DESIGNING A USER INTERFACE FOR LIVE-STREAMING SHOPPING FEATURE BASED ON INTEGRATION OF CUSTOMER JOURNEY MAP AND ELECTRONIC SERVICE QUALITY (E-SERVQUAL) IN YOGYAKARTA.

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Name : Khusnul Qurrota Ain

Student Number: 18522050

INTERNATIONAL UNDERGRADUATE PROGRAM
DEPARTMENT OF INDUSTRIAL ENGINEERING
FACULTY OF INDUSTRIAL TECHNOLOGY
UNIVERSITAS ISLAM INDONESIA
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AUTHENTICITY STATEMENT

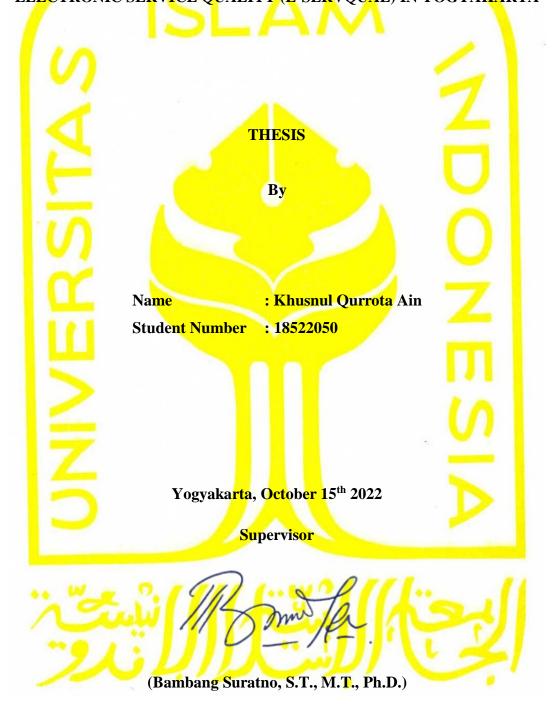
In the name of Allah, I declare that this research entitled "DESIGNING A USER INTERFACE FOR LIVE-STREAMING SHOPPING FEATURE BASED ON INTEGRATION OF CUSTOMER JOURNEY MAP AND ELECTRONIC SERVICE QUALITY (E-SERVQUAL) IN YOGYAKARTA" is a work based on research that I did by myself except for the citation and summaries that have their sources listed. If in the future, this research is proven to violate the rules and intellectual property rights, I am willing to accept the sanctions by Universitas Islam Indonesia.

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Khusnul Qurrota Ain 18522050

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DESIGNING A USER INTERFACE FOR LIVE-STREAMING SHOPPING
FEATURE BASED ON INTEGRATION OF CUSTOMER JOURNEY MAP AND
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THESIS APPROVAL OF EXAMINATION COMMITTEE

DESIGNING A USER INTERFACE FOR LIVE-STREAMING SHOPPING FEATURE BASED ON INTEGRATION OF CUSTOMER JOURNEY MAP AND ELECTRONIC SERVICE QUALITY (E-SERVQUAL) IN YOGYAKARTA

By

Name : Khusnul Qurrota Ain

Student Number : 18522050

Was defended before the Examination Committee in Partial Fulfillment of the requirement for the bachelor degree of Industrial Engineering Department

Universitas Islam Indonesia
Examination Committee

Bambang Suratno, S.T., M.T., Ph.D.

Examination Committee Chair

Dr. Drs. Imam Djati Widodo, M. Eng. Sc.

Member I

Ir. Winda Nur Cahyo, S.T., M.T., Ph.D., IPM

Member II

Acknowledge by,

Head of Undergraduate Program in Industrial Engineering

Department of Industrial Engineering

Faculty of Industrial Technology

Universitas Islam Indonesia

(Ir. Muhammad Ridyan Andi Purromo, S.T., M.Sc., Ph.D., IPM.)

PREFACE

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ABSTRACT

Starting from technological advances, all users can be facilitated by online shopping through several marketplaces, with this marketplace providing features as one of the marketplace marketing strategies. This study used an open and closed questionnaire and obtained 135 respondents and used data from 100 respondents who are domiciled in DI Yogyakarta and then examined using a predetermined method. In this case, it is necessary to measure the level of satisfaction and service quality of these features, by knowing customer expectations and experiences. This study uses Electronic Service Quality and Importance Performance Analysis in calculating service quality measurements and the gap between customer interests and marketplace performance. With these results, a Customer Journey Map was created to get the initial CJM and recommendations for CJM based on the results of the attributes that are in quadrant 1 or quadrant, which is the main priority. The results show that there are 5 dimensions of E-servqual that can be profitable but still have the main priority for improvement based on the IPA quadrant, as well as changes in CJM in all phases but only for some key components.

Keyword: Customer Journey Map, Electronic Service Quality, Importance Perfomance Analysis, Live-streaming Shopping, Marketplace

TABLE OF CONTENTS

PREFA	CEii
ABSTR	ACTiv
TABLE	OF CONTENTSv
TABLE	OF FIGUREviii
TABLE	OF LISTx
СНАРТ	ER I INTRODUCTION1
1.1 Bacl	kground of The Problem1
	olem Formulation4
	arch Objective4
1.4 Scop	oe of Research5
	earch Benefit5
1.6 Thes	sis Structure6
	ER II LITERATURE REVIEW9
2.1 Ded	uctive Study9
2.1.1	Marketplace9
2.1.2	Service Management
	Electronic Service Quality Method (E-Service Quality)10
	Customer Satisfaction
2.1.5	Importance Performance Analysis (IPA)
2.1.6	Customer Journey Mapping
	User Interface
	ctive Study17
CHAPT	ER III RESEARCH METHOD40 earch Objective40
3.1 Rese	arch Objective40
3.2 Rese	earch Data Collection Methods40
3.2.1	Customer Journey Maps40
3.2.2	E-servqual58
3.2.3	Correlation Between CJM and E-Servqual63
3.3 Type	e Data Collection77
3.4 Popi	ılation and Sample77

3.5 Research Flow	78
CHAPTER IV DATA COLLECTING AND PROCESSING	81
4.1 Customer Journey Mapping	81
4.1.1 Characteristics of CJM Respondents	81
4.1.2 Designing Initial Customer Journey Map	100
4.2 Electronic Service Quality	113
4.2.1 Characteristics of Respondents	113
4.2.2 Validity Test	119
4.2.3 Consumer Interest (Expectation) Validity Test	120
4.2.4 Consumer Performance Validity Test	123
4.2.5 Reliability Test	127
4.2.6 Electronic Service Quality Data Processing	128
4.2.6.1 Efficiency	128
4.2.6.2 System Availability	128
4.2.6.3 Fulfillment	
4.2.6.4 Privacy	
4.2.6.5 Responsiveness	
4.2.6.6 Compensation	
4.2.6.7 Contact	
4.2.7 Overall Gap Value	133
4.2.8 Marketplace Service Quality Calculation	138
4.2.9 Pengolahan Data Importance Performance Analysis (IPA)	139
4.2.10 Division of Attributes Based on Cartesian Diagrams	140
4.3 Proposed Customer Journey Map Design	
4.4 Proposed User Interface Design	136
4.4.1 Recommended Category Interface	
4.4.2 Payment Interface Recommendations	137
4.4.3 Compensation Interface Recommendations	138
4.4.4 Live-streaming Page Interface Recommendations	139
4.4.5 Live-streaming Interface Recommendations	141
CHAPTER V DISCUSSION	156
5.1 Customer Journey Mapping Design Analysis	156
5.2 Analisis Gap Electronic Service Quality (E-SERVQUAL)	158
5.2.1 Analysis of the Gan between Importance and Performance	158

5.2.2 Marketplace Service Quality Analysis	163
5.3 Analisis Importance Performance Analysis (IPA)	164
5.4 Analysis of Customer Journey Mapping Design Proposals	168
5.5 Analysis of Proposed User Interface Design	171
CHAPTER VI CONCLUSIONS AND SUGGESTIONS	173
6.1 Conclusion	173
6.2 Suggestion	174
REFERENCES	X
APPENDIX	xiii



TABLE OF FIGURE

Figure 1. 1 Average Monthly E-Commerce Web Visits in The Second	Quarter Of
2020	2
Figure 2. 1 Quadrant Importance Performance Analysis Source: Martilla	and James
(1977)	13
Figure 3. 1 Research Flowchart	78
Figure 4. 1 Graph of Respondents by Gender	81
Figure 4. 2 Graph of Respondents by Age	82
Figure 4. 3 Graph of Respondents by Domicile	
Figure 4. 4 Graph of Respondents by Occupation	83
Figure 4. 5 Graph of Respondents by ordered on livestream	84
Figure 4. 6 Graph of Respondents By Number of Uses	
Figure 4. 7 Customer Action in Discover Phase	86
Figure 4. 8 Verbatim in Discover Phase	86
Figure 4. 9 Pain Point in Discover phase	87
Figure 4. 10 Goals in Discover phase	87
Figure 4. 11 Emotion in Discover Phase	88
Figure 4. 12 Touchpoint in Discover phase	
Figure 4. 13 Ideas/Opportunities in Discover phase	89
Figure 4. 14 Verbatim in Consider Phase	89
Figure 4. 15 Customer Action in Consider phase	
Figure 4. 16 Pain Points in Consider phase	90
Figure 4. 17 Goals in Consider phase	90
Figure 4. 18 Touchpoint in Consider phase	91
Figure 4. 19 Emotion in Consider phase	91
Figure 4. 20 Ideas/Opportunities in Consider phase	
Figure 4. 21 Verbatim in Purchase phase	92
Figure 4. 22 Customer Action in Purchase phase	92
Figure 4. 23 Pain points in Purchase phase	92
Figure 4. 24 Touchpoint in Purchase phase	93
Figure 4. 25 Goals in Purchase phase	
Figure 4. 26 Emotion in Purchase phase	
Figure 4. 27 Ideas/Opportunities in Purchase phase	94

Figure 4. 28 Verbatim in Wait for Delivery phase	.94
Figure 4. 29 Customer Action in Wait for Delivery phase	.95
Figure 4. 30 Pain points in Wait for Delivery phase	.95
Figure 4. 31 Goals in Wait for Delivery phase	.95
Figure 4. 32 Emotion in Wait for Delivery phase	.96
Figure 4. 33 Touchpoint in Wait for Delivery phase	.96
Figure 4. 34 Ideas/Opportunities in Wait for Delivery purchase	.96
Figure 4. 35 Verbatim in Receive Product phase	.97
Figure 4. 36 Customer Action in Receive Product phase	.97
Figure 4. 37 Pain Point in Receive Product phase	.98
Figure 4. 38 Goals in Receive Product phase	.98
Figure 4. 39 Touchpoint in Receive Product phase	.98
Figure 4. 40 Emotion in Receive Product phase	.99
Figure 4. 41 Ideas/Opportunities in Receive Porduct Phase	.99
Figure 4. 42 Graphs of Respondents by Gender	
Figure 4. 43 Graphs of Respondents by Age	.14
Figure 4. 44 Graph of Respondents by Domicile	.15
Figure 4. 45 Graphs of Respondents by Job	16
Figure 4. 46 Graph of Respondents by Number of Uses	16
Figure 4. 47 Graphs of Respondents by Types of Items Purchased	17
Figure 4. 48 Graphs of Respondents Based on Why To Use Marketplace1	18
Figure 4. 49 Graphs of Respondents Based on Marketplaces Used1	19
Figure 4. 50 Diagram Importance Performance Analysis (IPA)1	40

TABLE OF LIST

Table 2. 1 Inductive Study	17
Table 3. 1 Design Questionnaire of CJM	41
Table 3. 2 Research Likert Scale	58
Table 3. 3 Design Questionnaire of E-Servqual	59
Table 3. 4 Correlation of CJM and E-Servqual	63
Table 4. 1 Initial Customer Journey Map	100
Table 4. 2 Test the Validity of Consumer Interests (Expectations)	120
Table 4. 3 Marketplace Performance Validity Test	
Table 4. 4 Questionnaire Reliability Test	127
Table 4. 5 Value Gap Dimension Efficiency	128
Table 4. 6 Value Gap Dimensions System Availability	129
Table 4. 7 Value Gap Dimensions fulfillment	
Table 4. 8 Value Gap Dimensions of Privacy	
Table 4. 9 Value Gap Dimensions of Responsiveness	131
Table 4. 10 Compensation Dimension Gap Value	132
Table 4. 11 Contact Dimension Gap Values	132
Table 4. 12 Ranking of Each Attribute's Overall Gap Value	133
Table 4. 13 Overall Gap Value Rankings Of Each Dimension	138
Table 4. 14 Calculation of Service Quality	
Table 4. 15 Kuadran I Diagram Kartesius	140
Table 4. 16 Kuadran II Diagram Kartesius	141
Table 4. 17 Kuadran III Diagram Kartesius	
Table 4. 18 Kuadran IV Diagram Kartesius	143
Table 4. 19 Rekomendasi Customer Journey Map	144

CHAPTER I

INTRODUCTION

Chapter I discusses the scope of the Introduction, which contains why the author chose to research the quality of the services chosen, and how the quality of live shopping services in online transactions is formulated. The introduction also describes the formulation of the problem that will become or create the research question, the purpose of the study, the limitations of the problem, and the systematics of the research.

1.1 Background of The Problem

It is started from technological advances that facilitated users by the existence of online shopping through several large marketplaces that have entered Indonesia. This is evidenced by the research conducted "The state of e-commerce app marketing 2022" that Indonesia is number three after Brazil and India. This is also influenced by the increase in the number of applications installed on android phones, increasing by 70% in the period from January 2020 to July 2022. With rapid growth, of course, in 2022, the government, under the leadership of President Jokowi, targets 20 million MSMEs to penetrate the local market. During the Covid-19 pandemic, there have been 17.5 million MSME players who have entered the digital ecosystem. This achievement is not enough and must be improved. The target is 2023; 24 million MSMEs will enter the marketplace and 30 million in 2024. Johnny, as the Minister of Communication and Informatics of Indonesia Johnny stated that digitalization has become a solution for MSME and cooperative actors to survive and grow and even develop in the midst of a difficult situation. The government is taking advantage of the post-pandemic momentum to encourage the acceleration of digital transformation, helping all MSMEs can also participate in the development of digital technology and follow all renewable strategies from the marketplace (Nanda, 2021).

Entering 2022, the development of digital technology in a marketplace is also rapidly making a variety of new business strategies that are none other than utilizing between selling in a marketplace and the launch of Live shopping, in which previously sellers only installed a row of information, attractive images, and several more added videos on the sales page. Live shopping is a buying and selling

system that is carried out directly through an online platform. As a person who sells or offers goods, you can communicate directly with consumers. Marketplaces in Indonesia that use live-streaming shopping were sparked by Alibaba e-commerce, which was launched first through Lazada Indonesia, using the live-streaming shopping platform, Taobao. Livestreaming shopping came and then expanded in 2021, which based on the pandemic situation which increased from 13.6% in 2019 to 19.5% in 2021. Marketplace platforms in Indonesia according to Poll (JakPat) show the most user results as the survey results below: (Lita, 2022)

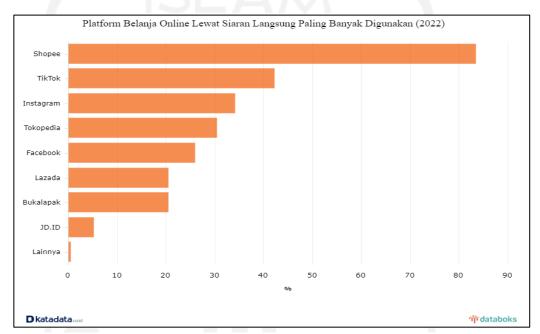


Figure 1. 1 Average Monthly E-Commerce Web Visits in The Second Quarter Of 2020

Source: Data books, 2022

From the survey results, Shopee users dominate the most users in Indonesia from the data collected in 2022, which is as high as 83.4%. Tiktok, which is the latest marketplace launched in Indonesia, ranks second, with a percentage of 42.2%. Instagram, which is a social media and can also be a medium for live-streaming shopping, made Instagram get third place with a percentage of 34.1%. Followed by Tokopedia with 30.4%, with an insignificant difference from Instagram, followed by the existence of Facebook social media, which has a percentage of 25.9%. As well as for Lazada and Bukalapak, it has the same percentage gain of 20.5%. In the last position, it fell to JD.ID with 0.5% of the percentage (SImanjuntak, 2022).

Yogyakarta is one of the regions with the most online buyers: Depok, South Jakarta, Sleman, Padang, Yogyakarta. These 92 million users are Gen Z or millennials. Seventy-five percent of them regularly shop online, with a survey explaining that household groceries increased 3 times per year, health products such as masks, and cleaners increased 3 times per year, pet food and pet care products increased 3 times, books increased up to 2.5 times, and household carpentry increases up to 2.5 times (Dinisari, 2021).

Customer interest in conventional sales is different because sales by livestreaming shopping have a level of direct interaction between sellers and consumers, which can provide direct feedback on the product in terms of overall condition and appearance directly. According to Chen (2017), real-time interactions with streamers reinforce the consumer's enthusiasm to jump in and buy directly.

Based on previous research, live-streaming shopping has an influence on the attractiveness or interest of researcher customers sun, et al (2019) research conducted through platforms Taobao.com, JD.com, Mogujie.com, and Sina Microblog explained that product purchases are influenced from the perspective of information technology affordability which explains that affordability, metavoicing, and guidance. And according to research conducted by Tong (2017), it is explained the influence of attractiveness or interest of customers on a live-streaming shopping results in that the details of a product, interaction, and authenticity of a product in real-time videos can increase consumer buying interest and it can also increase customer trust in research is also important in increasing a sense of closeness between sellers and buyers.

In live-streaming shopping in Marketplace, there are several cons to its use, especially with the process which is different from conventional online shopping, live streaming broadcasts often display a chat window next to the streaming video. but not all users will see the clear explanation from the host or presenter, and the absence of mixed results or products (Thomas, 2022).

The need to know the performance of digital platforms, especially marketplaces. In this research, the priority is to improve live shopping services which are quite new with the background of the problem of differences in customer experience, interests, and fairly rapid growth, which makes me as a researcher believes in this. There is a growing interest in using live-streaming shopping within

the market. Basically, live-streaming shopping is a new thing, and well developed, and the marketplace can maximize the use of live shopping and can be fully accepted by customers. If the marketplace wants to improve the quality of live-streaming shopping feature and the customer can be fully satisfied what the live-streaming shopping feature, researchers need to know the customer experience, and also provide a suggestion based on what the customer feels if the marketplace can't make the customer fully satisfied, it can somehow become a problem. Because the investment will not be optimal.

With the background described, this study uses an analysis of customer satisfaction with the Electronic Service Quality (E-Servqual) method to facilitate shopping, purchasing, and distribution activities effectively and efficiently (Chase, Jacobs, & Aquilano, 2006). With the results of the gap between performance and interests, it is visualized through Importance Performance Analysis (IPA), the results obtained will be correlated with Customer Experience using the Customer Journey Map (CJM). Knowing the service attributes that become top priority becomes a basis for the user interface to be designed because each user interface requires a user experience, in this study obtained from CJM results that have been analyzed from IPA results..

1.2 Problem Formulation

Based on the description above, the author found the problems of this research would be:

- 1. How to improve the customer experience on the live streaming shopping feature in Marketplace?
- 2. Which attributes in E-Servqual are the top priority for an improvement on the live streaming shopping feature in Marketplace according to IPA?
- 3. How to design the user interface in accordance with the needs of the live streaming shopping feature in the Marketplace in improving service quality?

1.3 Research Objective

The objectives of this research are as follows:

1. To improve customer journey mapping of live shopping features based on customer expectations on the Indonesian Marketplace.

- 2. To find out what are the important research attributes to improve and improve to suit the wishes of consumers, the Importance Performance Analysis (IPA) method.
- 3. To design recommendations for the Indonesian marketplace user interface to help customers easily understand and use the live shopping feature

1.4 Scope of Research

There are some limitations of this research to focus on the main objectives; there are limitations to the problems applied in this study, namely:

- Data collection was carried out by distributing questionnaires using google form media at this time so that researcher could reach Respondents widely to a random sample using an online questionnaire.
- Data processing is carried out using a Customer Journey Map (CJM), Electronic Service Quality (E-Servqual), and Importance Performance Analysis (IPA).
- 3. The time for taking questionnaire data on the factor of customer expectations affecting buying interest was carried out from 16th September 2022 19th September 2022, then also collect the data was carried out to find out customer satisfaction with the live shopping features and services on the Marketplace, which was held on 16th September 2022 19th September 2022.
- 4. The object of this study is the marketplace of only customers in certain marketplaces, namely Shopee, Tiktok, Tokopedia, and Lazada.

1.5 Research Benefit

The expected benefits to be obtained from this study are as follows:

1. For Companies

The results of the study can be used by relevant agencies to apply and use the results of this study to evaluate or become one of the input considerations in improving the quality of online transaction services to their customers so that it can help in improving the performance of the marketplace.

2. For Writers

This research can be new knowledge for authors in analyzing and knowing the influence of the quality of live shopping services in a marketplace. In addition, it also allows the author to apply the science of Service Management and Industrial Statistics in it.

3. For Researchers

The results of the study can be used as a reference for further research related to service quality and customer satisfaction.

1.6 Thesis Structure

The following is the systematics of the Undergraduate Thesis, which is divided into six chapters so that the preparation becomes more structured. The series of thesis structure is as follows:

CHAPTER I INTRODUCTION

This chapter briefly describes the background of why this research is done and elaborated to be the basis for which it will be researched with the data and references obtained. The background of this research is because it looks at the high number of customers in the use of the marketplace and the use of live shopping features in the buying interest of customers. Researchers want to know the quality of service based on customer expectation data through the live shopping feature and the results of electronic service quality (Eservqual) after shopping. In addition, this chapter also explains the purpose of this study in assessing and analyzing the level of customer satisfaction and the limitations of this study in conducting an analysis of service quality during shopping using the live shopping feature. The benefits that will be provided to marketplace companies and possibly other parties related to the quality of service and customer satisfaction will also be described in this chapter. Finally, this chapter will also explain the structure of this study.

CHAPTER II LITERATURE REVIEW

This chapter contains some literature or basic theories from journals, books, websites, and other references related to the quality of service to a marketplace, customer satisfaction, and other

theories related to this research to support research and as a reference for problem-solving to find out what methods are appropriate to use in this study, as well as variables, parameters, and what items, which must be considered in assessing the quality of service and customer satisfaction. This chapter will also contain an inductive study, which is a brief description of previous studies that are similar and related to customer satisfaction with Marketplace services in Indonesia.

CHAPTER III RESEARCH METHODOLOGY

This chapter contains briefly and clearly the flow or steps of research to be carried out, including explaining the object of research studied, the type of data to be used, the stages of research, the tools used during the research, data collection methods, data processing methods, data analysis methods. Containing the object of research where the object of this research is Live-streaming Shopping on the Marketplace; the data used is the result of filling out an electronic service quality questionnaire with the target Respondents being people who have shopped and experienced the e-service Marketplace and the stages that have been carried out in the research concisely and clearly. This method includes a data collection method carried out using questionnaires with google form media, and data processing using SPSS to process tests carried out in this study, such as data reliability tests, data validity, and gap analysis. As well as customer journey mapping, quadrant IPA, and user interface which are used as a visualization tool for customer shopping journeys during live-streaming shopping on the marketplace

CHAPTER IV DATA COLLECTING AND PROCESSING

This chapter contains the process of collecting and processing data during the research, in this study using a questionnaire with google form media. The collected data will then be processed using such as data reliability tests, data validity, and gap analysis,

and what has been determined is by testing. The results of data processing will be interfaced and become a reference in the preparation of Chapter V, namely discussion.

CHAPTER V RESULT AND DISCUSSION

This chapter contains an assessment of the results of research data processing and analysis that has been carried out based on data processing. In this chapter, the discussion of processing includes an explanation of the results of calculations using the SPSS software obtained. Then, conducting analysis and discussion related to the results of data processing carried out in addition to being supported by data and calculations carried out is also strengthened by strengthening theories and analysis related to the design of existing customer journey mapping, gap analysis, quadrant IPA and recommendations for customer journey mapping and user interface based on the IPA results.

CHAPTER VI CONCLUSION AND RECOMMENDATION

The last chapter contains conclusions and suggestions. Conclusions will contain the results of the research, while suggestions contain input or improvements for related parties or for subsequent researchers.

CHAPTER II

LITERATURE REVIEW

This chapter contains the basic theory needed in conducting research related to service quality and customer satisfaction. Descriptions of previous research that have been conducted by other researchers and are still related to research on service quality and customer satisfaction are also contained in this chapter.

2.1 Deductive Study

The research was conducted based on technological advances and features that are always provided by the Marketplace as an effort to improve sales services and also the existence of a pandemic disaster that took place and resulted in the marketplace experiencing a rapid increase in the number of users and transactions due to the physical distancing policy and carrying out all its activities at home to prevent the spread of Covid-19 transmission. The increasing use of live-streaming in all marketplaces as a feature to meet needs where customers need more attractive interactions and clear product reviews, causing the author to want to assess and analyze the quality of services of the marketplace live-streaming feature based on the satisfaction of consumers who have transacted through the marketplace. To understand the concept of the research conducted, the author will explain some of the important points that exist.

2.1.1 Marketplace

A marketplace is an internet-based online media where business activities and transactions between buyers and sellers are carried out. Buyers can find as many suppliers as possible with the desired criteria to obtain according to the market price. Meanwhile, suppliers/ sellers can find out the companies that need their products/services. Basically, the marketplace is almost the same as the traditional market that brings together various sellers with many buyers who make transactions, and it's just that the marketplace is in the online realm that offers efficiency in transactions. The marketplace itself can be divided into four types, namely B2B (business to business), B2C (business to customer), C2C (customer to customer), and C2B (customer to business). (Franc, 2019)

2.1.2 Service Management

In the Big Dictionary of Indonesian, quality is defined as the degree of whether something is bad or a grade. According to Philip B. Corsby (1986), quality is also defined as the level of intelligence, proficiency, and so on. According to Gasperz (1997), quality management can be said to be the entire activity as a whole of the management function that determines the improvement of the ability of quality through quality management tools.

2.1.3 Electronic Service Quality Method (E-Service Quality)

Electronic service quality (e-servqual) is a development of a method of service quality (servqual) method where the subject applied in the method also developed from traditional, which then penetrated into electronic media. The service quality method itself is a method used to determine the quality of service of a service through the identification of a gap between the perceptions expected by consumers and the real conditions felt by consumers. According to Zeithaml, Parasuraman, and Maholtra (2002) is defined as the ability of a site to provide effective and efficient facilities for online shopping, online purchases, and the acquisition of goods or services.

In the E-Service Quality research conducted by Zeithaml, Parasuraman and Maholtra (2005), it is explained that there are dimensions needed that are used to identify the five dimensions of service quality used in measuring service quality. The traditional model was developed into seven dimensions into two parts, namely Electronic Service Quality (E-ServQual) and Electronic Recovery Service Quality (E-RecServQual), with details as follows:

Electronic Service Quality (E-ServQual):

- 1. Efficiency: speed and ease of accessing the site.
- 2. System availability: all technical functions of the site that run correctly.
- 3. Fulfillment: how the site meets expectations or expectations in all sorts of transactions, delivery and availability of goods or services.

- 4. Privacy: provides security guarantees for information or personal data of customers
- 5. Responsiveness: How sites Respondents quickly
- 6. Compensation: How management compensates customers in case of problems
- 7. Contact: Availability of customer service on the site by telephone or representative in an area

The use of E-servqual is a decision to evaluate a service provided on the Internet network, where in this research case study uses a media marketplace, namely a digital platform using seven dimensions, namely efficiency, system availability, fulfillment, privacy, responsiveness, compensation, and contact. It is different from traditional service quality by using 5 dimensions, namely Tangible (tangible), Empathy (empathy), Reliability (belief), Responsiveness (responsiveness or responsiveness), and Assurance (reliability). The service quality method, it is in the form of direct physical and direct service delivery without an internet network medium.

With differences in several dimensions such as efficiency, system availability, fulfillment, privacy, responsiveness, compensation and contact. Explain in detail the differences in the services provided, such as efficiency which explains in more detail the ease of access and use of live-streaming shopping, in system availability having all the technical functions of the site running correctly is a development of tangibles, and for fulfillment which is fulfillment expectations or expectations in all kinds of transactions, delivery and availability of goods or services including the development of empathy in traditional servqual, for responsiveness is a dimension that is also owned by traditional servqual, and the last is compensation is a development of the assurance dimension. However, privacy and contact are dimensions that are owned by e-servqual to provide security guarantees for customer personal information or data on the internet network, it is very easy to know and use personal data, as well as the availability of customer service on the internet site.

2.1.4 Customer Satisfaction

Customer satisfaction is the most important factor in various business activities. Customer satisfaction is the consumer's response to the evaluation of the perceived discrepancy between the previous expectations and the perceived performance of the product. According to Gerso Ricard in Sudarsito (2004) states that "Customer satisfaction is the customer's perception that his expectations have been met or exceeded." Customer satisfaction is the customer's assumption that by using a certain company's product and its expectations have been fulfilled.

2.1.5 Importance Performance Analysis (IPA)

According to Martilla and James (1977) in Sulaiman et al. (2018), Importance Performance Analysis (IPA) is a method of assessing service quality based on the level of importance and performance of a service by the end user. The concept of the Importance Performance Analysis method was developed by the service quality method, where the e-servqual concept analyzes gaps or gaps from customer expectations or expectations with consumer reality or perception. At the same time, the concept of the Importance Performance Analysis method analyzes the level of importance of certain variables based on the performance of an organization so that the organization can know which variables are important for noticed in order to be more valuable to the organization in the eyes of customers. The results of the analysis of the Importance Performance Analysis method are depicted through a two-dimensional graph represented by the X and Y axes, where X represents the

company's performance appraisal score, and Y represents the consumer interest assessment score so that it will four quadrants are obtained in the graph.

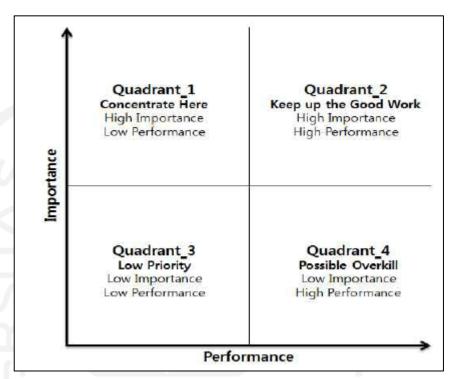


Figure 2. 1 Quadrant Importance Performance Analysis Source: Martilla and James (1977)

1. Quadrant A Concentrate Here (Top Priority)

This quadrant has a high level of importance but in reality, the performance perceived

by customers is still low and unsatisfactory. This quadrant is considered a very important factor, so the factors contained in this quadrant can be the top priority of the improvements that will be made by the company.

2. Quadrant B Keep Up the Good Work

This quadrant has an equally large level of importance and performance, so it is considered important and expected that it has successfully met customer expectations or expectations.

3. Quadrant C Low Priority

This quadrant is the opposite of quadrant B, where this quadrant has the same low level of importance and performance. Factors that fall within this quadrant have a low level of satisfaction but are not considered too important to the customer, so they do not need to be prioritized too much by the company.

4. Quadrant D (Possible Overkill)

This quadrant has a low level of importance but high performance, so it is considered excessive.

2.1.6 Customer Journey Mapping

According to Clinehens (2020), there are several steps that need to be taken in designing a customer journey mapping, including the following:

1. Step 1 – Research

Research is the initial stage in designing CJM. This stage is necessary to define the purpose of designing CJM, and defining each question that will be needed in data collection. In data collection, there are several ways that can be done, namely conducting interviews, surveys, and Focused Groups Discussions. In this study, data collection was carried out through surveys using google forms in the form of questionnaires.

2. Step 2 – Define your persona

The next stage is to define the persona, which we often know as demographic data, where researchers need to find out which customers are male or female, what are the jobs of customers, how often they shop through the marketplace, and what types of goods they often buy through the marketplace.

3. Step 3 – Populate the Think, Do, Stop Model

The next thing to do is to study the data that has been obtained and then design it to model CJM. In designing CJM using phase and key components intended for the marketplace, according to Clinehens (2020). As for the phase used:

a. Discover

The initial stage is discovered when customers search the marketplace based on the goods they are going to buy.

b. Consider

Consider is the process of customers considering making transactions based on several things, such as price, quality, and trust.

c. Purchase

Purchase is the process of customers making purchases and checkout items to be purchased and making payments.

d. Wait for Delivery

At this stage, the customer waits for the goods to arrive at the intended address and checks periodically regarding the presence of the goods through the receipt number provided.

e. Receive and wear/use the product

This stage is the final stage, where the customer gets the desired item and uses the item to ensure that the size, color, and function is correct.

The key components used are as follows:

a. Verbatim (Think)

Customer verbatim things that are said according to the customer during or have experienced practice.

b. Customer Actions (Do)

Customer actions are steps taken by the customer before/during/after experiencing the experience.

c. Pain points (Stop)

Customer pain actions are obstacles felt by customers that can result in dismissing the customer's intention to shop.

d. Goals

Customer Goals are goals that customers want to achieve from every stage they feel.

e. Touchpoints

Customer touchpoints are any things or tools that customers interact with while interacting with the marketplace.

f. Emotional Journey

The emotional journey is related to the visualization of the customer's reaction to the feelings he feels during the experience

g. Ideas/Opportunities

Ideas/opportunities are related to the customer's desire for how the marketplace should be to the pain points they feel.

2.1.7 User Interface

UI (user interface) is an interface design that is more focused on the beauty of an interface, good color selection, and other things that make the e-commerce web interface more attractive. User Interface is a design that connects human and computer interactions, so that humans can complete a goal. It is mentioned that the User Interface (UI) creates an emotional bond with the user through an attractive and beautiful design. Usually, the UI will be implemented or done after the UX is complete by determining the layout design, logo, colors, typography, and other things to beautify your e-commerce web (Pratama & Cahyadi, 2020).

2.2 Inductive Study

Inductive Studies contain previous research journals related to this research topic. Some research journals are summarized in the following table

Table 2. 1 Inductive Study

No	Title, Author, Year	Background	Methodology	Result	Conclusion
1.	Analysis of the	The purpose of this study	Research methods	The result of the study	The conclusion can
	Quality of Call	is to help the Call Center	using Service Quality	is that the quality of	be seen from the
	Center Project	Project Kartu Prakerja	analysis from the results	service provided by the	results of the
	Kartu Prakerja	Services at Mitracomm	of questionnaires given	pre-employment project	cartesian diagram on
	Services at	Ekasarana for the level of	to customers or	call center has not met	the IPA method,
	Mitracomm	service quality in	participants to find out	the expectations of	quadrant A, as can be
	Ekasarana to	determining the measure	the GAP value between	participants because the	seen for easy access
	the Satisfaction	of customer satisfaction	perception and	quality value (Q) is	to call center
	of participants	service quality which has	expectations and the	calculated as the value	services, can be
	Using Servqual	an impact on the	Importance and	of service quality which	accessed anytime
	and	performance of	Performance Analysis	is very large in the	and anywhere is the
	Importance-	employees of the Pre-	method to find out the	tangible dimension of	top priority.
	Performance	Employment Card	category of an attribute.	0.766, and the smallest	
	Analysis (IPA)	Project Call Center.		is the reliability	
	Methods			dimension of 0.769.	

No Title, Author, Year	Background	Methodology	Result	Conclusion
(Komariah, Rimawan, Lestari, & Handayani, 2021)	N ISL	AM {	With the average quality of service in each dimension is 0.8.	
2. Customer Journey Mapping of a Public Mobile Application: The Case Study of a State Electricity Enterprise (Sarawut & Campiranon, 2021)	societal needs and expectations. Until now, key performance has become an important indicator for government-owned companies. So, the	The method used in this study is Customer Journey Mapping as a customer journey mapping		Despite the changes, this government- owned company wants to meet customer needs and increase satisfaction with services. And this research wants customers to understand the use of services both online (Application) and offline.

No	Title, Author, Year	Background	Methodology	Result	Conclusion
		design of customer	$\Delta \lambda \lambda$		
		journey mapping.			
3.	Application of	The increase in tourist on	Conducting research	The results of this study	The conclusions that
	Revised	tourism does not rule out	using questionnaires	resulted in 453	can be seen in this
	Importance-	the possibility of	based on knowing the	Respondents with	study are more aimed
	Performance	increasing the risk to the	quality of e-travel	37.5% male	at business leaders in
	Analysis to	results of the tourist	services by providing	Respondents and 62.5%	applying technology
	Investigate	experience. Because with	questions consisting of	female Respondents,	to support and
	Critical	the results of the review	5 aspects of quality,	explaining that the five	improve the quality
	Service	provided by the tourists,	namely information,	aspects of the	of service by
	Quality of	it can also affect the	security, website	questionnaire having	popularizing
	Hotel Online	decision of the next	functionality, customer	the highest weight on	information
	Booking (Jou	tourist. And hotel	relationships, and	the web system do not	technology.
	& Day, 2021)	customer satisfaction is	responsiveness.	provide personal	However, with the
		created by loyalty.		information, is easy to	ease of service in a
		According to research,	w 2 / // 10	find information, the	web system, the
	/	credibility, the vagaries	11/2	site strongly protects	hotel also provides
		of services, technological	. 1 12 0	the security of credit	and convinces
		contradictions, and	البلس	cards, provides	customers of the

No	Title, Author, Year	Background	Methodology	Result	Conclusion
		technological insecurity have an effect on customer pad in purchasing hotel tickets online.		information related to the security of personal data, and provides accurate information.	security provided to customers. As well as with the performance allocated accordingly can help in improving online ordering services and the right promotion
4.	Importance Performance Analysis (IPA) of bus service attributes: A case study in a developing country (Esmailpour,	The high level of public transport customers in Tehran, Iran. Bus public transportation service is a case study that aims to identify gaps in the performance of its attributes.	Improving public bus transportation using the Performance Analysis (IPA) method to be able to identify gaps in the performance of attributes to interests. By combining with the Exploratory Factor	The results state that in the Performance Analysis (IPA), Quadrant I has a performance score of 2.49 with the presence of 6 attributes in it, Quadrant II has a performance score of	the needs of the comfort level by providing sufficient

No	Title, Author, Year	Background	Methodology	Result	Conclusion
	Aghabayk,		Analysis (EFA) method	2.69 with 1 attribute in	condition of the
	Vajari, &		used to identify key	its quadrant, Quadrant	buses that can be
	Gruyter, 2020)	0)	components and Cluster	III has a score	ensured to always be
			Analysis (CA) which is	performance of 3.81	clean, and facilities
			used to view results that	with 1 attribute in its	for people with
			have been reduced by	quadrant, and Quadrant	special needs. With it
		\mathcal{O}	heterogeneity effects.	IV has a performance	can help in
				score of 3.52 with 1	increasing customer
				attribute in its quadrant.	satisfaction with the
				For the results, EEF	use of public
				explained that there are	transportation.
				two components,	
				namely convenience,	
		\supset		reliability, comfort, and	
				safety. Finally, for CA,	
		W = 2/11/6.	w 2 / // 1.	it is classified as a	
		Tuni III	حما الم	sample that will be	
		"9 []]]]]	. []] [[]	continued to cover the	
				IPA.	

No	Title, Author, Year	Background	Methodology	Result	Conclusion
5.	Analysis Of	HNI.id is e-commerce	Data collection was	Based on validity and	Based on the
	HNI.ID E-	engaged in halal and	carried out using	reliability tests, all	calculation of e-
	Commerce	quality herbal products,	questionnaires after	statements are valid and	servqual, it can be
	Service	but in its implementation,	previously conducting	reliable. In the	seen that statement
	Quality on	there are still problems	interviews with several	calculation of e-	P17 has the largest
	User	found in the service	consumers and	servqual, it is known	gap and P5 has the
	Satisfaction	system for customers.	observations on	that the largest gap per	lowest e-servqual
	Using E-	Ecommerce services	operational activities.	item in the P17	value. TESQ
	Servqual	HNI.id are still limited in	Data processing using	statement (protected	calculations show
	(Megawati &	certain circles because	the electronic service	consumer personal	that the services
	Rubayati,	shopping in e-commerce	quality (e-servqual)	data) is -0.07 and the	provided today are
	2020)	HNI.id can only be done	method, which is	lowest e-servqual value	"very satisfactory".
		by customers who have a	identified using TESQ	in the P5 statement	The CSI calculation
		member ID number from	values to determine	(customers can leave e-	also shows that at
		the company	how the quality of	commerce easily) is 0.	this time, the
		W _ 2/11/6.	service, as well as using	Based on validity and	customer is satisfied
	/	Thui III	the customer	reliability tests, all	with the services
		"9 []]]]]	satisfaction index (CSI)	statements are valid and	provided. There are
			method	reliable. In the	six variable

No	Title, Author,	Background	Methodology	Result	Conclusion
	Year				
			$\Delta \lambda \lambda$	calculation of e-	statements that still
		10		servqual, it is known	have the highest gaps
				that the largest gap per	so improvements are
				item in statement P17	needed to improve
				(personal data of	the quality of service
				consumers is protected)	
				of -0.07, and the lowest	
				e-servqual value in	
				statement P5	
		Ш		(customers can leave e-	
				commerce easily).	
6.	The impact of	The study was conducted	The research method	In this study, the results	The conclusion of
	e-service	because researchers	was carried out using a	obtained were three	this study still
	quality and	wanted to find out	questionnaire to 3555	dimensions of e-service	requires
	customer	whether the quality of	online consumers in	quality, namely website	improvement
	satisfaction on	electronic services had an	Indonesia, which will	design, security/privacy	because this research
	customer	impact on customer	be used as structural	and fulfillment	is not able to be
	behavior in	satisfaction, customer	modeling for a	affecting the quality of	generalized because
	online	trust, and customer	dimension to be	e-service as a whole.	the research carried

No	Title, Author, Year	Background	Methodology	Result	Conclusion
	shopping (Rita,	behavior, building on the	analyzed using the e-	With the results of the	out analyzes the
	Oliveira, &	existing literature on the	service Quality	Website design	quality of online
	Farisa, 2019)	quality of electronic	dimension.	hypothesis 0.077 effect	store e-services in
		services in online		size score,	general, not based on
		shopping.		Security/privacy 0.057,	product segments
				and Fulfilment 0.329.	sold in online stores.
					And this study
					examines the direct
					influence of
		Ш			variables without
					considering the
)	potential effects of
				-	moderation between
					variables
7.	How live-	The increase in live-	Conducting surveys as a	The results of this study	From the research, it
	streaming	streaming is popular in	methodology in order to	began by testing the	was produced that a
	influences	China, and the increase in	be able to measure	impact of IT	large variable has an
	purchase	vendors selling in e-	models empirically,	affordability when	influence on buying
	intentions in	Commerce. Taobao 2018	with variables related to	shopping live-	interest, namely on

No	Title, Author, Year	Background	Methodology	Result	Conclusion
	social	launched an online	visibility (VI),	streaming. And from	the variable
	commerce: An	shopping scene that uses	metavoicing (ME),	the resulting on the	affordability of
	IT affordance	live-streaming features,	immersion (IM), Social	visibility variable is	visibility,
	perspective	and at the same time,	Presence (SP),	positively related to the	metavocing and
	(Suna, Shaoa,	sales increased to 100	Telepresence (TE), and	result ($\beta = 0.20$, p <	shopping guides.
	Lic, Guod, &	billion yuan in 2018.	Buying Interest (PUI).	0.001) and the presence	
	Niea, 2019)	Because of the ease of	By analyzing using	with the result ($\beta = 0.21$,	
		convenience, customers	SPSS to customers	p < 0.001); variable	
		want to interact directly	Taobao.com, JD.com,	Meta voicing is also	
		without waiting for a	Mogujie.com, and Sina	positively related to	
		reply via chat.	Microblog	immersion ($\beta = 0.20$, p	
				$<$ 0.001) and presence (β	
		Z		= 0.16, p <0.01); and so	
				is the affordability of	
				shopping guides	
		W 2/1///	W 2 / // 1/2	(immersion: = 0.26, p <	
	/	Emil II h		0.001; attendance: =	
		· 9 / · ·	. 1 12 0	0.40, p < 0.001). When	
			البيس	testing the hypothesis	

No	Title, Author,	Doglzonovad	Mathadalagy	Dogult	Conclusion
NO	Year	Background	Methodology	Result	Conclusion
			$\Delta \lambda \lambda$	results, it was found that	
		/^		R-squared intention	
		0)		with a result of 47%,	
				variable affordability of	
				visibility, affordability	
				of Meta voicing, and	
		(I)		affordability of	
				shopping guides	
				yielded 41%.	
8.	Measurement	The shift in consumer	Data collection used a	Respondents were	The degree of
	of e-service	consumptive behavior	questionnaire method	tested for validity and	conformity between
	quality from	from conventional to	consisting of 28 service	reliability which was	the level of
	user	online shopping was	attributes from seven	then found that the	importance and
	perceptions	triggered by the	dimensions of e-	results were valid and	satisfaction there is
	using the IPA-	emergence of online	servqual and filled out	reliable. At the level of	still a gap because
	Kano	transaction service	by 202 Respondents	conformity between the	the percentage does
	integration	providers with the C2C	using a questionnaire.	level of satisfaction and	not reach 100% as a
	model	model. Consumer	Data analysis using the	the level of importance,	result of the
	(Wahyuni,	satisfaction is one of the	Importance	the percentage does not	integration of the

No	Title, Author, Year	Background	Methodology	Result	Conclusion
	Gunawan, &	things that service	Performance Analysis	reach 100%, which	IPA-KANO method;
	Rahmawati,	providers must pay	(IPA) method, which is	means that there is still	it can be seen that the
	2019)	attention to because if	then integrated with the	a gap between the level	service that must be
		consumers are satisfied,	KANO method	of satisfaction and the	improved is the
		they will return to using it		level of importance felt	compensation
		in the future, and vice		by the user. In the IPA	dimension because it
		versa.		calculation, there are	has two attributes
				six attributes that are in	that are in the
				quadrant I, seven	quadrant of
		Ш		attributes are in	"improvement
				quadrant II, seven	priority".
				attributes are in	Meanwhile, when
				quadrant III and eight	viewed in the "keep
				quadrants are in	up the good work"
				quadrant IV. KANO	quadrant, it can be
		W = 2/1/1/60	w 2 / // 10	method shows that six	seen that the privacy
	/	Thui III	11/2	attributes are in the	dimension is a
		"9, " 3	. 1 12 0	attractive category,	dimension that the
				eight attributes are in	service must

No	Title, Author,	Background	Methodology	Result	Conclusion
NO	Year	Dackground	Wethodology	Result	Conclusion
			ΔM	the performance	maintain because it
		10		category, nine attributes	has three service
				are in the indifferent	attributes that are in
				category and four	the quadrant.
				attributes are in the	
				must-be category.	
				Based on the integration	
				of IPA and KANO, and	
				judging from the	
		Ш		dimensions of e-	
				servqual, it can be seen	
				that the service that	
				must be improved is the	
				compensation	
				dimension because it	
		w _ 2/11/6.	w 2 / // for	has two attributes that	
	/	Tuil III	11	are in the quadrant of	
		"9 []]]]]	. [] [2 0	"improvement	
				priority". Meanwhile,	

No	Title, Author,	Background	Methodology	Result	Conclusion
NO	Year	Dackground	Methodology	Result	Conclusion
			$\Delta \lambda \lambda$	when viewed in the	
		10		"keep up the good	
				work" quadrant, it can	
				be seen that the privacy	
				dimension is a	
				dimension that the	
				service must maintain	
				because it has three	
				service attributes that	
		Ш		are in the quadrant.	
9.	Analysis Of	Bhinneka.com is the first	Research is descriptive	The results of the	The overall level of
	Online Service	e-commerce site in	quantitative research.	calculation of the	Respondents'
	Quality (E-	Indonesia which was	The sampling technique	average comparison	expectations of the
	Servqual) Use	released in 1999 but was	uses a purposive	between consumer	quality-of-service
	Importance	ranked seventh in a	sampling technique	expectations and	Bhinneka.com was
	Performance	popular site in Indonesia.	with a total of 400	service performance	very good, as well as
	Analysis	Bhinneka.com has	Respondents. The data	resulted in an average	the level of
	Method on	complaints from	analysis method uses	performance of 77.8%	performance
	Bhinneka.com	consumers about the poor	descriptive analysis,	and an average	received by the

No	Title, Author, Year	Background	Methodology	Result	Conclusion
	(Nabila,	quality of services	Customers Satisfaction	expectation of 82.3%, it	Respondents, which
	Ariyanti, &	provided by	Index (CSI), and	shows that overall, the	was concluded to be
	Sumrahadi,	bhinneka.com. The	Importance	average performance	in a good category.
	2018)	number of complaints	Performance Analysis	level of Bhinneka.com	The CSI calculation
		slightly illustrates that	(IPA) based on e-	good. Based on the	proves the level of
		bhinneka.com still	servqual dimensions.	results of the CSI	customer satisfaction
		cannot satisfy its		analysis, it can be seen	with the quality-of-
		consumers, so there is a		that the average CSI	service
		need for a thorough		value is 77.96%, which	Bhinneka.com as a
		evaluation of service		means that overall, the	whole is relatively
		quality.		level of customer	satisfactory. It is
				satisfaction	known that there are
				Bhinneka.com in the	eight attributes that
		\supset		satisfied category. Gap	have the main
				analysis was also	priority to make
		W = 2/11/6.	w 2 / // 10	carried out and showed	improvements so
	/	Tuli II	11/2	that the average gap in	that the quality-of-
		"9, " 3	. 1 12 0	performance and	service
				expectation levels was -	

No	Title, Author,	Background	Methodology	Result	Conclusion
NO	Year	Dackground	Wethodology	Result	Conclusion
			$\Delta \lambda \lambda$	0.81 or equivalent to	Bhinneka.com
		//		5.5% and it was	improve.
		0)		concluded that overall,	
				the performance of	
				Bhinneka.com has not	
				been able to meet the	
				quality of service	
				expected by customers.	
				Analysis using IPA	
		Ш		shows that there are	
				eight attributes that are	
				the top priority for	
		Z		quality improvement	
		\supset		because they are in	
				quadrant I, nine	
		W 2/11/60	w 2 / // 1.	attributes fall into	
		Tuli III	حدا الم	quadrant II, eleven	
		"9, "	. 1 12 0	attributes fall into	
			البيس	quadrant III and five	

No	Title, Author, Year	Background	Methodology	Result	Conclusion
		/ ISL	AM	attributes fall into quadrant IV.	
10.	Importance-	Virtual reality golf center	Data collection used	The greatest average	The average value of
	Performance	is one of the sports	questionnaires filled out	value of importance	the greatest
	Analysis (IPA)	locations that are in great	by 371 virtual reality	was the tangible	importance is the
	of Service	demand by modern	golf center customers as	dimension of 3.87	tangible dimension,
	Quality for	people in filling their	Respondents. Data	followed by the	guarantee,
	Virtual Reality	spare time. Virtual reality	processing using SPSS	dimensions of	responsibility,
	Golf Centre	golf center services are	for Windows and data	guarantee (3.58),	empathy, and
	(Kwon &	considered important	analysis using the	responsibility (3.43),	responsiveness. The
	Chung, 2018)	because of the	Importance	empathy (3.41) and	greatest average
		competitiveness in the	Performance Analysis	responsiveness (3.13).	value of satisfaction
		industry that can be said	(IPA) method	The greatest average	is the tangible
		to be competitive. If the		value of satisfaction	dimension, empathy,
		customer has a positive		was the tangible	responsibility,
		experience in one	w 2 / // for	dimension (3.47)	responsiveness, and
	/	location, the company's	11/2	followed by the	guarantee. In the IPA
		image will be assessed as	. 1) 12 0	dimensions of empathy	calculation, six items
		good so that there is a		(3.39), responsibility	are obtained that are

No	Title, Author, Year	Background	Methodology	Result	Conclusion
No	Year	need to evaluate the importance and satisfaction of the quality of customer service of the virtual reality golf center.	Methodology	Result (3.19), responsiveness (3.06) and guarantee (3.00). In the calculation of the IPA, six items were obtained in quadrant I, namely facilities that are comfortable providing the latest equipment, customized responses, understanding customer needs, interior atmosphere, and modern facilities. These six items show high importance and satisfaction, these items indicate that the current	in quadrant I, five items are in quadrant III, and three items are in quadrant IV.
			•	management and	

No	Title, Author,	Background	Methodology	Result	Conclusion
NO	Year	Dackground	Methodology	Result	Conclusion
			$\Delta \lambda \lambda$	operations are adequate	
		//		for the appropriate	
		0)		climate. Five items are	
				in quadrant II, namely	
				employee kindness,	
				employee expertise,	
		(\mathcal{O})		immediate problem-	
				solving in case of	
				problems, quickly	
		Ш		Respondentsing to	
				customer needs, and	
				employee credibility.	
				The six items are in	
		\supset		quadrant III, namely the	
				individual interests of	
		W _ 2/1/1/6.	w 2 / // 1.	customers, notification	
	/	Tuli III	11	of service, clothing and	
		"9 []]]]]	. [] [2 0	appearance of	
				employees, positive	

No	Title, Author,	Background	Methodology	Result	Conclusion
NO	Year	Dackground	Wethodology	Result	Conclusion
		FRSITAS		attitude of employees, providing voluntary assistance, and promised time and service. And three items are in quadrant IV, which is to provide safe service, thinking in the context of customers,	
		Щ.		and voluntary responses	
11.	Analysis of	The Tomohon City	The data collection	Reliability tests and	The results of the
	Service	Population Office is one	method used a	validity tests were	study showed that
	Quality using	of the government	questionnaire	carried out and obtained	there were 20
	Servqual	agencies that serve the	consisting of 20	the results that	questions based on
	Method and	community in handling	questions based on	reliability tests and	servqual dimensions.
	Importance	civil documents such as	servqual dimensions	validity tests were	The results of the
	Performance	ID cards, birth	and filled out by 92	carried out, and	IPA analysis found
	Analysis (IPA)	certificates, death	qualified Respondents.	obtained the results that	that three attributes
	in Population	certificates, and so on.	Data analysis using	the questionnaire was	were in quadrant A,

No	Title, Author, Year	Background	Methodology	Result	Conclusion
	Department,	The number of	Importance	declared reliable and	five attributes were
	Tomohon City	complaints received by	Performance Analysis	the Respondents'	in quadrant B, seven
	(YuvinaTileng,	the Tomohon City	(IPA), whose queries	answers were declared	attributes were in
	Herry,	Population Office is	are based on servqual	valid. The results of the	quadrant C, and the
	Wiranto, &	interpreted as the need	dimensions	IPA calculation state	other five attributes
	Rudy, 2013)	for evaluation to find out		that there are three	were in quadrant D.
		how the quality of		attributes that are in	
		services has been		quadrant A (employees	
		provided so far.		who are given good	
		Ш		services, employees	
				serve the community	
				quickly, employees	
				have service ethics),	
				five attributes are in	
				quadrant B (employees	
		W _ 2/11/60	w 2 / // for	provide timely service	
	/	Thui III	11/2	to the community,	
		"9 []]]]]	. [] [2]	employees are always	
				ready to serve the	

No	Title, Author,	Background	Methodology	Result	Conclusion
NO	Year	Dackground	Methodology	Result	Conclusion
			$\Delta \lambda \lambda$	community, employees	
		//		are friendly and polite,	
		0)		employee uniform	
				attributes are outdated	
				and neat, adequate	
				parking area), seven	
				attributes are in	
				quadrant C (employees	
				provide accurate	
		Ш		information about	
				document processing,	
				employees are easy to	
		Z		contact, employees	
				ensure community data	
				is safe, employees have	
		.w 2/11/60	w 2 / // 1.	leeway in	
		Thui III	حدا الم	Respondentsing to	
		"9, " 3	. 1 12 0	public requests as	
			ع (بیس	Service users,	

No	Title, Author,	Background	Methodology	Result	Conclusion
NO	Year	Dackground	Methodology	Result	Conclusion
			ΔM	employees provide the	
		10		same services	
				regardless of social	
				status, clean office	
				building environmental	
				conditions, comfort of	
				waiting rooms	
				provided) and five	
				quadrants are in	
		Ш		quadrant D (not there	
				are mistakes made by	
				employees in the	
				document processing	
				process, if there are	
				community complaints,	
		.W = 2/1/160	w 2 / // 100	employees immediately	
	/	Thui III	11/2	Respondents,	
		"9 []]]]]	. 1) 12 0	employees have good	
				knowledge of document	

No	Title, Author, Year	Background	Methodology	Result	Conclusion
			$\Delta \lambda \lambda$	processing, employees	
		//		understand the needs of	
				the community as	
				service users, indoor	
				equipment is complete).	



Based on research that has been conducted previously by Komariah, Rimawan, Lestari, & Handayani (2021) said that the calculation of the GAP between perception and expectations and the Importance and Performance Analysis method is the top priority for customers in need or as users in a service. This is also emphasized in research that has a background in online hotel bookings explained by Jou and Day (2021) that knowing good service quality will get ease of service and security of service.

Previous research on live-streaming shopping by Suna, Shaoa, Lic, Guod, and Niea (2019) explained that this feature could increase buying interest from customers, but it does not rule out the possibility of many expectations or expectations desired by customers. Therefore, this research was answered from a study conducted in the same year by Wahyuni & Gunawan (2019), which used a quadrant of Importance Performance Analysis which explained the gap in customer expectations with the situation and explained how the level of satisfaction with it was.

From the studies that have been carried out by researchers, making this research can be compiled properly and differently from before, in determining how customer expectations of the live-streaming shopping feature service by visualizing it as has been done in previous research on different objects. Furthermore, from the understanding of previous research journals, it is known that the use of dimensions in the e-servqual methods became the basis for the formation of question attributes used to collect data from Respondents. This method is widely applied to analyze the quality of services in the service industry sector. The use of Importance Performance Analysis (IPA) method is also widely used to determine the position of each question attribute from each dimension so as to find out which attribute is the top priority for improving the service quality. In terms of research framework ,this study is described as follows:

CHAPTER III

RESEARCH METHOD

This chapter will explain the flow or steps of the research to be carried out, including explaining the research object under study, the type of data to be used, the research stages, the tools used during the research, data collection methods, data processing methods, to data analysis methods used in research.

3.1 Research Objective

The research conducted focused on analyzing the quality of live-streaming sales services on the Shopee, Tiktok, Tokopedia, and Lazada marketplaces based on consumer satisfaction. The dimensions of the e-servqual method are used for the preparation of question variables, and the method is used to find out the gap between consumer expectations and service performance. Then the Importance Performance Analysis (IPA) method is used to find out which variables of dimensions can be the top priority for improving live-streaming sales services in the marketplace. The subject of this study is a marketplace as an online interactive business forum used by the public for buying and selling transactions during the pandemic and after the pandemic, which can make it easier for customers to determine the best product with reviews directly on live-streaming.

3.2 Research Data Collection Methods

3.2.1 Customer Journey Maps

The data collection method for data supporting the design of Customer Journey Mapping (CJM) uses a CJM questionnaire whose statements are designed based on phase and key components. The questionnaire will be distributed using google form media and distributed through online platforms to reach more Respondents. Respondents to the CJM questionnaire Respondents chose several answer choices that suited them and gave an open statement. With detailed questions as follows:

Table 3. 1 Design Questionnaire of CJM

No	Phase	Key Compon ent	Question		Option
				Motivation	Want to buy the desired item for a gift
6		SL	AM	Motivation	Want to find a store that matches the desired one
CITA		Verbatim (Think)	What do you think about this phase?	Searches for App or websites	Find live- streaming shopping time at a store that sells products
(INIVED	Discove r			Searches for App or websites	Want to get the product that matches the review on a store's livestreaming shopping
	انساز ان	Customer Actions	Before you buy the items you want through live- streaming shopping, what are the actions you usually do?	Searches for App or websites	Looking at social media for the type of goods you are going to buy, is it doing livestreaming shopping?
				Searches for App or websites	Visit the website or marketplace application you are going to

No	Phase	Key Compon ent	Question		Option
C		SL	AM	Motivation Motivation	Search for product keywords in the marketplace See the top sellers for the product or store you are going to
DCITA				Motivation	Where to shop to do live-streaming shopping that is only in certain marketplaces
I INIVER		or doubts the you usually Pain feel before Points buying goo	some doubts or doubts that you usually feel before buying goods on the use of live- streaming	Searches for App or websites Searches for App or websites	It's hard to find a brand/store that has a good image and do live-streaming shopping Lack of live-streaming shopping video quality Admins who live
				Motivation	stream shopping are less clear in product explanations or reviews

No	Phase	Key Compon ent	Question		Option
				Motivation	Getting goods according to the purpose of buying them
0		SL	AM	Motivation	Get the goods you want with the many promos offered
IN/EDCITA		Goals	What are your goals for this phase?	Searches for App or websites	Find items that match what you want in the future from the quality and results of reviews on the appropriate live- streaming shopping
75	انيست		3 C (()	Searches for App or websites	Look for brands/stores that have high quality live-streaming shopping videos.
		Touchpoi nt	What media do you usually use in this phase?	Motivation and Searches for Apps or websites	Shopee TikTok Tokopedia Loop
			What feelings or emotions do	Motivation and Searches	Excited Neutral Unhappy

		Key			
No	Phase	Compon	Question		Option
		ent			
			you feel in	for Apps or	
			this phase?	websites	
					Added reminder
				Searches	feature that can
			A 4 4	for App or	be shared with
		SL	ΔM	websites	smartphone
16	\circ				calendar
				7	Categorizing of
	1			Searches	stores that are
11 (-				for App or	doing live-
			What are	websites	streaming
U) [your right		shopping
			inputs or		There is an
117	T .	Ideas/Op	expectations		explanation of the
IH		portunitie	for this phase		rating in the live
		S	based on how	Motivation	shopping
			you feel or	Motivation	experience before
4			have never		continuing to
			felt?		enter the live
					stream
++ U	0 31	1116	W2/11	1 (Can provide
1	الباب				explanations
1 1		川人	" []]] ¹	102	made by
				Motivation	influencers
					(affiliates) during
					live-streaming
					shopping
2	Conside	Verbatim	What usually	Watch	Price offers,
	r	(Think)	makes you	Live-	existing

No	Phase	Key Compon ent	Question		Option
No Marie		SL	consider/do in consideration of buying goods during live- streaming shopping on Marketplace?	Shopping Watch Live- streaming Shopping Evaluates Products	promotions, and postage vouchers Quality and reviews of goods on live stream videos shown by live hosts The product brand has a good image
IIV/EDCI				Evaluates Products	Compare the price of a brand's live-streaming shopping with non-live streams on other Marketplaces
	انست انست ان	Customer	In this consideration phase, how do you usually determine which live stream in the marketplace you are going to buy goods?	Watch Live- streaming Shopping Watch Live- streaming Shopping	Visit the brand's social media accounts to find out about the promos offered Browse the entire marketplace that exists of the brand and is doing livestreaming shopping

No	Phase	Key Compon ent	Question		Option
L'ACE LIMINIED CITA C		_	What are some doubts or doubts that you usually feel before buying goods on the use of livestreaming shopping?	Evaluates Products Evaluates Products Evaluates Products Watch	Questioning the live host of the product you are intended to buy and requesting a review directly Compare prices, discounts, and postage vouchers on each brand's shopping live stream in each marketplace The products offered are not as varied as conventional online sellers Products that do not match the image on the storefront at the time of review by the live host. Some live-streaming
			117	Live- streaming Shopping	shopping pages have unexpected and ordinary promos, the same

No	Phase	Key Compon ent	Question		Option
					as conventional online sales The live host did
O K	21	SL	AM	Watch Live- streaming Shopping	not answer in detail when I asked about the review of the product, I wanted to buy
VEDCIT	A ELYOLI			Watch Live- streaming Shopping	Host Live- streaming shopping on Marketplace that has attractive discount vouchers every session
	Goals	Goals	What are your goals for this phase?	Watch Live- streaming Shopping	A live host who can explain my confusion about the product I'm going to buy The products
			Evaluates Products	offered have the appropriate quality from the results of the reviews	
				Evaluates Products	Host Live- streaming shopping that

No	Phase	Key Compon ent	Question		Option
	?	SL	AM		offers the cheapest product prices from comparison results with other Live-streaming shopping marketplaces.
TINIVED CITA		Touchpoi nt	In determining where to live-stream shopping in a marketplace where you interact and shop, what marketplaces do you usually visit?	Watch Live- streaming Shopping and Evaluates Products	Shopee TikTok Tokopedia Loop
	انست	116	m 2 (()	Watch Live-	Excited Neutral
		What emotions do you feel in this phase	streaming Shopping and Evaluates Products	Unhappy	
		Ideas/Op portunitie s	What are your right inputs or	Watch Live-	Conduct periodic promotions with a time that can be

No	Phase	Key Compon	Question		Option
		ent	expectations for this phase based on how you feel or have never felt?	streaming Shopping Watch Live- streaming Shopping Evaluates Products	reached by customers on a daily basis. Variations in sales or category usage in each live shopping session Placing product advertisements with benefits and functions on
JOSE TINIIVED			3, 5, 5	Evaluates Products	social media or marketplace banners The host of livestreaming shopping is ensured to have a stable signal so that the video quality is good and able to explain the product clearly.
3	Purchas e	Verbatim (Think)	What do you usually think about during this phase?	Pay	Will the purchase process go smoothly? Does it take a long time to make a payment?

No	Phase	Key Compon ent	Question		Option
No VALIO GENERALIS DE LA CONTRACTOR DE L	Phase	_	What are you doing in this phase? What are the obstacles that exist in this process?	MDONESIA	Can the voucher code be used at the time of payment? Are there many payment methods to choose from? Enter the voucher code for discounted and free shipping Checkout goods and make payments Make sure the goods have paid off and get the order number I find it difficult to make payments using virtual codes or others Payment options that do not vary When the application checkout process encounters an
					error and cannot be repeated

No	Phase	Key Compon ent	Question		Option
	?	Goals	What are your goals in this phase?		Complete transactions and payments quickly and precisely Get free shipping Get and can use discount vouchers before payment
DCITA		Touchpoi	What do you usually make purchases of goods through?	4DO	Bank Transfer E-money
Į] '	nt	What feelings or		Excited Neutral
			emotions do you feel in this phase?	SI	Unhappy
)نست	((()	What are your right	م ابعاً	Providing varied payment types with clear procedures on
		Ideas / Opportun ity	inputs or expectations for this phase based on how you feel?		each payment method Perform system maintenance so that the checkout
					process is fast and smooth

No	Phase	Key Compon ent	Question		Option
11. A C	?	SL	AM		Gives enough time for the limit in payment Provide a recapitulation of the goods to be paid as well as the details of the voucher used Whether the
4	Wait For Deliver y	Verbatim (Think)	What do you think of this process?	Product Delivery Checking	receipt number is available at the time of the delivery process Whether the goods delivered will arrive accordingly at the time that has been informed Whether the delivery process will last a long time Whether the goods I received later were in line with my expectations

No	Phase	Key Compon ent	Question		Option
CITA		Customer s Action	In this process, what do you usually do?	MDC	Check the receipt number to find out the progress of my delivery of goods periodically Ask the live host or admin if there are problems with goods that have not been sent The feeling that
INIIVED		Pain Points	What are the obstacles you usually feel in this phase?	ONESIA	the goods I ordered will be late to arrive Absence of updates related to the delivery of goods on the system Feelings related
		Goals	in this phase?		to the safety of goods in shipping Feelings for the completeness of the ordered goods during the delivery process Knowing the exact position of

		Key			
No	Phase	Compon	Question		Option
		ent			-
					the whereabouts
					of the item I
					ordered
			What are		Delivery until
			your goals in		receipt of goods
		SI	this phase?		is carried out
1,			— ///		according to the
	()				informed time
	T				Through the
	4		Hanally		marketplace
1			Usually,		_
10	n /		where do you		(Website or
l š			check the		Application)
ΙU		m 1 .	receipt		Website trace and
Ш		Touchpoi	number?		tracking from
		nt			logistics itself
			What	10	Excited
_			feelings or	07	Neutral
			emotions do		
-			you feel in		Unhappy
-			this phase?		
** U	2 31	1116	w ? (((to d	Providing
7:	الباب		What are		information on
	267	川人	your right	L'	numbers that can
					be contacted,
		Ideas/Op	inputs or		such as couriers
		portunity	expectations		or warehouses
			for this phase		storing goods
			based on how		Make regular
			you feel?		updates on the
					presence of goods

No	Phase	Key Compon ent	Question		Option
5	Receive and Wear/U se the Product	Verbatim (Think)	What do you usually think about in this phase?	Receives Products	"The item I ordered turned out to arrive quickly and flawlessly." "The number of items that came according to my order." "The goods received are not in accordance with the ordered." "The goods I ordered were in line with my expectations." "Goods can function properly according to their function." Receiving packages and
		Customer Action	What are you doing in this phase?		checking the packaging in what the circumstances are Documenting during the process

No	Phase	Key Compon ent	Question		Option
NIVED CITA C		SL S		MDONESI	of opening the ordered item Trying the purchased item to see whether it fits or works well Provide a review if the item matches the one ordered to the Marketplace where the order was ordered Make a return or refund if the goods do not match the order Items do not
	انست انست	Pain Point Goals	What are the obstacles you usually feel during this phase? What are your goals in this phase?	المحا	match (function, physical, etc.) my expectations Errors in the size, color, and type of goods shipped Damage to the delivered goods Getting the goods according to my order

No	Phase	Key Compon ent	Question		Option
DCITA		Touchpoi nt	Usually, through what media do you find out that your order has arrived? What feelings or emotions do you feel in		My stuff arrived without errors and defects Email Notifications through the marketplace WhatsApp By courier phone Excited Neutral Unhappy
		Ideas / Opportun ities	What are your right inputs or expectations for this phase based on how you feel?	AESIA (S)	Extra safe packaging so that goods are protected Return of goods to be replaced according to the order can be done quickly, easily, and safely If something goes wrong, the process of returning goods and funds is fast and safe

3.2.2 E-servqual

The data collection method carried out is by distributing questionnaires arranged based on the dimensions of the e-servqual, which produces items of research questions. The questionnaire compiled will be distributed using social media such as chat applications WhatsApp and Line, as well as other social media such as Instagram, Twitter, and so on. The questionnaire that was distributed using social media was in the form of a google forms link. Each study variable was measured using the Likert scale. Respondents will be faced with a question that is then asked to answer with the following options.

Table 3. 2 Research Likert Scale

No	The scale of Customer Interests	Marketplace Live- streaming shopping Performance Scale
1	Very Unimportant	Very Unkind
2	Not Important	Bad
3	Important Enough	Good Enough
4	Important	Good
5	Very Important	Excellent

In the preparation of the research questionnaire, there are research attributes that are arranged based on the dimensions of the e-Servqual. The research questionnaire to be carried out contains the following research variables and attributes.

- 1. Efficiency: speed and ease of accessing the site
- 2. System availability: all technical functions of the site that run correctly
- 3. Fulfillment: how the site meets expectations or expectations in all sorts of transactions, delivery, and availability of goods or services
- 4. Privacy: provides security guarantees for customer information or personal data
- 5. Responsiveness: how the site Respondents quickly
- 6. Compensation: how management compensates customers in case of problems

7. Contact: availability of customer service on the site by telephone or representative in an area

According to Parasuraman, Zeithaml, and Malhotra (2005), in their study, eservqual contains 33 attributes of 7 dimensions, the design of the research questionnaire is depicted in the following table:

Table 3. 3 Design Questionnaire of E-Servqual

	_	gii Questioimane of L-Servquar				
No	Dimensions of E- Servqual		Research attributes			
	/)	1	The live-streaming shopping feature on			
		the marketplace makes it easy for				
12			find what I need			
1		2	The live-streaming shopping feature can			
7			make it easier to explore live streams			
			according to their categories			
1		3	Live-streaming shopping on the			
			marketplace allows you to complete			
			transactions quickly			
		4	Accessing live-streaming shopping			
17			information on the marketplace is			
1	Efficiency	U	regulated according to the direction			
-		5	Live-streaming shopping on the			
			marketplace contains pages and good			
7			video quality			
**		6	Live-streaming shopping on the			
		إللا	marketplace is easy to use, and			
			understand how it looks			
		7	Live-streaming shopping on the			
			marketplace is easy to access quickly and			
			appropriately			
		8	Live-streaming shopping on a well-			
			organized marketplace			

NT.	Dimensions of E-		Dosoproh attributos				
No	Servqual		Research attributes				
		9	Live-streaming shopping on the marketplace makes transactions				
			according to the choice of method				
		10	Live-streaming shopping on				
			marketplaces launched and accessed in many marketplace options				
2	C4	11	Live-streaming shopping on the				
2	System Availability		marketplace provides a variety of				
			purchase services with its delivery				
! 5			methods as well				
I (-		12	Live-streaming shopping on the				
Ė			marketplace is not constrained by buffers				
			or freezes after commenting or refreshing				
			the live-streaming page				
		13	The admin of the host of live-streaming				
Н			shopping on the marketplace provides				
			information on the estimated time the				
			goods will be received				
1		14	Live-streaming shopping on the				
		M	marketplace provides regular				
			information along with couriers who can				
3	Fulfillment	10	be contacted				
3	Funnment	15	Live-streaming shopping on the				
**	٠ ٨ ١١١ ١ ١٠٠		marketplace quickly sends me what I've				
		رىد	ordered				
		16	Live-streaming shopping on the				
			marketplace sends goods that match what				
			I ordered				
		17	The stock of goods as described and				
			informed by the live host or storefront of				

NT.	Dimensions of E-	Research attributes				
No	Servqual					
			live-streaming shopping products on the			
			marketplace			
		18	Live hosts honestly explain their			
			offerings when live-streaming shopping			
			on the marketplace			
		19	Live hosts promise accurate time in			
	ISL	\triangle	product delivery at the time of live-			
17	<u></u>		streaming shopping in the marketplace			
		20	Live-streaming shopping in the			
			marketplace protects customer shopping			
16			behavior and customer shopping history			
Ė		21	Live-streaming shopping in the			
U		*	marketplace does not share my personal			
4	Privacy		data information (address, phone			
			number, receipt number, and others) with			
			other sites			
	>	22	Live-streaming shopping in the			
			marketplace protects information about			
			credit cards, accounts, and more			
		23	Live-streaming shopping on the			
			marketplace gives me a clear and			
** 0	20 31 111609	10	convenient option or explanation for the			
Ÿ		5	procedure in returning goods			
	26月月人"	24	When shopping on live-streaming			
5	Responsiveness		shopping in the marketplace can handle			
	r		product returns well			
		25	Live-streaming shopping in the			
			marketplace offers a guarantee and			
			guarantee for its products			
		26	Live-streaming shopping in the			
			marketplace helps in answering			

No	Dimensions of E-		Research attributes
	Servqual		
			questions related to what to do if my
			transaction is not processed
		27	Live-streaming shopping in the
			marketplace addresses issues
			immediately
		28	Live-streaming shopping in the
	ISL	\triangle	marketplace compensates for the
1	<u> </u>		problems caused
l'		29	Live-streaming shopping in the
<			marketplace provides compensation if
6	Compensation		the goods I ordered did not arrive on time
1			informed
10		30	When shopping on live-streaming
۱			shopping in the marketplace, the
М			marketplace refunds the transaction fee
Ŀ			for goods that cannot be sent
		31	Live-streaming shopping in the
			marketplace provides compensation if
12			the goods I ordered did not arrive on time
		32	When we shop on live-streaming
			shopping in marketplaces, customers and
** (2 3/ /// (00	10	host are involved in live and deep
7	Contact	~	interactive session that includes question
**	9 (E. J. J. J. J. T.	ľ	and answers.
		33	When shopping live-streaming shopping
			in the marketplace, there is a live host and
			customer service admin assistance that
			can answer existing problems or
			obstacles immediately
			,

3.2.3 Correlation Between CJM and E-Servqual

In this study, it is necessary to have a relationship between phase and key components with the dimensions in e-Servqual to be able to provide explanations related to the results of improvements or assessments in the service that has been running with a questionnaire to ask customer expectations of the service and the assessment that the customer provides whether it can be in accordance with what the customer wants. The following is a table of justifications related to the relationship between CJM and E-Servqual:

Table 3. 4 Correlation of CJM and E-Servqual

No	Phase	Key Component	Dimensions of E- Servqual	Question No	Attribute research	Justification
1	Discover	Verbatim (Think)	Efficiency	6	Live-streaming shopping on the marketplace is easy to use and understand how it looks	The relationship between easy-to-understand interfaces according to customers When searching will make customers more efficient in shopping
		نيست		8	Live-streaming shopping on a well- organized marketplace	Live-streaming shopping Marketplace organizes for more efficient product search

No	Phase	Key Component	Dimensions of E- Servqual	Question No	Attribute research	Justification
		Customer Actions		1	The live-streaming shopping feature on the marketplace makes it easy for me to find what I need	Customers who are looking for a product feel the ease of finding the intended product
		Pain Points	Efficiency	4	Information on the live-streaming shopping marketplace according to what is provided or the products offered	The customer gets information that corRespondentss to his category and the products provided according to his drawings or descriptors.
		Goals	Efficiency	7	Live-streaming shopping on the marketplace is easy to access quickly and appropriately	Live-streaming shopping Marketplace makes it easy for customers to start from access efficiently from watching to paying for products.
		Touchpoint	Efficiency	10	Live-streaming shopping on	Live-streaming shopping can be owned by many

No	Phase	Key Component	Dimensions of E- Servqual	Question No	Attribute research	Justification
			ISLA	\sim	marketplaces launched	marketplace options to
		(0)			and accessed in many	make it easier for
					marketplace options	customers to interact
					4	directly with the live host.
					The live-streaming	Customers feel the
		170			shopping feature can	existence of product
		Ideas/Opportu	Efficiency	2	make it easier to	categories when watching
		nities			explore live streams	live-streaming shopping to
		17.1			according to their	make it more efficient in
					categories	search.
					Live-streaming	Customers consider
					shopping on the	whether they will be in the
		15			marketplace is not	purchase or not when they
2	Consider	Verbatim	System Availability	12	constrained by buffers	find a choice and try to
2	Consider	(Think)	System Tivanaonity	12	or freezes after	confirm the choice, but
		"W 3	((((5.3 2)	((1:	commenting or	there are buffer constraints
		July 1			refreshing the live-	on the name of the live
			استارار	ノバ し	streaming page	stream in the marketplace.

No	Phase	Key Component	Dimensions of E- Servqual	Question No	Attribute research	Justification
		Customer Actions	System Availability	18	Live hosts honestly explain their offerings when live-streaming shopping on the marketplace	The relationship between the live host and the review system directly and in response can be honest in the offer or actually not appropriate
		Pain Points	Efficiency	5	Live-streaming shopping on the marketplace contains pages and good video quality	In using live-streaming shopping will make customers indecisive and feel less efficient because the video quality that can change to be less good
		Touchpoint	Contact	33	When shopping on live-streaming shopping in the marketplace, there is a live host and customer service admin assistance that can	Customer interaction in contacting the marketplace if there are more detailed questions

No	Phase	Key Component	Dimensions of E- Servqual	Question No	Attribute research	Justification
		(3)	ISLA	M	answer existing problems or obstacles immediately	
		Ideas/Opportu nities	Fulfillment	17	Stock of goods as described and informed by the live host or storefront of live-streaming shopping products on the marketplace	Customers have expectations that the fulfillment of needs is to be carried out or clearly informed by the live shopping host and in the marketplace.
3	Purchase	Verbatim (Think)	Efficiency	3	Live-streaming shopping on the marketplace allows you to complete transactions quickly	Customers think whether live-streaming shopping can be able to be completed efficiently
		Customer Action	System Availability	9	Live-streaming shopping on the marketplace makes	Customers can make payments through the marketplace with a wide choice of payment

No	Phase	Key Component	Dimensions of E- Servqual	Question No	Attribute research	Justification
			SLA	\sim	transactions according	methods. The availability
					to the choice of method	of payment systems is not
					7	only an option through
					4	banks.
						In payment and receipt of
					Live-streaming	confirmations from the
		(0)			shopping in the	marketplace, it is able to
			Drivoav	22	marketplace protects	provide protection for
		177	Privacy	22	information about	personal information,
		1			credit cards, accounts	especially payment
					and more	transaction numbers and
		Pain Points			(O)	accounts used.
					Live-streaming	The response given by the
					shopping in the	live host or admin is very
					marketplace helps in	necessary immediately
		"W = ?	Responsiveness	26	answering questions	because when you are
		1 cold			related to what to do if	trying to make a
		91:1	[]] \ • • []	112	my transaction is not	transaction, you can't or
			. /		processed	are constrained.

No	Phase	Key Component	Dimensions of E- Servqual	Question No	Attribute research	Justification
		Goals	Responsiveness	25	Live-streaming shopping in the marketplace offers a guarantee and guarantee for its products	On the payment that has been completed on the live-streaming shopping, also explain related information about warranty and other guarantees
		Touchpoint	System Availability	11	Live-streaming shopping on the marketplace provides a variety of purchase services with its delivery methods as well	
		Ideas / Opportunity	Compensation	30	When shopping on live-streaming shopping in the marketplace, the marketplace refunds	Refund of costs that are compensated for the possibility of goods not being available or delivery that is not on time.

No	Phase	Key Component	Dimensions of E- Servqual	Question No	Attribute research	Justification
		(3)	ISLA	M	the transaction fee for goods that cannot be sent	
4	Wait For Delivery	Verbatim (Think)	Fulfillment	15	Live-streaming shopping on the marketplace quickly sends me what I've ordered	Fast delivery after the ordered goods is in accordance with the fulfillment of information at the time of livestreaming shopping, and that has been textually informed in the order.
		Customers Action	Fulfillment	13	The admin of the host of live-streaming shopping on the marketplace provides information on the estimated time the goods will be received	Customers can get information on the estimated time received and check the location of the goods

No	Phase	Key Component	Dimensions of E- Servqual	Question No	Attribute research	Justification
		Pain Points	Responsiveness	27	Live-streaming shopping hosts in the marketplace provide information on addressing issues immediately	absence of updates, can be given an explanation or
		Goals	Fulfillment	19	Live hosts promise accurate time in product delivery at the time of live-streaming shopping in the marketplace	Delivery can be made according to the estimated time that has been informed by the host of the live-streaming shopping.
		Touchpoint	Fulfillment	16	Live-streaming shopping on the marketplace When sending goods provides tracking information options	delivery location updates through several trace and

No	Phase	Key Component	Dimensions of E- Servqual	Question No	Attribute research	Justification
		Ideas/Opportu nity	Fulfillment	14	Live-streaming shopping on the marketplace provides regular information along with couriers who can be contacted	Customers can interact directly with the courier or be given updated information about the location of shopping items every day.
		UNIVERS	Contact	33	When shopping on live-streaming shopping in the marketplace, there is a live host and customer service admin assistance that can answer existing problems or obstacles immediately	The marketplace or expedition can help with questions about delivery immediately if you want to take the goods directly to warehouse and others.
5	Receive and Wear/Use	Verbatim (Think)	Compensation	28	Live-streaming shopping in the marketplace	Thinking at the time of receipt of goods that are not in accordance with

No	Phase	Key Component	Dimensions of E- Servqual	Question No	Attribute research	Justification
	the		SLA	M	compensates for the	whether there is
	Product				problems caused	compensation provided by
		14			When we shop on live-	the marketplace.
					streaming shopping in	Answering the problem of
		Customer	Contact	32	marketplaces, customers and the host	the completeness of the goods received by
		Action	Samuel	32	or the admin of	
		NE NE			marketplaces perform interactive and deep question and answer	receipt of the goods as evidence.
		Pain Point	Privacy	21	Live-streaming shopping in the marketplace does not share my personal data information (address,	Gain privacy security at the time the package is well received by providing information that the
		رنارو			phone number, receipt number, and others) with other sites	expedition thinks are sufficient.

No	Phase	Key Component	Dimensions of E- Servqual	Question No	Attribute research	Justification
	Goals	SITAS	Responsiveness	24	When shopping on live-streaming shopping in the marketplace can handle product returns well	When there is a problem with the package that is sent and Respondents properly and assisted in returning the package or product in accordance with a clear procedure
		Goals	Compensation	29	Live-streaming shopping in the marketplace provides compensation if the goods I ordered did not arrive on time, informed	
		نسطية	Contact	31	When shopping on live-streaming shopping in the marketplace will inform the live host,	Can get store contact person information informed by the live host when there is a lack or

No	Phase	Key Component	Dimensions of E- Servqual	Question No	Attribute research	Justification
		AS	ISLA.	M	which is continued to the customer service to contact if there are problems	incompatibility of goods arriving
		Touchpoint	Responsiveness	23	Live-streaming shopping on the marketplace gives me a clear and convenient option or explanation for the procedure in returning goods	Knowing the information on the arrival of goods and responsive return procedures are carried out by the store's policy in the marketplace.
		Ideas / Opportunities	Privacy	20	Live-streaming shopping in the marketplace protects customer shopping behavior and customer shopping history	Providing privacy to the shopping history of others by closing your full name and phone number when leaving reviews and others.
		رناري	استارال	ノバ	(4)	



3.3 Type Data Collection

The type of data used in this study is primary data. Primary data is research data taken directly from the source or research subject can be in the form of direct interviews with individuals or groups. It can also be in the form of the results of direct observation of researchers in the field. The primary data in this study is data taken directly using questionnaires to Respondents.

3.4 Population and Sample

1. Population

According to Sugiono, 2012 Population is a group of objects or subjects that have certain qualities and characteristics. In this study, the research population was the people of Yogyakarta who met the criteria of the predetermined research Respondents.

2. Sample

The sample is part of certain characteristics that the population has. In determining the sample in this study, because the population is known quantitatively, it will use the formula from Lemeshow, with the following calculations:

$$n = \frac{z^2_{1-\frac{\alpha}{2}} \times P(1-P) \times N}{d^2(N-1) + \, z^2_{1-\frac{\alpha}{2}} \times P(1-P)}$$

$$m = \frac{z^2_{1-\frac{\alpha}{2}} \times P(1-P)}{d^2}$$

With a caption:

Z = Confidence level (95% or sig. 0.05) then the table Z value is 1.96

P = Maximum proportion of estimates (0.05)

d = Sampling error (10% = 0.1)

The selection of the Lemeshow formula was carried out by considering the large population of Live-streaming Shopping users, time constraints, and the limitations of mobilization at this time in retrieving data. The use of sampling errors of 10% is due to the large population with the presence of existing errors.

3.5 Research Flow

The following is the flow of research conducted in this study:

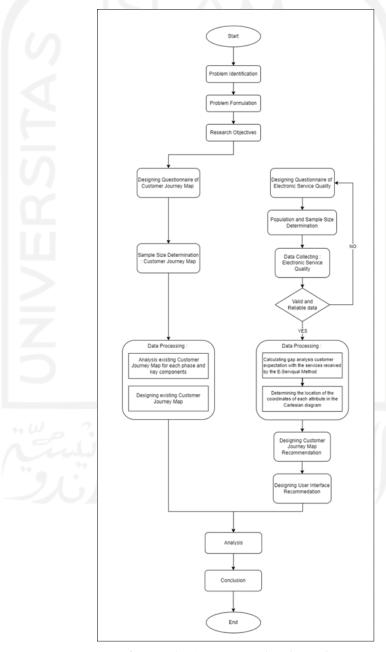


Figure 3. 1 Research Flowchart

Based on the picture above, the following is an explanation of the research flow:

1. Problem Formulation

After identifying the problems that occur and understanding the direction of the research, the next step is to determine the formulation of the problem based on the problem obtained previously as the object of research. In this study, three points of problem formulation will be obtained that will be discussed.

2. Research Objectives

The purpose of the study, as well as the limitations of the problem, are designed so that the research does not deviate from its intended purpose and has a definite goal direction. This study has four points of objectives of the research carried out and has some limitations of the problem.

3. Literature Review

The literature review is carried out to strengthen the analysis through references to previous research and other literature that has a relationship with the research carried out.

5. Questionnaire Preparation

The questionnaire was arranged for two different purposes; distributing the first questionnaire to find out customer expectations for live-streaming shopping with key components that can design Customer journey mapping, and the distribution of questionnaires based on the dimensions of e-servqual which will produce the attributes of research questions that will be disseminated to research Respondents.

6. Data Collection

Data collection uses questionnaires that have been previously compiled and distributed to Respondents. Respondents in this study are people domiciled in Yogyakarta who has made transactions through the Shopee, Tiktok, Tokopedia, or Lazada marketplaces for a minimum of 2 shopping criteria through live-streaming shopping.

7. Validity Test and Data Reliability Test

Before the data that has been collected is processed using gap analysis and Importance Performance Analysis, a validity test is carried out to measure the validity or not of a questionnaire. If there is an invalid question, then the question will be dropped and not used, then the remaining questions will be retested for validity.

After the validity test is carried out, the results of the questionnaire then go through a reliability test. Reliability tests are carried out to determine the level of consistency of a questionnaire so that the questionnaire can be trusted to measure research variables. Questionnaires can be said to be reliable or reliable if Respondents' answers to questions are consistent over time. If there is unreliable data, then the data will be dropped and will not be used in the subsequent data processing. Reliability tests are carried out using SPSS software.

8. Data Processing

Data processing is carried out using the gap analysis and Importance Performance Analysis methods. Gap analysis is used to determine the gap or difference between consumer expectations or expectations and service performance felt by consumers, while Importance Performance Analysis will result in a location coordinate of each attribute in a cartesian diagram.

9. Discussion of Analysis

The analysis discussion contains all the data that has been collected and then processed until it is ready for analysis.

10. Conclusions and Suggestions

The last stage is to provide conclusions that contain answers to predetermined research objectives and also suggestions containing proposed improvements to the company in improving the quality of its services through providing interface recommendations for Customer Journey Mapping and the interface of live-streaming shopping features as well as further research from research that has been carried out.

CHAPTER IV DATA COLLECTING AND PROCESSING

Chapter IV of Data Collection and Processing contains the process of collecting and processing data during research. The data is collected using an online questionnaire whose results will then be processed using the Customer Journey Maps method, Electronic Service Quality (e-servqual) and Importance Performance Analysis (IPA). The results of data processing will be interfaced and become a reference in the preparation of Chapter V, namely discussion.

4.1 Customer Journey Mapping

4.1.1 Characteristics of CJM Respondents

Based on the distribution of questionnaires to 20 respondents from CJM, the research respondents were dominated by 74% female respondents and 26% male respondents. For more details, depicted the graph in Figure 4.1 below.

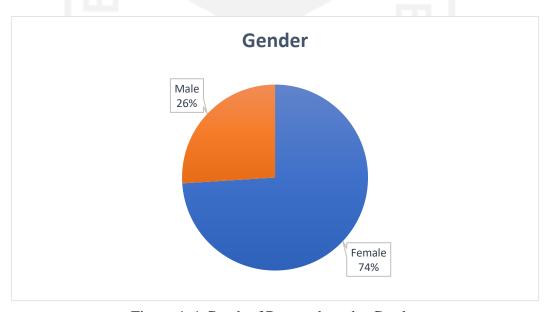


Figure 4. 1 Graph of Respondents by Gender

Meanwhile, when viewed by age, 71% of respondents were in the age range of 21-25 years. Then followed by the age range 15 - 20 years, as many as 18% of respondents; the age range 26-30 years, as many as 7% of respondents; age> 30 years, as many as 3% of respondents; and the age range <15 years as many as 1% respondents. For more details, depicted the graph in Figure 4.8 below.

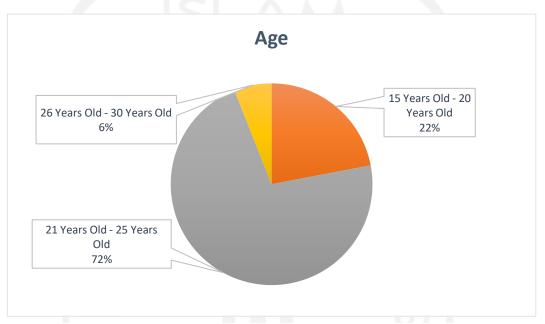


Figure 4. 2 Graph of Respondents by Age

Research respondents are spread over 37 provinces in Indonesia. Respondents domiciled in the Special Region of Yogyakarta dominate as respondents with a percentage of 60% respondents. Then followed by East Kalimantan with 16% of respondents, DKI Jakarta Province with 12%, then West Java with 4%, and West Sumatra and South Sulawesi Province with 4% of respondents. For more details, depicted the graph in Figure 4.3 below:

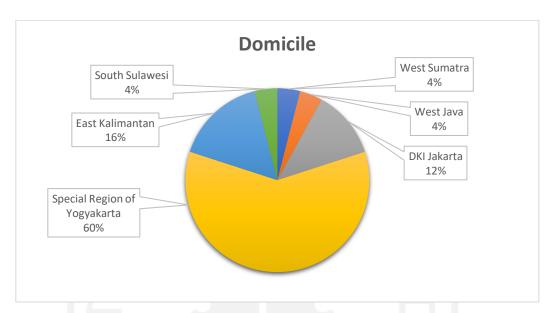


Figure 4. 3 Graph of Respondents by Domicile

The largest percentage of research respondents were students, as many as 64% of respondents. Then followed by respondents who are private employees, as much as 16% of respondents. Then followed by students at 8%, respondents who are housewives with a percentage of 6% respondents, and the remaining 6% are entrepreneurs. For more details, depicted the graph in Figure 4.4 below:

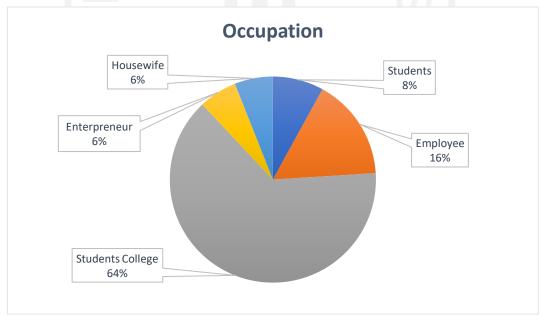


Figure 4. 4 Graph of Respondents by Occupation

When viewed based on how often respondents shop during live-streaming in the marketplace, the majority of respondents, namely 70% of respondents, have shopped 2 - 4 times during live-streaming in the marketplace, then respondents who shopped during live-streaming in the marketplace were 1 time 8% ordered and 5 - 7 times each of 16% respondents, and another 6% have shopped during live-streaming in the marketplace more than 7 times. For more details, illustrated in the graph in Figure 4.5 below:

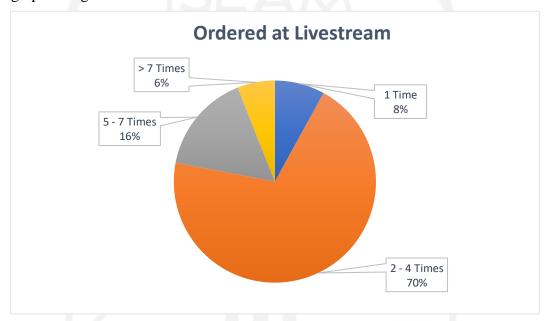


Figure 4. 5 Graph of Respondents by ordered on livestream

Based on the period of shopping using the shopping feature during live-streaming in the marketplace, the majority of respondents, namely 62% of respondents, shopped using the shopping feature during live-streaming in the marketplace for less than 1 year, while 38% of other respondents shopped using the shopping feature during live-streaming at the marketplace. Marketplace for 2-3 years. For more details, depicted the graph in Figure 4.6 below:

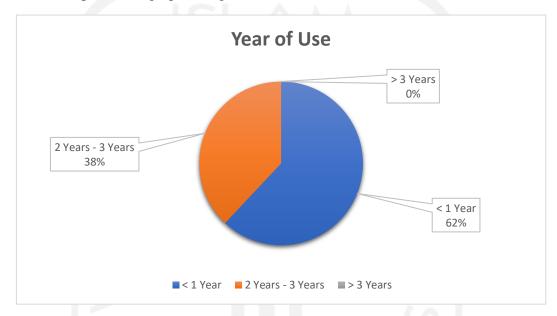


Figure 4. 6 Graph of Respondents By Number of Uses

4.1.2 Result of CJM Respondents in each phase

1. Phase Discover

From the results described below, what the customer wants and expects in this phase, namely at the search phase, is generated on several components as visualized in the figure start from figure 4.8 until figure 4.13 below for the results of each key component:



Figure 4. 8 Verbatim in Discover Phase

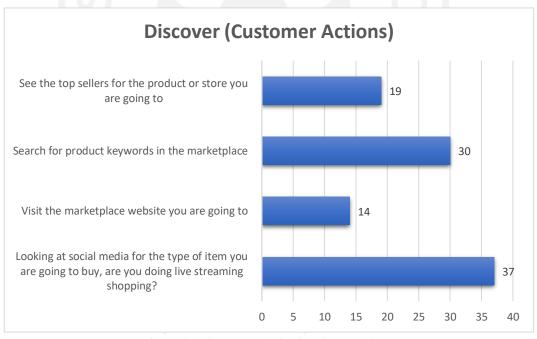


Figure 4. 7 Customer Action in Discover Phase



Figure 4. 9 Pain Point in Discover phase



Figure 4. 10 Goals in Discover phase

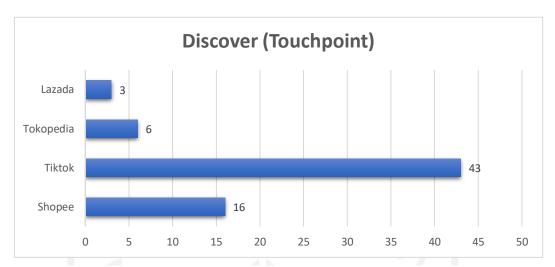


Figure 4. 12 Touchpoint in Discover phase

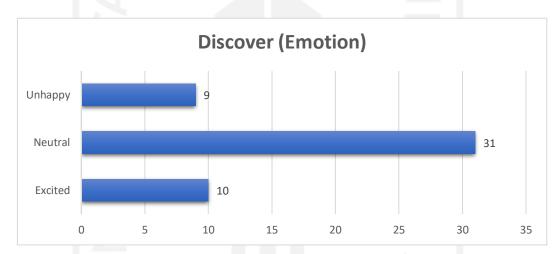


Figure 4. 11 Emotion in Discover Phase



Figure 4. 13 Ideas/Opportunities in Discover phase

2. Phase Consider

From the results described below, what customers want to know more deeply, namely in the consideration phase, is generated in several components, as visualized in the diagram below start from figure 4.14 until figure 4.20 for the results of each key component:

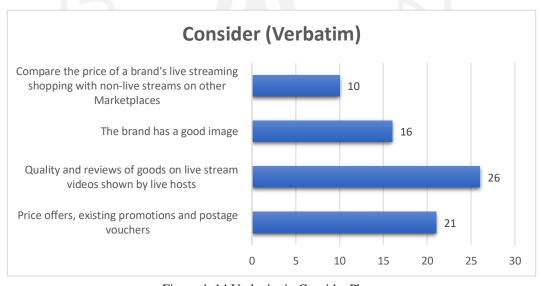


Figure 4. 14 Verbatim in Consider Phase

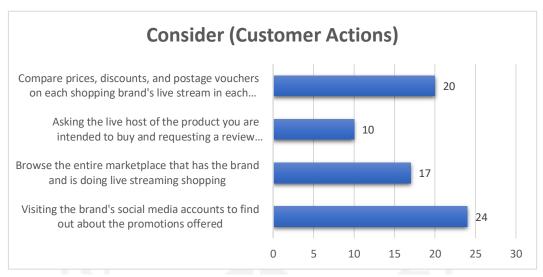


Figure 4. 15 Customer Action in Consider phase

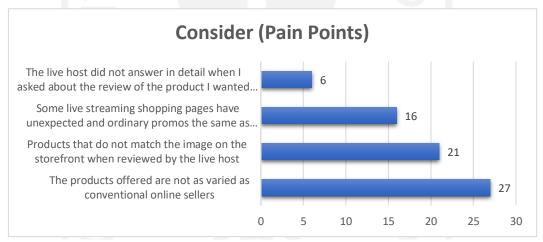


Figure 4. 16 Pain Points in Consider phase



Figure 4. 17 Goals in Consider phase

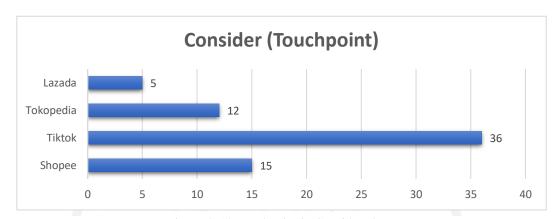


Figure 4. 18 Touchpoint in Consider phase

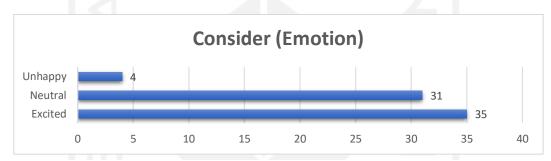


Figure 4. 19 Emotion in Consider phase



Figure 4. 20 Ideas/Opportunities in Consider phase

3. Phase Purchase

The results of the purchase phase, in this third phase, the customer begins to choose to pay for the product they want to buy; the following figures start from figure 4.21 until figure 4.27 are diagrams of the key components in the purchase phase:



Figure 4. 21 Verbatim in Purchase phase



Figure 4. 22 Customer Action in Purchase phase

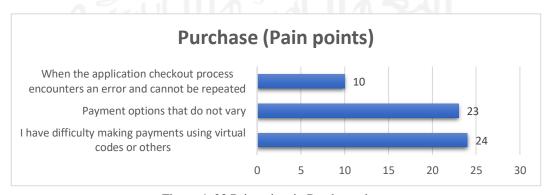


Figure 4. 23 Pain points in Purchase phase



Figure 4. 25 Goals in Purchase phase



Figure 4. 24 Touchpoint in Purchase phase



Figure 4. 26 Emotion in Purchase phase



Figure 4. 27 Ideas/Opportunities in Purchase phase

4. Phase Wait for Delivery

The stage where the customer finishes and gets the order number and has to start waiting for the goods to arrive at the destination address is the wait for the delivery phase. The results of this phase are described for each key component start from figure 4.28 until figure 4.34 as follows:



Figure 4. 28 Verbatim in Wait for Delivery phase

Wait for Delivery (Customer Actions) Ask the live host or admin if there are problems with goods that have not been sent Check the receipt number to find out the progress of my delivery of goods periodically 0 5 10 15 20 25 30 35 40

Figure 4. 29 Customer Action in Wait for Delivery phase



Figure 4. 30 Pain points in Wait for Delivery phase



Figure 4. 31 Goals in Wait for Delivery phase

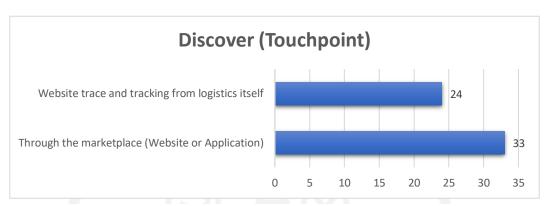


Figure 4. 33 Touchpoint in Wait for Delivery phase



Figure 4. 32 Emotion in Wait for Delivery phase



Figure 4. 34 Ideas/Opportunities in Wait for Delivery purchase

5. Phase Receive and Wear/Use Product

The phase where the ordered goods have arrived, and the customer can use them, the results of the key components in the Receive and wear/use product phase, can be seen in the figures start form 4.35 until figure 4.41 as follow:

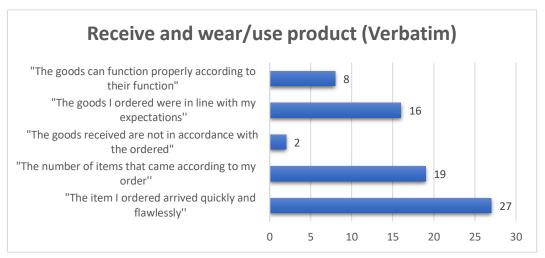


Figure 4. 35 Verbatim in Receive Product phase



Figure 4. 36 Customer Action in Receive Product phase



Figure 4. 37 Pain Point in Receive Product phase



Figure 4. 38 Goals in Receive Product phase

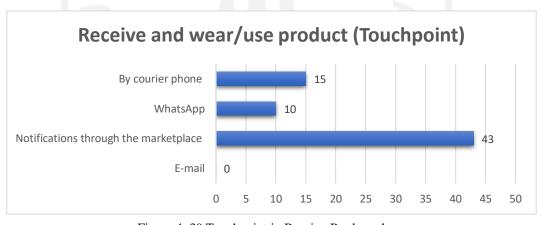


Figure 4. 39 Touchpoint in Receive Product phase

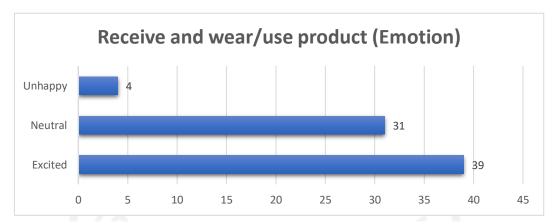


Figure 4. 40 Emotion in Receive Product phase



Figure 4. 41 Ideas/Opportunities in Receive Porduct Phase

4.1.3 Designing Initial Customer Journey Map

Table 4. 1 Initial Customer Journey Map

Persona

- 64% of customers work as students, 16% work as employees, 14% work as a student and 6% work as housewives
- 37 people are female, 13 people are male
- The average age is 21-25 years
- The intensity of shopping in the marketplace as much as 2-4 times there are 70% of customers, 8% of customers as much as 1 time, 16% of customers as much as 5-7 times, and 6% of customers >7 times
- Long shopping using marketplace 62% for less than 1 year, 38% for more than 2 years

Phase	Discover		Consider		Purchase	Wait for delivery	Receive and wear/use product
1 Huse	Motivation	Searches for App or websites	Watch Live- streaming Shopping	Evaluates Products	Pay	Product Delivery Checking	Receives Products
Verbatim (Think)	Want to find a store that matches the desired one-Want to buy the desired item for a gift	- Want to get the product according to the review on	- Quality and review of goods on live stream videos	The brand has a good imageComparing the price of a brand's	Does it take a long timeto make apayment?Can the voucher	- Whether the delivery process will last a long time	- The goods received did not match what was ordered

Phase	Discover		Cor	nsider	Purchase	Wait for delivery	Receive and wear/use product
1 11450	Motivation	Searches for App or websites	Watch Live- streaming Shopping	Evaluates Products	Pay	Product Delivery Checking	Receives Products
		a live-	shown by	live-	code be	- Whether the	- The goods I
		streaming	live hosts-	streaming	used at the	goods	ordered
		shopping	- Price	shopping	time of	delivered will	turned out
		store	offers	with non-	payment?	arrive	to arrive
		- Looking	given,	live streams	- Will the	according to	quickly and
		for live-	existing	on other	purchase	the time that	without any
		streaming	promotion	Marketplace	process go	has been	defects- The
		shopping	s, and	S	smoothly?	informed	number of
		time on a	postage		- Is there a	- Whether the	goods that
		store that	vouchers		large	receipt	came
		sells			selection of	number has	according to
		products	2////	w 2/11	payment	been	my order
		7.50	منن ال	ا ابث	methods?	available at the time of	- The goods I ordered
			עוועט	الباس).		the time of	were in

Phase	Disco	ver	Consider		Purchase	Wait for delivery	Receive and wear/use product
	Motivation	Searches for App or websites	Watch Live- streaming Shopping	Evaluates Products	Pay	Product Delivery Checking	Receives Products
		UNIVERSIT			DONESIA	the delivery process Whether the goods I receive later are in line with my expectations	accordance with my expectation s - The goods can function properly according to their function
Customers Action	- Search for product keywords in the marketplace	- Seeing social media for the type of goods	- Visit the brand's social media accounts	- Ask the live host for information on the product you	- Enter the voucher code for discounted prices and	- Check the receipt number to find out the progress of	- Receiving packages and checking the

Phase	Discov	Discover		Consider		Wait for delivery	Receive and wear/use product
Thuse	Motivation	Searches for App or websites	Watch Live- streaming Shopping	Evaluates Products	Pay	Product Delivery Checking	Receives Products
	- See top	you are	to find out	are intended	free	my delivery	packaging
	sellers for the	going to	the	to buy and	shipping-	of goods	under what
	product or	buy, are	promos	ask for a	Checkout	regularly	circumstanc
	store to	you doing	offered	review	the goods	- Ask the live	es
	which it is	live-	- Browse	directly	and make a	host or admin	- Documentin
	intended	streaming	the entire	- Compare	payment	if there are	g during the
		shopping?	existing	prices,	- Make sure	problems with	opening
		- Visiting	marketpla	discounts,	the goods	the goods that	process of
		the	ce of the	and postage	have been	have not been	the ordered
		existing	brand and	vouchers on	paid for and	sent	goods
		marketpla	do live-	each brand's	get the		- Providing
		ce website	streaming	live-	order		reviews if
		to go to	shopping	streaming	number		the goods
		" 9		shopping in	- Check out		match the
			الرابيات		the goods		order to the

Phase	Discover		Cor	nsider	Purchase	Wait for delivery	Receive and wear/use product
2 1465	Motivation	Searches for App or websites	Watch Live- streaming Shopping	Evaluates Products	Pay	Product Delivery Checking	Receives Products
				each	and Make		Marketplac
		1		marketplace	payment		e where the
		I (C)					order was
		In					ordered
		177					- Trying the
							purchased
					171		goods to
					(O)		determine
							whether
							they are
							suitable or
		W	. 2/ ///	w 2/11	1 11		functioning
		15	ا الله	را المت	1241		properly
		" 9	E.H.H.	[]] 2	(2		- Making a
							return or

Phase	Discover		Consider		Purchase	Wait for delivery	Receive and wear/use product
Thuse	Motivation	Searches for App or websites	Watch Live- streaming Shopping	Evaluates Products	Pay	Product Delivery Checking	Receives Products
		RSIT			DOI		refund if the goods do not match the order
Pain Points	- Where to store to do live-streaming shopping only in certain marketplaces - Admins who do	 Video quality of live- streaming shopping is lacking It's hard to find a brand 	- Some live- streaming shopping pages have unexpecte d promos and are usually the same as convention	- The products offered are not as varied as conventiona l online sellers - Products that do not match the	 Payment options that are not varied I find it difficult to make payments using virtual 	- The feeling that the goods I ordered will be late to arrive - The absence of updates related to the delivery of	- Goods not suitable (function, physical, etc.) my expectation s - Errors in the size, color, and type of

Phase	Discov	ver	Cor	nsider	Purchase	Wait for delivery	Receive and wear/use product
2	Motivation	Searches for App or websites	Watch Live- streaming Shopping	Evaluates Products	Pay	Product Delivery Checking	Receives Products
	live-		al online	images on	codes or	goods on the	goods
	streaming	1 :-	sales	the	others	system	shipped
	shopping	(0)	- The live	storefront at	- When the	- Feelings	- Damage to
	are not	In	host did	the time of	application	related to the	the goods
	clear in	177	not answer	review by	checkout	safety of the	shipped
	product		in detail	the live host	process has	goods in	
	explanatio		when		an error	delivery	
	ns or		- I asked		and cannot	- Feelings for	
	reviews	Z	about the		be repeated	the	
			review of		- The live	completeness	
			the		host did not	of the	
		1. W	product,	w 2/11	answer in	ordered	
		12	and I	ا المت	detail when	goods during	
		" 9	wanted to	[]][2	I asked	the delivery	
			buy	(برس	about the		

Phase	Discover		Consider	Purchase	Wait for delivery	Receive and wear/use product
	Motivation A	App or streamin Shopping	Evaluates Products	Pay	Product Delivery Checking	Receives Products
		ERSIT		review of the product, I wanted to buy	process	
Touchpoin ts	- TikTok - Shopee - Tokopedia - Lazada	- Tikt - Tok - Sho - Laz	opedia pee	- E-money - Bank Transfer	- Through the marketplace (Website or Application) - Website trace and tracking related expeditions	 Notificatio n via marketplac e By courier phone WhatsApp

Phase	Disco	ver	Con	nsider	Purchase	Wait for delivery	Receive and wear/use product
Phase	Motivation	Searches for App or websites	Watch Live- streaming Shopping	Evaluates Products	Pay	Product Delivery Checking	Receives Products
Goals	Get goods according to the purpose of buying them-get the goods as desired with the many promos offered	Search for items that match the desired one based on quality and review results on livestreaming shopping that match-looking for brands	- Host Live- streaming shopping on Marketpla ce that has attractive discount vouchers every session- Live host that can explain my confusion	- Host Live- streaming shopping that offers the cheapest product prices from comparison results with other Live- streaming shopping marketplaces - The products	 Get free shipping Complete transactions and payments quickly and precisely Get and can use discount vouchers before payment 	- Delivery until receipt of goods is carried out according to the informed time - Knowing the exact position of the whereabo	My goods arrived without errors and defects- Getting the goods according to my order

Phase	Disco	Discover		nsider	Purchase	Wait for delivery	Receive and wear/use product
- I MUSE	Motivation	Searches for App or websites	Watch Live- streaming Shopping	Evaluates Products	Pay	Product Delivery Checking	Receives Products
		ERSIT	over the product I am going to buy	offered have the appropriate quality from the results of their reviews		uts of the goods I ordered	
	- There is an explanation of the rating on the live shopping page before continuing to enter the live- streaming	- Providing the category of stores that are doing live- streaming shopping	- Giving variations on the sale or use of categories in each live shopping session	- Posting product advertiseme nts with benefits and functions on social media or	- Perform system maintenanc e so that the checkout process is fast and smooth		

Phase	Disco	ver	Cor	nsider	Purchase	Wait for delivery	Receive and wear/use product
	Motivation	Searches for App or websites	Watch Live- streaming Shopping	Evaluates Products	Pay	Product Delivery Checking	Receives Products
	- Can provide explanations made by influencers (affiliates) during live- streaming shopping	- Added a reminder feature that can be linked to the smartphone calendar."	- Conduct periodic promotion s with the time that can be reached by customers on a daily basis.	marketplace banners - Host live- streaming shopping is ensured to have a stable signal so that the video quality is good and is able to	- Provide a recapitulati on of the goods to be paid and details of the voucher used - Allow sufficient time for the limit in		
		2		explain the product clearly	payment Provide varied		

Phase	Disco	ver	Consider		Purchase	Wait for delivery	Receive and wear/use product
I nuse	Motivation	Searches for App or websites	Watch Live- streaming Shopping	Evaluates Products	Pay	Product Delivery Checking	Receives Products
		VERSIT			types of payments with clear procedures for each payment method		
Emotion	Neutr) ral		cited	Unhappy	Neutral	Excited

From the design of the customer journey, it can be seen from the beginning, namely in the discover phase, namely the phase where customers start thinking about where to buy and what to buy, usually what customers do is look at social media to see the types of goods to be purchased, visit the marketplace website with the media that is usually used, which are TikTok, Shopee, and Tokopedia, the emotions felt by customers are neutral for various reasons, namely because the goods offered by Host Live are not the goods that the customer currently needs.

The next phase is the Consider phase, which is considering. Usually, customers will consider several things, such as promotional offers, discounted prices, free shipping, and marketplace image, and compare based on product reviews. After customers think about their considerations usually customers will do something like visit the brand's social media accounts to find out the promos offered, then ask the live host for information regarding the product that is intended to be purchased and ask for a direct review with the media usually used is the marketplace application itself, namely TikTok, Tokopedia, and Shopee, and usually, customers compare based on the 3 marketplaces. The goal that customers want to achieve is to find a Live-streaming shopping Host on the Marketplace that has attractive discount vouchers for each session. The emotion felt by customers in this phase is excited with the reason that the majority of stores provide special discounts during live-streaming.

The purchase phase is the buying stage. Generally in this phase, the customer will think about whether it takes a long time to make a payment, whether the voucher code can be used at the time of payment, whether the purchase process will run smoothly, whether there are many choices of payment methods, then the customer will make a payment. Purchase by entering the voucher code to get a discount and free shipping. The goal that customers want to achieve is to get free shipping. However, in this phase, there are obstacles that are usually felt by marketplace users during live-streaming shopping on the Marketplace, namely payment options that are not varied, then it is difficult to make payments using virtual codes and others. So that at this stage, there are several suggestions given, namely providing various types of payments and performing system maintenance. The emotion felt in this phase is unhappiness because this phase is the toughest phase that the customer has to go through, where the customer has to spend money to buy the goods offered by Host Live.

The wait for delivery phase is the phase of waiting for the goods to arrive at the customer. In this phase, the customer will contemplate about whether the delivery will take a long time, whether the goods sent will arrive at the time that has been informed whether the goods are in accordance with expectations, and whether the receipt number is available during the shipping process. Then, customers will check the receipt number to find out the existence of the goods

ordered through the marketplace application and the expedition website with the aim of knowing the accurate position where the goods they ordered are. However, there are several obstacles that customers usually feel, namely the feeling that the goods I ordered will arrive late, then the position of the goods on the system is not up to date. The emotions felt by customers in this phase are excitement because the goods will arrive soon and because customers can track their orders with the receipt number they get.

The receive and wear/use product phase is situationed in this phase. The customer will think that the goods received are not in accordance with what was ordered, what the customer will do is usually check the packaging, and document the process of opening the ordered goods, with the aim of the goods being ordered arriving without errors and defects, and get the goods in accordance with the order. Usually, Whatsapp is the media used by customers and the marketplace for notifications of goods' arrival. However, there are obstacles that are felt by customers, such as goods that do not meet expectations, errors in size, color, and type of goods, and damage on goods, so the advice is given if an error occurs, the process of returning goods and funds is fast and safe. The emotion felt by customers in this phase is excitement because they receive the goods as expected.

4.2 Electronic Service Quality

4.2.1 Characteristics of Respondents

After distributing the questionnaires, data were obtained regarding the characteristics and profiles of respondents using the Live Shopping Marketplace feature. From the distribution of questionnaires, research respondents were dominated by 61% female respondents and 39% respondents male respondents. For more details, depicted the graph in Figure 4.7 below.

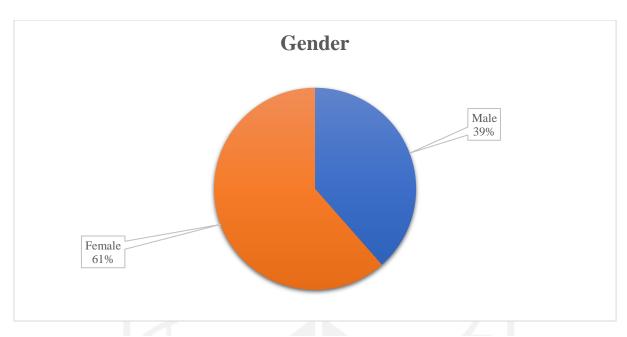


Figure 4. 42 Graphs of Respondents by Gender

Meanwhile, when viewed by age, 71% of respondents were in the age range of 21-25 years. Then followed by the age range 15 - 20 years, as many as 18% of respondents. The age range is 26-30 years, as many as 7% of respondents. Age> 30 years, as many as 3% of respondents, and the age range <15 years, as many as 1% of respondents. For more details, depicted the graph in Figure 4.8 below.

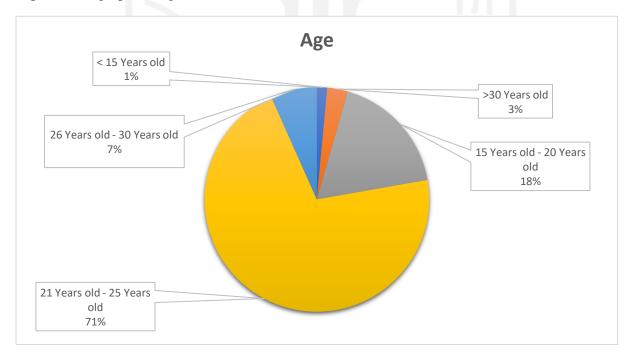


Figure 4. 43 Graphs of Respondents by Age

Research respondents spread throughout the provinces in Indonesia, which are located within the city of Yogyakarta, there are 100 respondents, and outside the Special Region of Yogyakarta, there are 35 respondents. People who live in the Special Region of Yogyakarta dominate as respondents with a percentage of 74% of respondents. Then followed by East Kalimantan with 7% of respondents, DKI Jakarta with 4% of respondents, South Sulawesi with 3% of respondents, Central Java, Banten, and West Sumatra have the same percentage of 2% of respondents, and the last respondent has a percentage of 1%, namely from the provinces of North Sumatra, West Java, North Sulawesi, and Papua. For more details, depicted the graph in Figure 4.9 below.

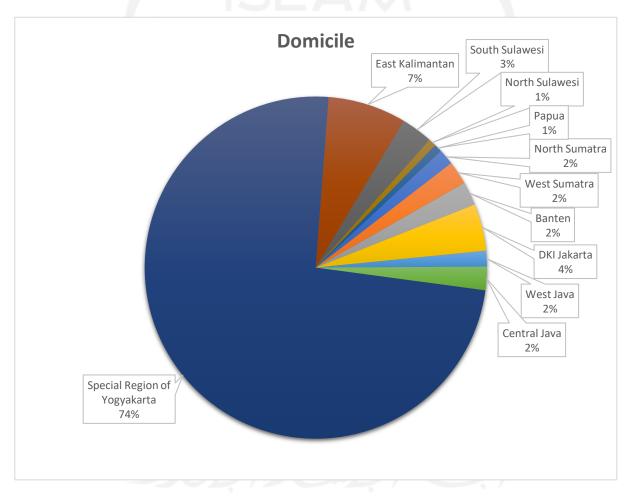


Figure 4. 44 Graph of Respondents by Domicile

The largest percentage of research respondents are students, as much as 67% of respondents. Then followed by respondents who are private employees, as much as 24% of respondents, and respondents who are housewives, students, and entrepreneurs, with 3% of respondents each. For more details, depicted the graph in Figure 4.10 below.

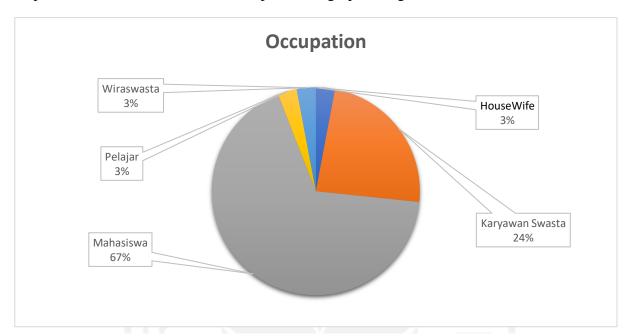


Figure 4. 45 Graphs of Respondents by Job

When viewed based on the number of transactions or orders during live-streaming shopping in the marketplace, most respondents have transacted 2-4 times with a total of 59% respondents. Then followed by 34% of respondents who have transacted 5-7 times, 4% of respondents who have transacted >7 times, and 3% of respondents who have transacted 1 time. For more details, depicted the graph in Figure 4.11 below.

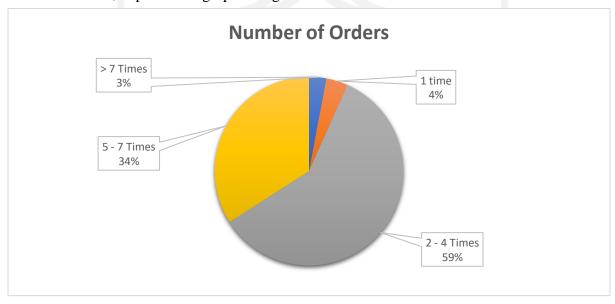


Figure 4. 46 Graph of Respondents by Number of Uses

In relation to respondents who have transacted or ordered during live-streaming shopping in the marketplace, the researchers questioned what types of goods were often or had been purchased by respondents, the reasons for respondents transacting or ordering during live-streaming shopping in the marketplace, and what marketplaces had or frequently used by respondents. Research respondents are allowed to fill in more than one answer to the last three questions.

Based on the type of goods purchased, most respondents chose skincare, based on 91 answers. Then followed by fashion which got 88 answers, accessories got 41 answers, stationery got 33 answers, household appliances got 29 answers, sports necessities got 25 answers, gadgets got 22 answers, and daily necessities got 1 answer. For more details, depicted the graph in Figure 4.12 below.

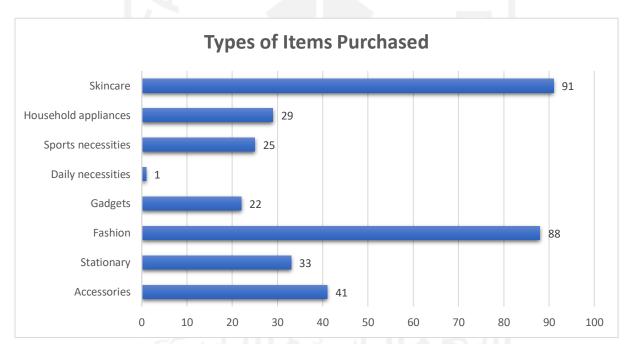


Figure 4. 47 Graphs of Respondents by Types of Items Purchased

Based on the reasons Respondents transacted or ordered during live-streaming shopping on the marketplace, it was dominated by the reason for the discount and the benefits of getting a more valid voucher that got 94 answers. Then followed by the explanation of the product directly and the reason for the review directly, each of which got 86 answers. The reason for the affordable price got 46 answers, the reason for the satisfactory review and the type of goods more complete each got 21 answers, and the reason for the payment is easy to get 9 answers. For more details, see the graph in Figure 4.13 below.



Figure 4. 48 Graphs of Respondents Based on Why To Use Marketplace

Based on the marketplace names used, almost all respondents have made transactions on the TikTok marketplace, with a total of 110 respondents answered. Then Shopee got 68 answers, Tokopedia got 38 answers, and Lazada got 11 answers. For more details, depicted the graph in Figure 4.15 below.

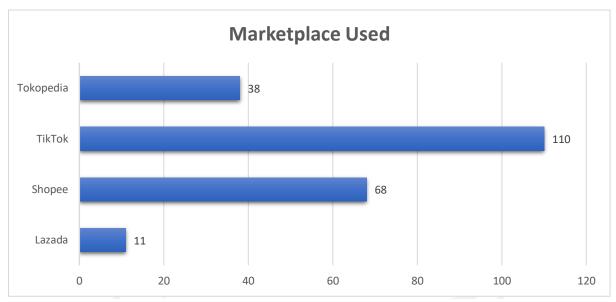


Figure 4. 49 Graphs of Respondents Based on Marketplaces Used

4.2.2 Validity Test

The validity Test is a stage of research to ensure whether or not a questionnaire is valid and used to measure research variables. The purpose of the validity test is to determine the level of accuracy of a research questionnaire and ensure that the answers from the research questionnaire can be used for the data processing stage.

a. Defining hypotheses

H1: The question item score is positively correlated with the total question score

H2: The question item score is not positively correlated with the total question score

b. Specifying the r-value of a_{table}

The number of Respondents to the trial of the research instrument was 30 Respondents if df = N-2, then in this study, df = 30 - 2 = 28. The study used a significance level of 5% or 0.05, which was tested both ways. When viewed based on the table r, a value of 0.361 is obtained.

c. Determining the r_{calculation} value

In this study, The $r_{calculation}$ value will be identified after a validity test using SPSS software. $r_{calculation}$ value is known from the SPSS output in the Corrected Item – Total Correlation column.

d. Decision

This decision-making is based on the following statement. If $r_{counts} > r_{table}$ then H1 is accepted, and H2 is rejected. Whereas, if $r_{counts} < r_{table}$, then H1 is rejected, and H2 is accepted

4.2.3 Consumer Interest (Expectation) Validity Test

Below is Table 4.2, which shows the test results of the validity of consumer interests (expectations) in the marketplace.

Table 4. 2 Test the Validity of Consumer Interests (Expectations)

No.	Questionnaire	Questionnaire Code	r count	r table	Result
Effic	ciency				
	The live-streaming shopping				
1	feature in the marketplace makes it	X1	0.483	0.361	Valid
	easy for me to find what I need				
	The live-streaming shopping				
2	feature can make it easier to	X2	0.524	0.361	Valid
2	explore live streams according to	$\Lambda \mathcal{L}$	0.324	0.301	vanu
	their categories				
	Live-streaming shopping on				
3	Marketplace allows you to quickly	X3	0.566	0.361	Valid
	complete transactions				
	Accessing live-streaming shopping				
4	information in the marketplace is	37.4	0.600	0.261	3 7 1' 1
4	organized according to the	X4	0.680	0.361	Valid
	direction				
	Livestream shopping on				
5	Marketplace contains good pages	X5	0.644	0.361	Valid
	and video quality				
	Shopping live streams on				
6	Marketplace are easy to use, and	X6	0.601	0.361	Valid
	understand how they look				
	Shopping live-streaming in the				
7	marketplace is easily accessible	X7	0.421	0.361	Valid
	quickly and precisely				
	Shop live streams on a well-	1.W 2.6 11 1.	0.700	(10.01)	
8	organized Marketplace	X8	0.588	0.361	Valid
Syst	em availability	1. 1 12	, 1)		
	Shopping live-streaming in the			1	
9	marketplace makes transactions	X9	0.511	0.361	Valid
	according to the choice of method				
	Live-streaming shopping on				
1.0	Marketplace launched and	7710	0.500	0.041	** ** 1
10	accessed across many Marketplace	X10	0.523	0.361	Valid
	options				
4.4	Live-streaming shopping in the	****	0.44-7	0.0-1	**
11	marketplace provides a variety of	X11	0.415	0.361	Valid
	· · ·				

No.	Questionnaire	Questionnaire Code	r count	r table	Result
	purchase services with its delivery				
	method as well				
10	Live-streaming shopping on				
	Marketplace isn't limited by				
12	buffers or freezes after	X12	0.570	0.361	Valid
	commenting or refreshing a live				
	stream page				
Fulf	illment				
-	The admin of the live-streaming				
	shopping host in the marketplace				
13	provides information about the	X13	0.409	0.361	Valid
	estimated time the goods will be				
	received				
	Shopping for live-streaming in the				
14	marketplace provides regular	X14	0.660	0.361	Valid
14	information along with couriers	Λ14	0.000	0.301	vand
	who can be contacted				
	Live-streaming shopping on				
15	Marketplace quickly sent me what	X15	0.625	0.361	Valid
	I had ordered				
	Shopping live-streaming in the				
16	marketplace sends the items that	X16	0.636	0.361	Valid
	match the one I ordered				
	Stock items as described and				
17	informed by live Live Hosts or	X17	0.367	0.361	Valid
1 /	live-streaming shopping product	X1 /	0.307	0.301	v anu
	storefronts on Marketplace				
	Live live hosts honestly explain				
18	their offerings when shopping for	X18	0.463	0.361	Valid
	live streams on Marketplace				
	Live Hosts promise accurate time				
19	in product delivery at the time of	X19	0.566	0.361	Valid
19	shopping live-streaming on	A 19	0.300	0.301	vanu
	Marketplace				
Priva	acy				
	Live-streaming shopping on				
20	Marketplace protects customer	V20	0.506	0.261	V al: 1
20	shopping behavior and customer	X20	0.506	0.361	Valid
	shopping history				
	Shopping live-streaming on				
21	marketplaces does not share my	X21	0.369	0.361	Valid
	personal data information (address,				

No.	Questionnaire	Questionnaire Code	r count	r table	Result
	phone number, receipt number,				
	etc.) with other sites				
	Livestream shopping on				
22	Marketplace protects information	X22	0.601	0.361	Valid
	about credit cards, accounts, and	ALL	0.001	0.301	v and
	more				
Resp	oonsiveness				
	Live-streaming shopping on				
	Marketplace gives me clear and				
23	convenient options or explanations	X23	0.593	0.361	Valid
	for the procedure in returning				
	goods				
	When shopping on live-streaming				
24	shopping on Marketplace can	X24	0.549	0.361	Valid
	handle product returns well				
	Shopping for live-streaming in the				
25	marketplace offers guarantees and	X25	0.424	0.361	Valid
	guarantees for its products				
	Shopping live-streaming in the				
2 -	marketplace helps answer	Y/0 c	0.500	0.061	7 7 1 1 1
26	questions related to what to do if	X26	0.520	0.361	Valid
	my transaction is not processed				
	Shopping live streams on				
27	Marketplace immediately resolves	X27	0.441	0.361	Valid
	the issue				
Com	pensation				
	Live-streaming shopping on				
28	Marketplace compensates for	X28	0.57	0.361	Valid
	issues caused				
	Shopping for live-streaming in the				
	marketplace compensates if the	たっ. Al. 11 か	24		
29	item I ordered does not arrive on	X29	0.68	0.361	Valid
	time is informed				
	When shopping on a live-				
	streaming in the marketplace, the				
30	marketplace refunds the	X30	0.46	0.361	Valid
- 0	transaction fee for items that		5	2.202	
	cannot be sent				
Con					
	Shopping for live-streaming in the		0	0.5	
31	marketplace compensates if the	X31	0.617	0.361	Valid
	1				

No.	Questionnaire	Questionnaire Code	r count	r table	Result
	item I ordered does not arrive on				
	time is informed				
	When we shop on live-streaming				
	shopping on Marketplace,				
32	customers and host involve in	X32	0.667	0.361	Valid
	immersive interactive questions				
	and answers.				
	When shopping at the live-				
	streaming shopping in the				
22	marketplace, there is a live host and	V22	0.446	0.261	3 7 11 1
33	customer service admin assistance	X33	0.446	0.361	Valid
	who can immediately answer				
	existing problems or obstacles				

The validity test was carried out on 30 research Respondents to find out $r_{the\ calculated}$ value or in SPSS seen from the Correlation value and then compared with the table r value according to the number of respondents tested. If the value of $r_{counts} > r_{table}$ then the first hypothesis is accepted, which means that the score of the question item is positively correlated with the total score of the question.

Based on the results of the validity test on the interests (expectations) of consumers, it can be seen that each question item has a $r_{calculated}$ value that is more than the r_{table} value of 0.361, so it can be notified that all question items are declared valid, and H1 is accepted.

4.2.4 Consumer Performance Validity Test

Below is Table 4.3, which shows the results of the test of the validity of consumer interests in the marketplace.

Table 4. 3 Marketplace Performance Validity Test

No	Questionnaire	Questionnaire Code	r count	r table	Resul t
Effi	ciency				
1	The live-streaming shopping feature in the marketplace makes it easy for me to find what I need	X1	0.558	0.361	Valid
2	The live-streaming shopping feature can make it easier to explore	X2	0.488	0.361	Valid

No	Questionnaire	Questionnaire	r	r	Resu
NO	Questionnaire	Code	count	table	t
	live streams according to their				
	categories				
	Live-streaming shopping on				
3	Marketplace allows you to quickly	X3	0.531	0.361	Valid
	complete transactions				
	Accessing live-streaming shopping				
4	information in the marketplace is	X4	0.484	0.361	Vali
•	organized according to the		0	0.001	, 4422
	direction				
	Livestream shopping on			\	
5	Marketplace contains good pages	X5	0.461	0.361	Vali
	and video quality				
_	Shopping live streams on				
6	Marketplace are easy to use and	X6	0.477	0.361	Vali
	understand how they look				
	Shopping live-streaming in the				
7	marketplace is easily accessible	X7	0.507	0.361	Vali
	quickly and precisely				
8	Shop live streams on a well-	X8	0.451	0.361	Vali
C 4	organized Marketplace			-	
Syst	em availability			-	
0	Shopping live-streaming in the	170	0.405	0.261	T 7 1'
9	marketplace makes transactions	X9	0.425	0.361	Vali
	according to the choice of method				
10	Live-streaming shopping on	V 10	0.661	0.261	V /a1:
10	Marketplace launched and accessed	X10	0.661	0.361	Vali
	across many Marketplace options Live-streaming shopping in the				
	marketplace provides a variety of				
11	purchase services with its delivery	X11	0.551	0.361	Valid
	method as well				
	Live-streaming shopping on				
	Marketplace isn't limited by buffers				
12	or freezes after commenting or	X12	0.639	0.361	Vali
	refreshing a live stream page				
Fulf	illment				
_ 411.	The admin of the live-streaming				
	shopping host in the marketplace				
	provides information about the	X13	0.613	0.361	Vali
13					
13	estimated time the goods will be	ATS	0.013	0.001	

No	Questionnaire	Questionnaire	r	r	Resul
	-	Code	count	table	t
14	Shopping for live-streaming in the marketplace provides regular information along with couriers who can be contacted	X14	0.420	0.361	Valid
15	Live-streaming shopping on Marketplace quickly sent me what I had ordered	X15	0.683	0.361	Valid
16	Shopping live-streaming in the marketplace sends the items that match the one I ordered	X16	0.412	0.361	Valid
17	Stock items as described and informed by live Live Hosts or live-streaming shopping product storefronts on Marketplace	X17	0.641	0.361	Valid
18	Live hosts honestly explain their offerings when shopping for live streams on Marketplace	X18	0.617	0.361	Valid
19	Live Hosts promise accurate time in product delivery at the time of shopping live-streaming on Marketplace	X19	0.590	0.361	Valid
Priva	acy		171		
20	Live-streaming shopping on Marketplace protects customer shopping behavior and customer shopping history	X20	0.654	0.361	Valid
21	Shopping live-streaming on marketplaces does not share my personal data information (address, phone number, receipt number, etc) with other sites	X21	0.506	0.361	Valid
22	Livestream shopping on Marketplace protects information about credit cards, accounts, and more	X22	0.524	0.361	Valid
Resp	oonsiveness				
23	Live-streaming shopping on Marketplace gives me clear and convenient options or explanations for the procedure in returning goods	X23	0.511	0.361	Valid

NT.	0	Questionnaire	r	r	Resul
No	Questionnaire	Code	count	table	t
24	When shopping on live-streaming shopping on Marketplace can	X24	0.600	0.361	Valid
25	handle product returns well Shopping for live-streaming in the marketplace offers guarantees and guarantees for its products	X25	0.609	0.361	Valid
26	Shopping live-streaming in the marketplace helps answer questions related to what to do if my transaction is not processed	X26	0.698	0.361	Valid
27	Shopping live streams on Marketplace immediately resolves the issue	X27	0.466	0.361	Valid
Con	pensation		_		
28	Live-streaming shopping on Marketplace compensates for issues caused	X28	0.505	0.361	Valid
29	Shopping for live-streaming in the marketplace compensates if the item I ordered does not arrive on	X29	0.539	0.361	Valid
30	time is informed When shopping on a shopping live stream in the marketplace, the marketplace refunds the transaction fee for items that cannot be sent	X30	0.541	0.361	Valid
Con	tact				
31	Shopping for live-streaming in the marketplace compensates if the item I ordered does not arrive on	X31	0.625	0.361	Valid
32	time is informed When we shop on live-streaming shopping on Marketplace, customers and live host involve in immersive interactive questions and answers.	X32	0.504	0.361	Valid
33	When shopping on live-streaming shopping in the marketplace, there is a live host and customer service admin assistance who can immediately answer existing problems or obstacles	X33	0.545	0.361	Valid

Similar to the validity test on consumer interests, the marketplace performance validity test was also carried out on 30 respondents of the same research to determine the value of r_{count} or in SPSS seen from the Correlation value and then compared with the rtable value according to the number of respondents tested. If the value of $r_{count} > r_{table}$, the first hypothesis is accepted, which means that the score of the question items is positively correlated with the total score of the question.

Based on the results of the validity test on marketplace performance, it can be seen that each question item has a r_{count} value that is more than the r_{table} value, which is 0.361, so it can be seen that all questions are declared valid, and H1 is accepted. After the validity test was carried out and all the questions were declared valid, then the next research questionnaire was tested for reliability.

4.2.5 Reliability Test

The reliability test is carried out after all items of the questionnaire questions are declared valid. The reliability test itself aims to find out the extent to which the measurement results can be trusted and can be said to have good reliability when the instrument or questionnaire becomes a measuring instrument that is used several times with relatively the same results or answers. Sufren & Nathaniel (2014) said that the questionnaire or instrument used in the study can be said to be reliable when the value of Cronbach's Alpha coefficient is between 0.6 to 0.8. Table 4.4 below shows the results of the research questionnaire reliability test.

Table 4. 4 Questionnaire Reliability Test

No	Research Variables	The Value of Cronbach's Alpha	Result
1	Interests	0.9221	Reliable
2	Performance	0.9248	Reliable

Based on the reliability test conducted, it can be seen that the research variables of consumer interest and marketplace performance have a coefficient value of Cronbach's Alpha which is greater than 0.8. Each research variable has a value of 0.9221 (consumer interest variable) and 0.9248 (marketplace performance variable), which can then be stated that both research variables are reliable and the research controller can be used for actual research.

4.2.6 Electronic Service Quality Data Processing

4.2.6.1 Efficiency

The dimension of efficiency in the e-servqual method of this study is defined as the speed and ease of accessing marketplace sites. The Interest of consumers using the marketplace is to simplify transactions that are more practical so that consumers are facilitated by using the marketplace. This then becomes one of the dimensions that is considered important for consumers. The results of the gap analysis calculation show an average value of -0.88, which means that the market performance value is still lower than the consumer expectation value. For the calculation of the gap value of the efficiency dimension, you can see in Table 4.5 below.

Table 4. 5 Value Gap Dimension Efficiency

1		•		
Attribute	Questionnaire	Interest	Performance	Gap
X1	The live-streaming shopping feature in the marketplace makes it easy for me to find what I need	4.44	3.76	-0.68
X2	The live-streaming shopping feature can make it easier to explore live streams according to their categories	4.55	3.44	-1.11
X3	Live-streaming shopping on Marketplace allows you to quickly complete transactions	4.35	3.55	-0.80
X4	Accessing live-streaming shopping information in the marketplace is organized according to the direction	4.46	3.60	-0.86
X5	Livestream shopping on Marketplace contains good pages and video quality	4.49	3.61	-0.88
X6	Shopping live streams on Marketplace are easy to use and understand how they look	4.43	3.49	-0.94
X7	Shopping live-streaming in the marketplace is easily accessible quickly and precisely	4.46	3.61	-0.85
X8	Shop live streams on a well-organized Marketplace	4.43	3.55	-0.88
	Average	4.45	3.58	-0. 88

4.2.6.2 System Availability

The dimension of system availability in the e-servqual method is defined by whether the consumer experiences the entire technical function of the marketplace site running correctly or not. The results of the gap analysis calculation show an average value of -0.87, which means

that the market performance value is still lower than the consumer expectation value. For the calculation of the gap value of the system availability dimension, the full range can be seen in Table

4.6 Following.

Table 4. 6 Value Gap Dimensions System Availability

Attribut e	Questionnaire	Interest	Perfor mance	Gap
X9	Shopping live-streaming in the marketplace makes transactions according to the choice of method	4.30	3.44	-0.86
X10	Live-streaming shopping on Marketplace launched and accessed across many Marketplace options	4.39	3.65	-0.74
X11	Live-streaming shopping in the marketplace provides a variety of purchase services with its delivery method as well	4.48	3.45	-1.03
X12	Live-streaming shopping on Marketplace isn't limited by buffers or freezes after commenting or refreshing a live-stream page	4.39	3.55	-0.84
	Average	4.39	3. 52	-0. 87

4.2.6.3 Fulfillment

The dimension of fulfillment in the e-servqual method of this study is defined by how the marketplace site meets expectations or expectations in all sorts of transactions, delivery, and availability of goods or services. The results of the gap analysis calculation show an average value of -0.84, which means that the market performance value is still lower than the consumer expectation value. For the calculation of the gap value of the fulfillment dimension, please see table 4.7 below.

Table 4. 7 Value Gap Dimensions fulfillment

Attribute	Questionnaire	Interest	Performance	Gap
	The admin of the live-streaming shopping			
V12	host in the marketplace provides	4.40	3.63	-0.77
X13	information about the estimated time the	4.40		
	goods will be received			

Attribute	Questionnaire	Interest	Performance	Gap
X14	Shopping for live-streaming in the			
	marketplace provides regular information	4.52	3.63	-0.89
	along with couriers who can be contacted			
X15	Live-streaming shopping on Marketplace	4.31	3.48	-0.83
	quickly sent me what I had ordered			
X16	Shopping live-streaming in the marketplace	4.46	3.61	-0.85
	sends the items that match the one I ordered			
X17	Stock items as described and informed by			
	live Live Hosts or live-streaming shopping	4.54	3.53	-1.01
	product storefronts on Marketplace			
X18	Live hosts honestly explain their offerings			
	when shopping for live streams on	4.36	3.60	-0.76
	Marketplace			
X19	Live Hosts promise accurate time in product			
	delivery at the time of live-streaming	4.38	3.70	-0.68
	shopping on the marketplace			
	Average	4.42	3. 60	-0. 84

4.2.6.4 Privacy

The dimension of privacy in the e-servqual method of this study is defined by whether the provision of security guarantees for consumers' information or personal data is felt directly by consumers. The results of the gap analysis calculation show an average value of -0.81, which means that the market performance value is lower than the consumer expectation value. For the calculation of the full value of the privacy dimension gap, please refer to Table 4.8 below.

Table 4. 8 Value Gap Dimensions of Privacy

Attribute	Questionnaire	Interest	Performance	Gap
X20	Live-streaming shopping on Marketplace protects customer shopping behavior and customer shopping history	4.36	3.70	-0.66
X21	Shopping live-streaming on marketplaces does not share my personal data information (address, phone number, receipt number, etc.) with other sites	4.39	3.44	-0.95

Attribute	Questionnaire	Interest	Performance	Gap
X22	Livestream shopping on Marketplace protects information about credit cards, accounts, and more	4.45	3.63	-0.82
	Average	4.40	3. 59	-0. 81

4.2.6.5 Responsiveness

The dimension of responsiveness in the e-servqual method of this study is defined by how marketplace sites Respondents quickly so that consumers become the top priority of marketplace services. The results of the gap analysis calculation show an average value of -0.8 1, which means that the market performance value is still lower than the consumer expectation value. For the calculation of the gap value of the responsiveness dimension, please see table 4.9 below.

Table 4. 9 Value Gap Dimensions of Responsiveness

Attribute	Questionnaire	Interest	Performance	Gap
X23	Live-streaming shopping on Marketplace gives me clear and convenient options or explanations for the procedure for returning goods	4.45	3.65	-0.80
X24	When shopping on live-streaming shopping on Marketplace can handle product returns well	4.38	3.64	-0.74
X25	Shopping for live-streaming in the marketplace offers guarantees and guarantees for its products	4.36	3.55	-0.81
X26	Shopping live-streaming in the marketplace helps answer questions related to what to do if my transaction is not processed	4.43	3.39	-1.04
X27	Shopping live streams on Marketplace immediately resolves the issue	4.33	3.65	-0.68
	Average	4.39	3. 58	-0.81

4.2.6.6 Compensation

The compensation dimension in the e-servqual method of this study is defined by how marketplace site management compensates customers in the event of problems that are felt directly by consumers. The results of the gap analysis calculation show an average value of -0.99, which means that the market performance value is still lower than the consumer

expectation value. For the calculation of the gap value of the compensation dimension, please see table 4.10 below.

Table 4. 10 Compensation Dimension Gap Value

Attribute	bute Questionnaire		Performance	Gap
X28	Live-streaming shopping on Marketplace compensates for issues caused	4.33	3.41	-0.92
X29	Shopping for live-streaming in the marketplace compensates if the item I ordered does not arrive on time is informed	4.56	3.36	-1.20
X30	When shopping on a live-stream shopping in the marketplace, the marketplace refunds the transaction fee for items that cannot be sent	4.36	3.50	-0.86
	Average	4.42	3.42	-0. 99

4.2.6.7 Contact

The contact dimension in the e-servqual method of this study is defined by the availability of customer service on a marketplace site by telephone or representative in an area. The results of the gap analysis calculation show an average value of -0.87, which means that the market performance value is still lower than the consumer expectation value. For the calculation of the gap value of the contact dimension, the full range can be seen in Table 4.11 below.

Table 4. 11 Contact Dimension Gap Values

Attribute	Questionnaire	Interest	Performance	Gap
X31	Shopping for live-streaming in the marketplace compensates if the item I ordered does not arrive on time is informed	4.39	3.60	-0.79
X32	When we shop on live-streaming shopping on Marketplace, customers and live host involve in immersive interactive questions and answers.	4.54	3.69	-0.85
X33	When shopping on live-streaming shopping in the marketplace, there is a live host and customer service admin assistance who can immediately answer existing problems or obstacles	4.47	3.51	-0.96
	Average	4.41	3.46	-0. 87

4.2.7 Overall Gap Value

The ranking of the overall gap values aims to determine the order of the gap values from having the largest value to the smallest value. From this ranking, it will be known which attribute has the biggest gap, so improvement priorities are needed. From the results of the calculation of the gap value for each research attribute, the following are Table 4.12 and Table 4.13, which show the order of the overall gap value.

Table 4. 12 Ranking of Each Attribute's Overall Gap Value

Dimension	Attribute	Questionnaire	Interest	Performance	Gap	Rank
	X1	The live-streaming shopping feature in the marketplace makes it easy for me to find what I need	4.44	3.76	-0.68	30
	X2	The live-streaming shopping feature can make it easier to explore live streams according to their categories	4.55	3.44	-1.11	2
Efficiency	X3	Live-streaming shopping on Marketplace allows you to quickly complete transactions	4.35	3.55	-0.80	24
	X4	Accessing live- streaming shopping information in the marketplace is organized according to the direction	4.46	3.60	-0.86	14
	X5	Livestream shopping on Marketplace contains good pages and video quality	4.49	3.61	-0.88	11
	X6	Shopping live streams on Marketplace are easy to use and	4.43	3.49	-0.94	8

Dimension	Attribute	Questionnaire	Interest	Performance	Gap	Rank
		understand how they look				
	X7	Shopping live- streaming in the marketplace is easily accessible quickly and precisely	4.46	3.61	-0.85	16
	X8	Shop live streams on a well-organized Marketplace	4.43	3.55	-0.88	12
	X9	Shopping live- streaming in the marketplace makes transactions according to the choice of method	4.30	3.44	-0.86	15
ility	X10	Live-streaming shopping on Marketplace launched and accessed across many Marketplace options	4.39	3.65	-0.74	28
System Availability	X11	Live-streaming shopping in the marketplace provides a variety of purchase services with its delivery method as well	4.48	3.45	-1.03	4
	X12	Live-streaming shopping on Marketplace isn't limited by buffers or freezes after commenting or refreshing a live stream page	4.39	3.55	-0.84	19
Fulfillme nt	X13	The admin of the live-streaming shopping host in the	4.40	3.63	-0.77	26

Dimension	Attribute	Questionnaire	Interest	Performance	Gap	Rank
		marketplace provides information about the estimated				
		time the goods will				
		be received Shopping for live-				
		streaming in the marketplace				
	X14	provides regular information along with couriers who	4.52	3.63	-0.89	10
	49	can be contacted Live-streaming			-	
	X15	shopping on Marketplace quickly sent me what I had	4.31	3.48	-0.83	20
	X16	Shopping live- streaming in the marketplace sends the items that match	4.46	3.61	-0.85	17
	X17	Stock items as described and informed by live Live Hosts or livestreaming shopping product storefronts on Marketplace	4.54	3.53	-1.01	5
	X18	Live live hosts honestly explain their offerings when shopping for live streams on	4.36	3.60	-0.76	27
	X19	Marketplace Live Hosts promise accurate time in product delivery at the time of shopping live-streaming on Marketplace	4.38	3.70	-0.68	32

Dimension	Attribute	Questionnaire	Interest	Performance	Gap	Rank
	X20	Live-streaming shopping on Marketplace protects customer shopping behavior and customer shopping history	4.36	3.70	-0.66	33
Privacy	X21	Shopping live- streaming on marketplaces does not share my personal data information (address, phone number, receipt number, etc.) with other sites	4.39	3.44	-0.95	7
	X22	Livestream shopping on Marketplace protects information about credit cards, accounts, and more	4.45	3.63	-0.82	21
	X23	Live-streaming shopping on Marketplace gives me clear and convenient options or explanations for the procedure in returning goods	4.45	3.65	-0.80	23
Responsive	X24	When shopping on live-streaming shopping on Marketplace can handle product returns well	4.38	3.64	-0.74	29
	X25	Shopping for live- streaming in the marketplace offers guarantees and guarantees for its products	4.36	3.55	-0.81	22

Dimension	Attribute	Questionnaire	Interest	Performance	Gap	Rank
	X26	Shopping live- streaming in the marketplace helps answer questions related to what to do if my transaction is not processed	4.43	3.39	-1.04	3
	X27	Shopping live streams on Marketplace immediately resolves the issue	4.33	3.65	-0.68	31
	X28	Live-streaming shopping on Marketplace compensates for issues caused	4.33	3.41	-0.92	9
Compensation	X29	Shopping for live- streaming in the marketplace compensates if the item I ordered does not arrive on time is informed	4.56	3.36	-1.20	1
	X30	The marketplace refunds the transaction fee for items that cannot be sent	4.36	3.50	-0.86	13
Contact	X31	Shopping for live- streaming in the marketplace compensates if the item I ordered does not arrive on time is informed	4.39	3.60	-0.79	25
C	X32	When we shop on live-streaming shopping on Marketplace customers and host live immersive	4.54	3.69	-0.85	18

Dimension	Attribute	Questionnaire	Interest	Performance	Gap	Rank
		interactive questions				
		and answers.				
		When shopping on				
		live-streaming				
		shopping in the				
		marketplace, there is				
		a live host and				
	X33	customer service	4.47	3.51	-0.96	6
		admin assistance				
		who can				
		immediately answer				
		existing problems or				
		obstacles				

By considering each question attribute in Table 4.12; the largest gap value is owned by attribute X29, namely "Live-streaming shopping in the marketplace compensates if the item I ordered is not informed in time", while the smallest gap value is owned by attribute X20, namely "Livestream shopping on Marketplace protects customers' shopping behavior and customer shopping history." Meanwhile, when viewed based on each dimension in Table 4.13, the largest gap value is owned by the Compensation dimension and the smallest gap value is owned by the Privacy dimension.

Table 4. 13 Overall Gap Value Rankings Of Each Dimension

No	Dimension	Interest	Performance	Gap	Rank
1	Efficiency	4.45	3.58	-0.88	3
2	System Availability	4.39	3.52	-0.87	4
3	Fulfillment	4.42	3.60	-0.83	5
4	Privacy	4.40	3.59	-0.81	7
5	Responsive	4.39	3.58	-0.81	6
6	Compensation	4.42	3.42	-0.99	1
7	Contact	4.41	3.46	-0.95	2

4.2.8 Marketplace Service Quality Calculation

The quality of marketplace services is one of the factors in knowing the extent of satisfaction felt by consumers. Before the analysis is carried out, according to Besterfield in Handoko (2011), the quality of service can be calculated using the following formula.

$$Kualitas\ Layanan\ (Q) = \frac{Persepsi\ (P)}{Harapan\ (H)}$$

If the value of $Q \ge 1$, then the gap in the quality of the live shopping marketplace feature is declared good. Based on the results of the calculation of service quality, the average quality of marketplace services is 0.88. The quality value of each dimension of the live shopping marketplace features can be seen in Table 4.14 below.

Table 4. 14 Calculation of Service Quality

No	Dimension	Interest (H)	Performance (P)	Gap	Q = P/H
1	Efficiency	4.45	3.58	-0.88	0.80
2	System Availability	4.39	3.52	-0.87	0.80
3	Fulfillment	4.42	3.60	-0.83	0.81
4	Privacy	4.40	3.59	-0.81	0.82
5	Responsive	4.39	3.58	-0.81	0.81
6	Compensation	4.42	3.42	-0.99	0.78
7	Contact	4.41	3.46	-0.95	0.79
	Average	4.41	3.54	-0.88	0.80

4.2.9 Data Processing Importance Performance Analysis (IPA)

After calculating and knowing the gap value of each research attribute, the next data processing is the processing of Importance Performance Analysis (IPA) data. The processed IPA data will be depicted in a cartesian diagram aimed at knowing the quadrant position of each service attribute based on the average performance level and the average expectation level.

The IPA cartesian diagram is created by dividing the chart into four quadrants with the X axis, and the Y axis, where the X axis is the average of the market performance variable attribute scores (perceptions) and the Y axis is the average attribute score of the consumer interest variable (expectation). The cartesian diagram of this study was made using IBM SPSS Statistics 26 software. The following is the result of making an IPA cartesian diagram which can be seen in Figure 4.10 below.

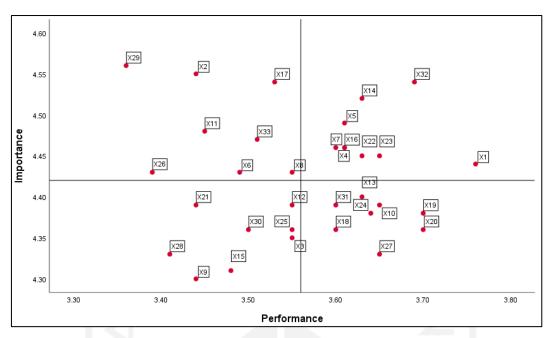


Figure 4. 50 Diagram Importance Performance Analysis (IPA)

4.2.10 Quadrant of Attributes Based on Cartesian Diagrams

Cartesian diagrams are divided into 4 (four) Quadrants, namely Kuadaran I. Attributes that fall into this quadrant require improvement with high priority. Quadrant II is the attributes that must be maintained because it is included in the advantages of the product. Quadrant III is an attribute that is considered not very important by consumers but must still be considered by producers because it affects the perceived benefits. Furthermore, Quadrant IV shows that it is not very important in the eyes of consumers and can be reduced so that losses do not occur.

1. Quadrant I: Attributes that require improvement with a high priority

A quadrant contains attributes that are considered important by consumers, but in reality, these attributes have not been as expected. In this quadrant, the marketplace must make continuous improvements so that the performance in this variable increases. The following attributes contained in the quadrant I can be seen in the following Table 4. 15:

No	Code	Attribute
1	X2	The live-streaming shopping feature can make it easier to explore live
1	ΛL	streams according to their categories
2	X6	Live-streaming shopping on Marketplace is easy to use, and
2	Λ0	understand how the products appear
3	X8	Shop live streams on a well-organized Marketplace

Table 4. 15 Quadrant I Cartesian Diagram

No	Code	Attribute
4	X11	Live-streaming shopping in the marketplace provides a variety of
4	All	purchase services with its delivery method as well
5	X17	Stock items as described and informed by live Live Hosts or live-
	Λ17	streaming shopping product storefronts on Marketplace
6	X26	Shopping live-streaming in the marketplace helps answer questions
0	A20	related to what to do if my transaction is not processed
7	X29	Shopping for live-streaming in the marketplace compensates if the
'	A29	item I ordered does not arrive on time is informed
		When shopping live-streaming shopping in the marketplace, there is
8	X33	a live host and customer service admin assistance who can
		immediately answer existing problems or obstacles

Based on the results of data processing presented in Table 4. 15 indicates that in quadrant I there are 8 attributes that require improvement with high priority.

2. Quadrant II: Attributes that must be maintained because they are included in the advantages of the marketplace.

A quadrant that contains attributes that are considered important by consumers and those attributes are in line with the performance of the marketplace. So in this quadrant, the marketplace simply maintains the performance of these attributes. The attributes in quadrant II can be seen in the following Table 4. 16:

Table 4. 16 Quadrant II Cartesian Diagram

No	Code	Attribute
1	X1	The live-streaming shopping feature in the marketplace makes it
1	Λ1	easy for me to find what I need
2	X4	Accessing live-streaming shopping information in the marketplace
	Λ4	is organized according to the direction
3	X5	Livestream shopping on Marketplace contains good pages and video
3	Λ	quality
4	X7	Shopping live-streaming in the marketplace is easily accessible
4	Λ/	quickly and precisely
5	X14	Shopping for live-streaming in the marketplace provides regular
)	A14	information along with couriers who can be contacted
6	X16	Shopping live-streaming in the marketplace sends the items that
0	Λ10	match the one I ordered
7	X22	Livestream shopping on Marketplace protects information about
/	ΛΔΔ	credit cards, accounts, and more

No	Code	Attribute
8	X23	Live-streaming shopping on Marketplace gives me clear and convenient options or explanations for the procedure for returning goods
9	X32	When we shop on live-streaming shopping on Marketplace, customers and live host involve in immersive interactive questions and answers.

Based on the results of data processing presented in Table 4. 16, it is indicated that in quadrant II there are 9 attributes, which are in line with consumer expectations but must be maintained because they are included in the advantages of products.

3. Quadrant III: Attributes that are considered not very important but must still be considered because they affect the perceived benefits

Quadrants that contain attributes that are considered less important by consumers and in performance are less special. So that the increase in variables in this quadrant can be reconsidered by the marketplace because its effect on the benefits felt by consumers is very small. The attributes in quadrant III can be seen in the following Table 4. 17:

Table 4. 17 Quadrant III Cartesian Diagram

No	Code	Attribute
1	Х3	Live-streaming shopping on Marketplace allows you to quickly complete transactions
2	X9	Shopping live-streaming in the marketplace makes transactions according to the choice of method
3	X12	Live-streaming shopping on Marketplace isn't limited by buffers or freezes after commenting or refreshing a live stream page
4	X15	Live-streaming shopping on Marketplace quickly sent me what I had ordered
5	X21	Shopping live-streaming on marketplaces does not share my personal data information (address, phone number, receipt number, etc.) with other sites
6	X25	Shopping for live-streaming in the marketplace offers guarantees and guarantees for its products
7	X28	Live-streaming shopping on Marketplace compensates for issues caused
8	X30	When shopping on a shopping live stream in the marketplace, the marketplace refunds the transaction fee for items that cannot be sent

Based on the results of data processing presented in Table 4. 17, it is shown that in quadrant III, there are 8 attributes that need to be considered by the marketplace because these attributes are considered not very important by consumers, but their benefits affect consumers.

4. Quadrant IV: Attributes that are less important and can be reduced so that the marketplace does not suffer losses

A quadrant that contains attributes that are considered less important by consumers and in the performance of the product is in a high level of satisfaction so the marketplace needs to reduce the results achieved in order to be cost-efficient. The following attributes contained in quadrant IV can be seen in Table 4. The following 18:

Table 4. 18 Kuadran IV Diagram Kartesius

No	Code	Attribute
1	X10	Live-streaming shopping on Marketplace launched and accessed
1	A 10	across many Marketplace options
		The admin of the live-streaming shopping host in the marketplace
2	X13	provides information about the estimated time the goods will be
		received
3	X18	Live live hosts honestly explain their offerings when shopping for
3	АТО	live streams on Marketplace
4	X19	Live Hosts promise accurate time in product delivery at the time of
4	A19	shopping live-streaming on Marketplace
5	X20	Live-streaming shopping on Marketplace protects customer
3	A20	shopping behavior and customer shopping history
6	X24	When shopping on live-streaming shopping on Marketplace can
0	Λ24	handle product returns well
7	X27	Shopping live streams on Marketplace immediately resolves the
	ΛLI	issue
8	X31	Shopping for live-streaming in the marketplace compensates if the
O	AJI	item I ordered does not arrive on time is informed

Based on the results of data processing presented in Table 4. 18 shows that in quadrant IV, there are 8 attributes that are less important in the eyes of consumers and can be reduced so that the marketplace can save costs to avoid losses.

4.3 Proposed Customer Journey Map Design

Based on the results of data processing, the Importance Performance Analysis of customers' live-streaming shopping changes in customer journey maps by looking at the correlation between each dimension in the quality calculation with the phase of each key component that has been analyzed. Thus, the design of CJM was carried out, which intersected with the use of live-streaming shopping carried out by the Marketplace.

Table 4. 19 Rekomendasi Customer Journey Map

	Disc	over	Con	sider	Purchase	Wait for delivery	Receive and wear/use product
Phase	Motivation	Searches for App or websites	Watch Live- streaming Shopping	Evaluates Products	Pay	Product Delivery Checking	Receives Products
Verbatim (Think)	Find the right item because it's based on the selected category	Find stores that sell similar or appropriate items in live- stream shopping	There are no buffering constraints that occur because the seller	Comparing the price of live- streaming shopping brands with non-live streams on other Marketplaces	 Does it take a long time to make a payment? Can the voucher code be used at the time of payment? 	Will the item I receive meet my expectations?	 "The item I ordered arrived quickly and without defects." "The item I ordered met my expectations."

	Disc	over	Con	sider	Purchase	Wait for delivery	Receive and wear/use product
Phase	Motivation	Searches for App or websites	Watch Live- streaming Shopping	Evaluates Products	Pay	Product Delivery Checking	Receives Products
Customers Action	- Search for product keywords in the marketplace - See the top seller and top sales product	Visiting brand social media, website, and applications that aim for	Browse all marketplaces that have the brand and are doing live- streaming shopping	Asking the live host for information about the product you want to buy and ask for a direct review	Make sure the goods have been paid for and get the order number according to the payment method chosen	Check the receipt number to find out the progress of my delivery of goods on a regular basis	 Receive the package and check the packaging in what condition Documenting the process of opening the ordered goods Give a review if the item matches what was ordered on the Marketplace where the order was placed Make a return or refund if the item does not match the order according to the procedures

	Disc	over	Con	sider		Purchase	Wait for delivery	Receive and wear/use product
Phase	Motivation	Searches for App or websites	Watch Live- streaming Shopping	Evaluates Products		Pay	Product Delivery Checking	Receives Products
Pain Points	The sellers or store is not live, and there is no live schedule	Poor-quality live-streaming shopping video	The live host did not answer in detail when asked about a review of the product they wanted to buy	The products offered are not as varied as conventional online sales	-	I find it difficult to make payments using a virtual code or other I find it difficult to make payments using a virtual code or other Unvaried payment options	- The feeling that the ordered item will arrive late - There is no update regarding the delivery of the product on the system	- Items do not match (function, physical, etc.) my expectations - There is a mistake in the size, color, and type of goods shipped
Touchpoints	- Shopee - Tiktok - Tokoped - Lazada	lia	- Shopee - Tiktok - Tokop - Lazada	edia		Bank Transfer (Direct Card, Virtual Account) E-money Retail Market (Indomart, Alfamart) COD (Cash on Delivery)	- Through the marketplace (Website or Application) - Website trace and tracking related expeditions	 Notification via marketplace WhatsApp Via courier Admin Store in Marketplace
Goals	Get the goods according to the purpose of buying it	Looking for items that match what you want based on the	The live host who can explain my confusion about the	Host Live- streaming shopping that offers the cheapest		Complete transactions and payments quickly and accurately	- Knowing the exact position of the item I ordered	Get the goods according to my orderMy item arrived

	Disc	over	Con	sider	Purchase	Wait for delivery	Receive and wear/use product
Phase	Motivation	Searches for App or websites	Watch Live- streaming Shopping	Evaluates Products	Pay	Product Delivery Checking	Receives Products
		quality and results of reviews on the appropriate live-streaming shopping	product I will buy	product prices from the results of comparisons with other Live- streaming shopping marketplaces.	- Provide information related to products that have been paid for in the form of an explanation of canceled purchases, receipt numbers, and others	- Delivery to receipt of goods is carried out according to the time informed	without errors and defects - Having the convenience of complaining to the seller's shop about the goods you want to return because of an error in the shipping or packaging process.
Ideas/Opportunity	There is an explanation of the rating on the live shopping page before continuing to enter the live stream	There is a categorization of stores that are live-streaming	Variations in sales or use of categories in each live shopping session	The live- streaming store is sure to have a clear explanation of product availability and product sales.	 Provide varied types of payments with clear procedures for each payment method Perform system maintenance so that the checkout process is fast 	Providing information on numbers that can be contacted, such as couriers or warehouses for goods storage	 Extra safe packaging so that the goods are protected Return of goods to be replaced according to the order can be done quickly, easily, and

	Disc	over	Con	sider	Purchase	Wait for delivery	Receive and wear/use product
Phase	Motivation	Searches for App or websites	Watch Live- streaming Shopping	Evaluates Products	Pay	Product Delivery Checking	Receives Products
					and smooth		safely
Emotion	9	ited		eited	Unhappy	Excited	Excited



4.4 Proposed User Interface Design

The design of the user interface proposal is used to be able to answer several obstacles by looking at the top priority in quadrant A in the Importance Performance Analysis, which has then been analyzed for its attributes to be improved through the Customer Journey Map proposal so that a user interface proposal can be made to be the answer to an improvement in appearance so that customers can feel good service quality and have an increase in satisfaction levels. In designing the researchers consider several things to support the design of the User Interface with the following details:

a. Concept

For a given concept the phone screen showcases various creative approaches to the design of buttons, menus, icons and other controls; designers implemented illustrations, split screens, trendy fonts, and other ways to make the interface not only functional but also minimalist.

b. Layout

The layout is made based on the correlation results in the CJM phase and attributes on E-Servqual, the use of the basis for the CJM phase results in a layout requirement in the form of a marketplace homepage, live-streaming shopping categorization for discover phase, landing page live-shopping and product cart for consider phase, payment variation for purchase phase, customer service menu and massage landing page for wait and delivery phase, the last one returns product for receive the product phase. The main thing to do in designing the layout is to determine the focal point in the form of color and scale, and pay attention to several things in the form of negative space to become space for breath.

c. Color

The choice of color is based on the concept, namely blue which means a positive and happy atmosphere, as well as color gradients to enhance another color in the sense of increasing the attractiveness of purchase intention

Then the resulting user interface results are as follows:

4.4.1 Recommended Category Interface

The design of the category is carried out by holding an option delivered by flash sale and voucher hub to be able to find out which stores are doing live-streaming shopping. Then a category is shown in each took that is doing live-shopping based on the category with interface details shows in table 4.20 as follows:

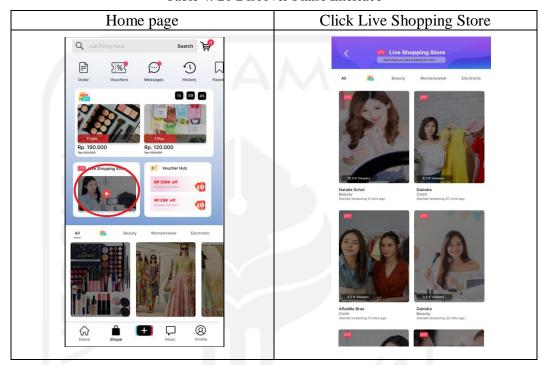


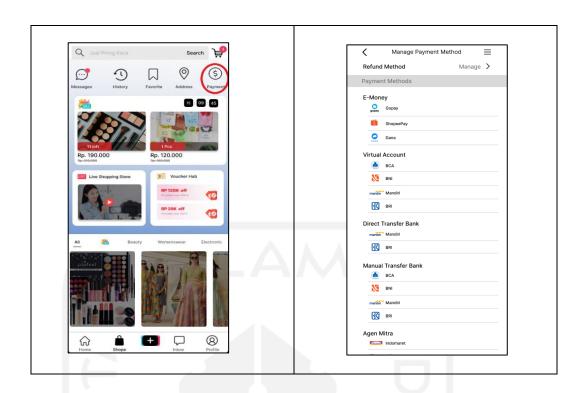
Table 4. 20 Discover Phase Interface

4.4.2 Payment Interface Recommendations

Payment design by adding a variation to payments not only via bank transfer or emoney but other offers, according to the results of the customer's interest analysis. The following in table 4.21 is a suggestion of the appearance and variation of the method provided by the marketplace:

Table 4. 21 Payment Phase Interface

Home page Click Payment



4.4.3 Compensation Interface Recommendations

For customer service proposals that help in returning goods, it is expected to be found an easily accessible section such as the homepage and continued for the option of return because the goods has arrived, which is not at the time of watching live-streaming shopping. The following in table 4.22 is a proposed interface design for live-streaming:

Home page

Click Orders

Return

Codes

Search

Codes

Nestages

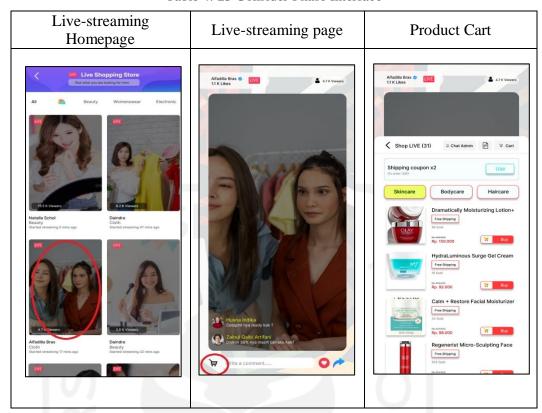
Completed

Table 4. 22 Recieve The Product Phase Interface

4.4.4 Live-streaming Page Interface Recommendations

Suggestion for live-streaming is to provide information in the form of product stock availability in stores, as well as giving categories to the product baskets offered by specifying the store you want to see and taking action to click on the product basket. In the table 4.23 is a proposed interface for live-streaming landing page:

Table 4. 23 Consider Phase Interface



4.4.5 Customer service or Admin store Interface Recommendations

Designing a user interface to access interaction with customer service to ask for details related to products or other things, which are not answered in detail by the live host, it is easy to find other admins in each store. With the choices obtained from the product basket. The following in the tabel 4.24 is a proposed interface design for customer service:

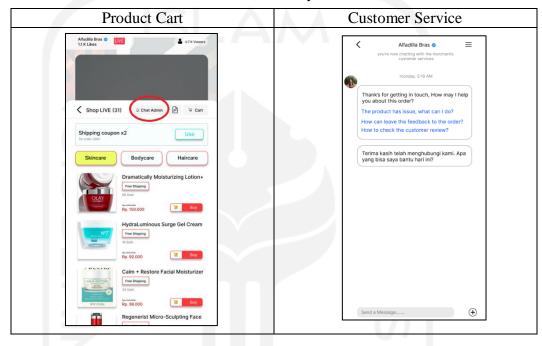


Table 4. 24 Wait for Delivery Phase Interface

CHAPTER V

DISCUSSION

This chapter contains the analysis that has been carried out based on the results of research data processing. The results of this discussion provide the expected answers in accordance with the objectives of the study.

5.1 Customer Journey Mapping Design Analysis

Customer journey mapping is widely used today as a description of the process undergone by customers while interacting with the company Currently, designing and visualizing customer experience in CJM is something that is important to do, and also, according to them, CJM is important to do in order to reach the point of customer satisfaction (Lemon & Verhoef, 2016). The satisfaction point in this study was seen based on the main factors of customers making purchases, whether from the factors of electronic service quality, promotion, and brand image. So, from these factors, the design of this CJM was carried out to see the customer's journey and shopping experience. The increasing focus on customer experience arises due to the interaction between customers and the industry (marketplace) so that it is described more complexly on the customer journey (Kvale & Folstad, 2018)

The design of customer journey mapping can be seen in table 4.18. In the design, you can see some information such as demographic data (persona), and stages consisting of discover, consider, purchase, wait for delivery, and receive and wear/use the product. At the same time, the key components consist of verbatim (think), customer actions (do), pain points (stop), touchpoints, goals, ideas/opportunities, and emotions. This design is carried out to find out the customer journey based on the use of live-streaming shopping in the marketplace.

From the customer journey design, it can be seen from the beginning, namely in the discover phase, namely the phase when customers start thinking about where to buy and what to buy, usually what customers do is look at social media to see the types of goods to be purchased, visit marketplace websites with media that are usually used are TikTok, Shopee, and Tokopedia, the emotions felt by customers are neutral for various reasons, namely because the goods offered by Live hosts are not an item that customers need.

The next phase is the Consider phase, which is considering. Usually customers will consider several things, such as promotional offers, discounts, free shipping, and marketplace imagery, and compare based on product reviews. After customers think about their considerations, they usually will do other related activities, something as visiting the brand's social media accounts to find out the promo offered, then asking the live host for information on the assembled product and asking for a direct review by media that is commonly used, such as TikTok, Tokopedia, Lazada and Shopee. Generally, the customers compare 4 marketplaces. The goal that customers want to achieve is to find a Live-streaming shopping host that offers attractive discount vouchers every session. The emotion that customers feel in this phase is excitement because the majority of stores provide special discounts during live-streaming.

The purchase phase is the purchase phase. In this phase the customer will think about whether it takes a long time to make a payment, whether the voucher code can be used at the time of payment, whether the purchase process will take place smoothly, whether there are many choices of payment methods, then the customer will make a purchase by entering the voucher code to get a discount and free shipping. The goal that customers want to achieve is to get free shipping. However, in this phase, there are obstacles that are usually felt by marketplace users when live-streaming shopping on the marketplace, namely payment options that are not varied, then it is difficult to make payments using virtual codes and others. So at this stage, there are several suggestions given, namely providing varied types of payments and carrying out system maintenance. The emotions felt in this phase are unhappy because this is the toughest phase that customers have to go through, in which customers have to spend their money to buy goods offered.

The wait-for-delivery phase is the phase of waiting for the goods to arrive to the customer. In this phase, the customer will think about whether the delivery will last a long time, whether the goods delivered will arrive according to the time that been informed and the goods are in accordance with expectations, and whether the receipt number has been available during the delivery process. Then, customers will check the receipt number to find out the whereabouts of the goods ordered through the marketplace application and expedition website with the aim of knowing the accurate position where the

goods they ordered are. However, there are some obstacles that are usually felt by customers, namely the feeling that the goods that the customer ordered will arrive late, then not up to date the position of the goods on the system. The emotions felt by customers in this phase are excitement because the goods will arrive soon and feel excited because customers can track their orders with the receipt number obtained.

The receive and wear/use product phase usually in this phase the customer will think that the goods received are not in accordance with what was ordered, which will be done by the customer usually checking the packaging and documenting during the process of opening the ordered goods, with the aim that the pliers' goods are ordered until without errors and defects, and get the goods that match the order. The media used by customers in this phase is a marketplace notification that the goods have arrived and Whatsapp. However, there are usually obstacles felt by customers, such as goods that do not match expectations, errors in the size, color, and type of goods, and damage to goods, so that advice is given if something goes wrong, the process of returning goods and funds takes place quickly and safely. The emotion felt by customers in this phase is excitement because they receive the goods in accordance with expectations.

5.2 Analysis of Gap Electronic Service Quality (E-SERVQUAL)

Based on the processing of e-servqual gap data carried out, further discussions will be carried out regarding the results of the processed e-servqual data. The discussion included the attributes of what questions have the highest gaps, what dimensions of e-servquals have the highest gaps, and how the quality of marketplace services is felt by consumers.

5.2.1 Analysis of the Gap between Importance and Performance

Calculating the gap between consumer interests and marketplace performance will illustrate how the condition of the quality of marketplace services. If the gap value has a positive value, it can be said that the quality of marketplace services provided to consumers is good. However, if the gap value has a negative value, then the quality of services provided by the marketplace has not met consumer expectations and needs to improve quality so that it can meet consumer expectations.

1. Efficiency Dimension

The dimension of efficiency in the e-servqual method of this study is defined as the speed and ease of accessing marketplace sites. The Interest of consumers using the marketplace is to simplify transactions that are more practical so that consumers are facilitated by using the marketplace. This then becomes one of the dimensions that is considered important for consumers. The results of the gap analysis calculation show that the X2 attribute, namely the live-streaming shopping feature, can make it easier to explore live-streaming according to its category to the top of the order because it has a gap value of -1.11. This is supported by the experience of consumers who feel difficulty in understanding the appearance so that it takes some time to find the desired store or product. Some consumers have complained that the content of the live stream interface on Marketplace contains pages and video quality that is not good for the site. Complaints about the use of marketplace site filters are also widely heard. Many consumers complain about the failure of the filter function to narrow the search for the desired goods, and this creates difficulties for consumers to find goods and stores that match the desired specifications and more or less affects the ease and speed of consumers in finding the goods needed to find out more about the stores that are live-streaming. Some consumers also complain about the constraints of completing transactions quickly.

2. System Availability Dimension

The dimension of system availability in the e-servqual method of this study is defined by whether consumers experience the entire technical function of the marketplace site running correctly or not. The results of the gap analysis calculation show that the X11 attribute, namely Live-streaming shopping in the marketplace, provides various purchase services with its delivery method as well, being the top order because it has a gap value of -1.03. This happens because of the experience of consumers who complain several times about shipping through logistics that do not have many choices.

3. Fulfillment Dimensions

The dimension of fulfillment in the e-servqual method of this study is defined by how the marketplace site meets expectations or expectations in all sorts of transactions, delivery, and availability of goods or services. The results of the gap analysis calculation show that the X17 attribute, namely the stock of goods as described and informed by the live live host or storefront of live-streaming shopping products on the Marketplace, is the top order because it has a gap value -1.01. Information on the availability of goods is also a concern for consumers, several times experiences have been found about the difference between the information on the stock of goods in the marketplace, which in fact, the stock of goods has actually run out. This causes consumer discomfort and disappointment because they fail to get the desired goods. Basically, the marketplace has provided and interfaced estimates of goods sent by sellers and will be received by consumers; it's just that some consumers still experience packaging times that take a long time and also delays in goods reaching consumers. There are even consumers who experience that the goods are not sent without confirmation to consumers, so there are problems with the return of fees that have been paid.

4. Privacy Dimension

The dimension of privacy in the e-servqual method of this study is defined by whether the provision of security guarantees for consumers' information or personal data is felt directly by consumers. The results of the gap analysis calculation show that the X21 attribute, namely the Marketplace does not share customer personal information with other sites, is the top order because it has a gap value -0.95. Some consumers admitted that they are still not very sure about the privacy rights of consumer personal data information provided by the marketplace to consumers, this happens because consumers feel that the marketplace still does not provide strong guarantees for the security of consumers' personal information.

5. Responsiveness Dimension

The dimension of responsiveness in the e-servqual method of this study is defined by how marketplace sites Respondents quickly so that consumers become the top priority of marketplace services. The results of the gap analysis calculation show that the X26 attribute, namely Shopping live-streaming in the marketplace, helps answer questions related to what to do if customer transactions are not processed, being the top order because it has a gap value -1.04. The cause of this dissatisfaction is influenced by several factors, including the availability of online customer service on the site, so that it has not been able to immediately report the problems that occur; there is no firmness of the marketplace towards the seller who causes the problem and does not immediately fix it. Some consumers admitted that they had difficulty in carrying out the product return process due to the seller's fault, but the seller could not be cooperative and consumers did not get a solution from the marketplace for the problem that occurred.

6. Compensation Dimension

The dimension of compensation in the e-servqual method of this study is defined by how the management of the marketplace site compensates customers in case of problems that are felt directly by consumers. Based on the results of the gap calculation, the analysis shows that this dimension is the dimension that has the highest gap value and the X29 attribute, namely the marketplace site, compensates customers when what the Customer ordered did not arrive on time, becoming the top order because it has a gap value -1.20. This can happen because the marketplace site has interfaced an estimated packaging time and an estimated time for the goods to arrive. It's just that in reality, there is still a lot of packaging time or time for goods to be late from the estimate, giving the impression of discomfort to consumers and the absence of compensation given. For the mistakes that arise, many consumers argue that compensation is almost never obtained. However, some consumers also state that sellers whose goods they buy provide compensation to consumers, such as being given discounts or refunds with conditions and can even make refunds of transaction fees for goods that cannot be sent. This indicates the presence of inconsistencies in the compensatory dimension.

7. Contact Dimensions

The contact dimension in the e-servqual method of this study is defined by the availability of customer service (customer service) on a marketplace site by telephone or representative in an area. The results of the gap analysis calculation show the X33 attribute, namely, when shopping on live-streaming shopping in the marketplace, there is a live host and customer service admin assistance that can immediately answer existing problems or obstacles, becoming the top order because it has a gap value -0.96. Consumers who have problems in the marketplace independently contact customer service, whose contacts are listed on the marketplace site. However, customer service contacts on marketplace sites are not always found easily, so some consumers cannot quickly contact customer service. Some of these consumers argue that it might be better if there is a separate section that provides online interactive chat available on the marketplace site.

8. Overall Gap

The highest to lowest e-servqual dimension gap values are the compensation dimension, Responsiveness dimension, Contact dimension, Fulfillment dimension, System availability dimension, Privacy dimension, and Efficiency dimension. Processing results can show the top five rankings of attributes with the largest gap values:

- a. The marketplace site compensates the Customer when what the Customer ordered does not arrive on time (X29). The provision of compensation from the marketplace when the ordered goods did not arrive on time became a satisfaction for the consumer, but in fact, the consumer felt that the performance of this attribute was still below the marketplace site compensated the Customer when what the customer ordered did not arrive on time (X29) Compensation from the marketplace when the ordered goods did not arrive punctuality is a satisfaction for consumers, but in reality, consumers feel that the performance of this attribute is still below.
- b. Marketplace sites give customers difficulties in approaching the shopping feature using live-streaming (X2), consumers feel that the performance of this attribute is still below their importance, or in other words, the marketplace so far has not provided the

- convenience of the interface that should be the most important thing for customers to access it.
- c. Marketplace sites are addressing issues with immediate (X26) live-streaming shopping in the marketplace, helping to answer questions related to what to do if my transaction is not processed. In fact, the performance of the marketplace in answering questions related to what to do if my transaction is not processed immediately is still under its priority, so consumers are still dissatisfied. This happens when the live host answers questions immediately, and the marketplace's decisive action against the seller, which causes a lack of satisfaction with the service, has not been handled properly.
- d. The marketplace site handles product returns well (X11) and Provision of various purchasing services with its shipping methods as well. This has more or less an effect from the previous X29 attributes on compensation for problems caused and compensation when ordered goods do not arrive on time. The realization of handling product returns properly is not felt by consumers because the application is not yet good. The poor handling of returns is illustrated by the difficulty of consumer communication with sellers to submit existing complaints.
- e. The marketplace is clear about stock availability (X17). Honesty and suitability of the marketplace about stock items as described and informed by live Live Hosts or storefronts of live-streaming shopping products on the Marketplace are considered important by consumers. Information on the availability of the goods in question when shopping is listed in stock and when there is a promo with limited time; provide information on the amount of stock with honesty.

5.2.2 Marketplace Service Quality Analysis

In calculating the quality of marketplace services, the formula for the value of perception or marketplace performance is used, divided by the value of expectations or consumer interests. If the value of $Q \ge 1$, then the gap in the quality of service of the company is declared good. The results of the

calculation of the quality of marketplace services obtained an average value of 0.80 with a gap value of -0.88. Based on these results, it can be said that the level of quality of marketplace services felt by consumers is not good because the average value is still below 1, and the gap value is still showing a negative value. The value of service quality in each dimension also still shows below 1, which means that each dimension of service still cannot be said to be good. Based on the calculation results, the best to not good quality value is the efficiency dimension with a value 0.80; the Privacy dimension with a value 0.82; the dimensions of system availability with a value 0.80; fulfillment dimension with a value 0.81; the contact dimension is 0.72 and the responsiveness dimension with a value 0.81; and the Compensation dimension with a value 0.78.

5.3 Analysis Importance Performance Analysis (IPA)

The IPA cartesian diagram is created by dividing the chart into four quadrants with the X axis, and the Y axis, where the X axis is the average of the market performance variable attribute scores (perceptions) and the Y axis is the average attribute score of the consumer interest variable (expectation).

1. Quadrant A (Top Priority)

Quadrant A has a high level of importance, but in reality, the performance perceived by customers is still low and unsatisfactory. This quadrant is considered a very important factor, so the factors contained in this quadrant can be the top priority for improvements to be made by the marketplace. Based on the appearance of attributes X2, X6, X8, X11, X17, X26, X29, and X33 in the results of IPA calculations, it can be concluded that the attributes that need to be maintained in quadrant A are:

a. Efficiency dimension: there are three of the eight attributes in this dimension appear in quadrant A. This illustrates that the efficiency dimension is a dimension that needs to be improved in the marketplace to improve consumer satisfaction. Improvements that can be made by the marketplace include the ease of consumers in using the marketplace site, a well-organized marketplace, and easy browsing the site, need to be improved so that consumers are comfortable and loyal in using the marketplace.

- b. System availability dimension: there is one attribute in this dimension
 that is something that needs to be improved, at least in the marketplace.
 Improvements or improvements include providing purchase services
 that vary with the method of financing as well.
- c. Fulfillment dimension: in this dimension, there is also one attribute that is included in quadrant A and is something that needs to be considered to be improved by the marketplace, especially in the live-streaming feature, including being explained and informed by the live host or storefront of live-streaming shopping products.
- d. Responsiveness dimension: In this dimension there is also one attribute (X26) which is included in the top priority quadrant and is something that needs to be considered to be improved by the marketplace, especially in the live-streaming feature, including helping to answer questions related to what to do if the transaction is not processed.
- e. Contact Dimension: In this dimension, there is one attribute of the X33 that is expected to be improved in performance, including the existence of a live host and customer service admin assistance that can answer problems or obstacles that exist immediately.
- f. Compensation Dimension: The last dimension that is one of the top priorities that can be improved is that there is one X29 attribute that explains the compensation if the ordered goods do not arrive on time as informed.

If these attributes are not met, it is feared that it will cause resentment by consumers and end up with their switch to another place.

2. Quadrant B (Maintain Achievements)

This quadrant B has an equally large level of importance and performance, so it is considered important and expected that has successfully met customer expectations or expectations. This quadrant is also considered important to continue to maintain the achievements that have been achieved by the marketplace so that it does not decrease and affect consumer satisfaction and the quality of marketplace services. Based on the appearance of attributes X1, X4, X5, X7, X14, X16, X22, X23, and

X32 in the results of IPA calculations, it can be concluded that the attributes that need to be maintained in quadrant B are:

- a. Efficiency dimension: there are four of the eight attributes in this dimension that appear in quadrant B, this illustrates that the efficiency dimension is an advantage in the marketplace according to consumers. The advantages of the marketplace include the ease of consumers in using the marketplace site, ease of finding what is needed, information on the live-streaming shopping marketplace according to what is provided or the products offered, as well as access and live-streaming shopping on the marketplace containing pages and good video quality needs to be maintained so that consumers are comfortable and loyal in using the marketplace.
- b. Fulfillment dimension: there are two attributes in this dimension that are the advantages of the marketplace and seeking to continue to improve their achievements. Advantages include the availability of a marketplace for live-streaming shopping on the marketplace. When sending goods, it provides tracking information options and provides information periodically accompanied by couriers who can be contacted.
- c. Responsiveness Dimension: in this dimension, there are also two attributes that are included in quadrant B and are the advantages of the marketplace. The advantage is to give me a clear and convenient option or explanation for the procedure for returning goods.
- d. Privacy dimension: one attribute of this privacy dimension falls into quadrant B. which means that this dimension is one of the advantages of the marketplace according to consumers and must be maintained. The advantages in question are the protection of credit card and account information and the keeping of consumers' personal information confidential on other sites. It affects consumer confidence in the marketplace as a medium for business transactions.

3. Quadrant C (Low Priority)

Quadrant C is the opposite of quadrant B, where this quadrant has the same low level of importance and performance. Factors that fall within this quadrant have low satisfaction levels but are not considered too important

to customers, so they don't need to be prioritized too much by the marketplace. Based on the appearance of attributes X3, X9, X15, X21, X25, X28, and X30 in the IPA calculation results, it can be seen that only the contact dimension whose attributes do not appear in quadrant C. This is in line with the inclusion of all privacy dimension attributes in quadrant B (maintain performance). Then it is concluded that the attributes that have a low priority in quadrant C are:

- a. Efficiency dimension: there is one attribute of this dimension that is a low priority, namely Live-streaming shopping on the marketplace allows you to complete transactions quickly. Although there are still complaints heard about this attribute, in reality it is one that falls into low priority.
- b. System availability dimension: this dimension has one attribute that falls into quadrant C, the attribute is Live-streaming shopping on the marketplace that is not constrained by buffers or crashes after commenting or refreshing the live-streaming page.
- c. Fulfillment dimension: in this dimension, there is one attribute that becomes a low priority of the marketplace, namely live-streaming shopping on the marketplace, quickly sending what has been ordered.
- d. Responsiveness dimension: one of the five attributes of this dimension is a low priority of the marketplace, namely the provision of convenient options for returning goods, good handling of product returns, offering guarantees or warranties, and handling problems promptly.
- e. Dimension compensation: one attribute of this dimension is a low priority for the marketplace; that is, when participating on live-streaming shopping in the marketplace, the marketplace refunds the transaction costs of goods that cannot be sent.
- f. Privacy dimension: in this dimension, there is one of three attributes that appear to be a low priority of the marketplace, namely, the marketplace does not share my personal data information (address, phone number, receipt number, and others) with other sites.

4. Quadrant D (Tends to be Excessive)

This quadrant D has a low level of importance but high performance so it is considered excessive. Marketplaces can reduce the quality improvement of attributes contained in this quadrant and can shift them to quadrant A which is prioritized for improving the quality of its services. it is concluded that the attributes that have a low priority in quadrant D are:

- a. Efficiency dimension: there is one attribute of this dimension that is a low priority, namely Live-streaming shopping on marketplaces launched and accessed in many marketplace options, in fact, this attribute is one that enters into things that tend to be excessive.
- b. System availability dimension: this dimension has one attribute that falls into quadrant D, and that attribute is The live host honestly explains its offer when live-streaming shopping in the marketplace.
- c. Fulfillment dimension: in this dimension, there is one attribute that is a feature that is quite redundant to the marketplace, namely the live host promises an accurate time in product delivery when live-streaming shopping in the marketplace.
- d. Responsiveness dimension: one of five dimension attributes that tend to be redundant to features in the marketplace, namely When shopping on live-streaming shopping in the marketplace can handle product returns well.
- e. Contact Dimension: In this dimension, there is one attribute that is expected to be maintained or not too much of a performance priority, including when shopping on live-streaming shopping in the marketplace will inform the live host who continues to customer service to contact if there are problems.
- f. Privacy dimension: in this dimension, there is one of three attributes that appear to be Quadrant D or excessive, namely Live-streaming shopping in the marketplace will protect customer shopping behavior and customer shopping history.

5.4 Analysis of Customer Journey Mapping Design Proposals

The design of the CJM proposal was carried out based on the correlation between the dimensions and attributes in the e-servqual and the phase on the customer journey map. The proposed customer journey mapping can be seen in table 4.18. In the design, you can see some information such as demographic data (persona), stages consisting of discover, consider, purhase, wait for delivery, and receive and wear/use the product. While, the key components consist of verbatim (think), customer actions (do), pain points (stop), touchpoints, goals, ideas/opportunities and emotions. This design is carried out to find out the customer journey based on the use of live-streaming shopping in the marketplace.

From the customer journey design, it can be seen from the beginning, namely in the discover phase, namely the customer phase, starting to think about finding the right item because it's based on the selected category, finding stores that sell similar or appropriate items in live-stream shopping, visit marketplace websites with media that are usually used are Shopee, Tiktok, Tokopedia, and Lazada. The emotions felt by customers are excitement because it is expected that when searching, customers feel the ease of use of marketplace browsing and find suitable stores to continue the phase consider.

The next phase is the consider phase, which is considering. Usually, customers will watch live-streaming shopping activities considering through there are no buffering constraints that occur because the seller and also customers think about considerations related to product clarity by comparing the price of live-streaming shopping brands with non-live streams on other Marketplaces after customers think about their considerations usually customers will do something like Browse all marketplaces that have the brand and are doing live-streaming shopping, and then Make sure the goods have been paid for and get the order number according to the payment method chosen. The use of media, that is usually used is the marketplace application itself, namely Shopee, Tiktok, Tokopedia, and Lazada. Commonly, customers compare 4 marketplaces. The goal that customers want to achieve is the live host who can explain my confusion about the product customer will buy and host Live-streaming shopping that offers the cheapest product prices from the results of comparisons with other Live-streaming shopping marketplaces. The emotion that customers feel in this phase is excited because the majority of stores provide special discounts during live-streaming. However, there is a customer fear in this phase including the live host did not answer in detail when

asked about a review of the product wanted to buy and the products offered are not as varied as conventional online sales.

The purchase phase is the purchase phase, in this phase, the customer will think about whether it takes a long time to make a payment and whether the voucher code can be used at the time of payment. Then, the customer will do Make sure the goods have been paid for and get the order number according to the payment method chosen. The goal that customers want to achieve is complete transactions and payments quickly and accurately and provide information related to products that have been paid for in the form of an explanation of canceled purchases, receipt numbers, and others. So at this stage, there are several suggestions given, namely, provide varied types of payments with clear procedures for each payment method and perform system maintenance so that the checkout process is fast and smooth. The emotions felt in this phase are unhappy because in this phase is the toughest phase that customers have to go through, where customers have to spend their money to buy goods offered by Host Live.

The wait-for-delivery phase is the phase of waiting for the goods to arrive to the customer, in this phase usually the customer will think about whether the delivery will last a long time, whether the goods delivered will arrive according to the time that has been informed and the goods are in accordance with expectations. Then, the customer will check the receipt number to find out the progress of my delivery of goods on a regular basis. However, there are some obstacles that are usually felt by customers, namely the feeling that the ordered item will arrive late and there is no update regarding the delivery of the product on the system. The emotions felt by customers in this phase are excitement because the goods will arrive soon and feel excited because customers can track their orders with the receipt number obtained.

Fase receive and wear/use product biasanya pada fase ini pelanggan akan berpikir the item I ordered arrived quickly and without defects, dan the item I ordered met my expectations. dengan tujuan get the goods according to my order, the item arrived without errors and defects, dan having the convenience of complaining to the seller's shop about the goods you want to return because of an error in the shipping or packaging process. Usually the media used by customers in this phase are marketplace notifications that the goods have

arrived and whatsapp. However, usually there are obstacles that are felt by customers such as items do not match (function, physical, etc.) my expectations, and there is a mistake in the size, color, and type of goods shipped. Emosi yang dirasakan oleh pelanggan pada fase ini adalah excited karena menerima barang sesuai dengan ekspektasi. Namun ada ada beberapa saran pada tahap ini yaitu extra safe packaging so that the goods are protected, dan return of goods to be replaced according to the order can be done quickly, easily, and safely.

5.5 Analysis of Proposed User Interface Design

The design of a proposed user interface in the case of live-streaming shopping is based on the results of the e-servqual analysis with its attributes that need to be improved in the analysis that has a correlation to the customer journey maps phase. Researchers provided three interface proposals, including categorizing live-streaming shopping stores, payment variations, and customer service interfaces.

The creation of an interface that starts with the homepage is related to the discovery phase where customers think about live-streaming shopping in a well-organized marketplace supported by several e-servqual attributes. Creating a live shopping store with categorization can make it easier for customers to search according to their category.

The proposal in the form of payment variations was made because it answered the X11 attribute, namely live-streaming shopping on the marketplace providing purchase services that vary with the method of payment as well, by providing variations later when making payments customers do not feel limitations, and can also be managed to become the main payment method.

The last is the answer to a contact dimension where customers want convenience according to the X33 attributes when shopping on live-streaming shopping in the marketplace; there is a live host and customer service admin assistance that can answer existing problems or obstacles immediately, then customers can go through the homepage to immediately see orders that want to be on the return.

An important suggestion is also to look at the consideration phase, where the customer watches in more detail about the items to be purchased. Therefore an interface proposal is given by adding a product cart and containing a complete selection of product categories to answer a top priority on the X17 attribute, with an explanation of the amount of stock, sold and the availability of the products offered.

Of course, it can't be separated from the phase when the customer has difficulty, and the live-host cannot answer in detail, so an admin is needed who is also active during the live-streaming. This attribute is similar to X33. The need for a contact person in each store to have services that are in accordance with customer interests.



CHAPTER VI

CONCLUSIONS AND SUGGESTIONS

This chapter contains conclusions that answer the formulation of the problem and prove existing hypotheses, and contains suggestions and recommendations for further research based on research that has been carried out.

6.1 Conclusion

- 1. The design of customer journey mapping in this study was carried out with the help of customer information in the use of a live-streaming shopping marketplace feature so that an optimal CJM design was obtained intended for marketplaces with live-streaming shopping features. CJM design uses phase and key components. With phases that include discover, consider, purchasing, wait for delivery, and receiving and wear/use the product. The key components used are verbatim (think), customer actions (do), pain points (stop), goals, touchpoints, emotions, and ideas /opportunities. From the CJM design, it shows how the customer journey of the customer journey is optimal for similar industry players and can be improved through recommendations provided through ideas/opportunities so that similar industries can provide a more optimal customer experience and continue to improve their features to become one of the optimal media marketing.
- 2. The top priority (quadrant A) of improving and improving service quality is that attribute three of eight are dimensions of efficiency, namely X6 about Live-streaming shopping on the marketplace is easy to use and understand how it looks, X2 about The live-streaming shopping feature can make it easier to explore live-streaming according to its category, X8 Live-streaming shopping on a well-organized marketplace, then there is a fulfilment attribute with attribute number X17 about The stock of goods as described and informed by the live host or storefront of live-streaming shopping products on the marketplace, as well as the responsiveness with the attribute number X26 explaining about Live-streaming shopping in the marketplace helps in answering questions related to what to do if my transactions are not processed, System availability on X11 is a live-streaming shopping on the marketplace providing purchase services that vary with the method of payment as well, with the X33 contact attribute about customer service admin assistance that can answer existing problems

- or obstacles immediately, and compensation on attribute X29 if goods do not arrive on time which is informed of the things described based on the results of the calculation of the value of importance performance analysis.
- 3. The user interface provided is based on what needs improvement according to the results of the Importance performance analysis and can also be correlated with customer journey maps because the interface is done by looking at the phases carried out by customers. In this study, five things that can be recommended for improvement are categorization when you want to determine the live stream shopping store, then payment, and after that, the return of goods, product cart, and customer service. Providing recommendations through the homepage is carried out because of the efficiency dimensions provided by the marketplace for its customers.

6.2 Suggestion

- 1. The live-streaming shopping feature must be able to consistently improve the attributes that are the top priority and consistently maintain the performance that has made consumers feel quite satisfied. The livestreaming shopping feature on the marketplace is scheduled to always provide feature polls on customer satisfaction and can also improve the appearance of live-streaming shopping by category as well as improved customer services.
- 2. In collecting data, the next customer journey can use other data collection media besides questionnaires, namely FGD or interviews with only a few prospective respondents, so that they can gain insight through practice and conduct discussions so that the answers obtained are more advanced and interviews so that the answers obtained are deeper and interaction occurs.
- 3. For further research, it is recommended to expand the addition of samples so that the research results are more representative, especially questionnaires in the form of online forms, use or add different analytical techniques to see the quality of marketplace services. It can provide a correlation between the front operation of a live-streaming shopping and the back operation.

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APPENDIX

A. Customer Journey Maps Questionnaire

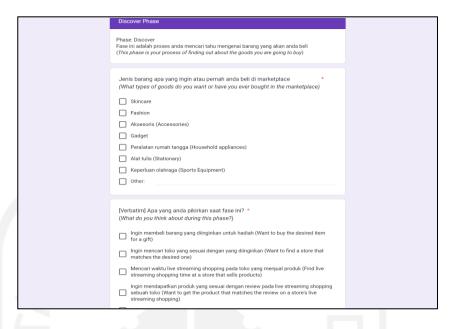
Phase	Key Component	Question
	Verbatim (Think)	What do you think about during this phase?
		Before you buy the items, you want through live-
	Customer Actions	streaming shopping, what are the actions you
		usually do?
		What are some doubts or doubts that you usually
	Pain Points	feel before buying product on the use of live-
Discover	G 1	streaming shopping?
	Goals	What are your goals for this phase?
		What media do you usually use in this phase?
	Touchpoint	What feelings or emotions do you feel in this
		phase?
	Idaas/Onnantunities	What are your right inputs or expectations for
	Ideas/Opportunities	this phase based on how you feel or have never felt?
1		What usually makes you consider / do in
1	Verbatim (Think)	consideration of buying product during live-
10)		streaming shopping on Marketplace?
		In this consideration phase, how do you usually
	Customer Actions	determine which live stream in the marketplace
1.7		you are going to buy product?
	D 1 D 1 .	What are some doubts or doubts that you usually
	Pain Points	feel before buying product on the use of live-
Consider	C1-	streaming shopping?
	Goals	What are your goals for this phase?
		In determining where to live-stream shopping in a marketplace where you interact and shop, what
	Touchpoint	marketplaces do you usually visit?
		What emotions do you feel in this phase
		What are your right inputs or expectations for
	Ideas/Opportunities	this phase based on how you feel or have never
11 (1)	тасав/ орроганиев	felt?
	Mandani (IDI 1.1)	What do you usually think about during this
""	Verbatim (Think)	phase?
	Customer Action	What are you doing in this phase?
	Pain Points	What are the obstacles that exist in this process?
	Goals	What are your goals in this phase?
Purchase		What do you usually make purchases of product
	Touchpoint	through?
	Touchpoint	What feelings or emotions do you feel in this
		phase?
	Ideas / Opportunity	What are your right inputs or expectations for
		this phase based on how you feel?
Wait For	Verbatim (Think)	What do you think of this process?
Delivery	Customers Action	In this process what do you usually do?

Phase	Key Component	Question
	Pain Points	What are the obstacles you usually feel in this phase?
	Goals	What are your goals in this phase?
		Usually where do you check the receipt number?
	Touchpoint	What feelings or emotions do you feel in this phase?
	Ideas/Opportunity	What are your right inputs or expectations for this phase based on how you feel?
	Verbatim (Think)	What do you usually think about in this phase?
	Customer Action	What are you doing in this phase?
Receive	Pain Point	What are the obstacles you usually feel during this phase?
and	Goals	What are your goals in this phase?
Wear/Use the	Touchnoint	Usually through what media do you find out that your order has arrived?
Product	Touchpoint	What feelings or emotions do you feel in this phase?
\ \	Ideas /	What are your right inputs or expectations for
1/0	Opportunities	this phase based on how you feel?

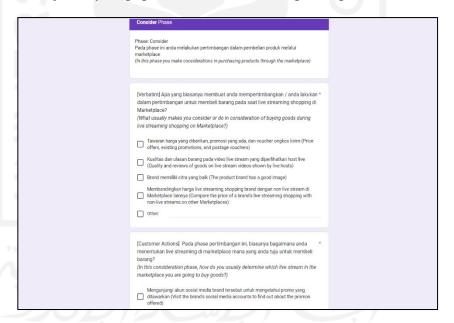
B. Customer journey map questionnaire **demographic** questions

Jenis Kelamin (Gender) * Choose ▼
Usia (Age) * Choose
Pekerjaan (Occupation) * Pelajar (Student) Karyawan Swasta (Private sector employee) Mahasiswa (Student College) Wiraswasta (Entrepreneur) Bu Rumah Tangga (Housewife) Other:
Domisili (Domicile) * Choose

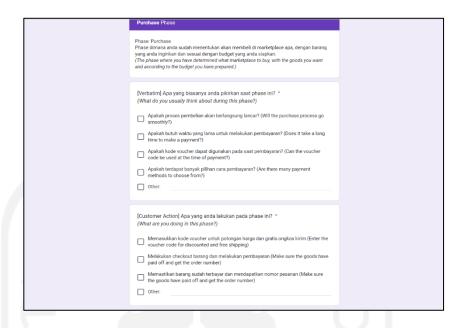
C. Customer journey map questionnaire **Discover** phase questions



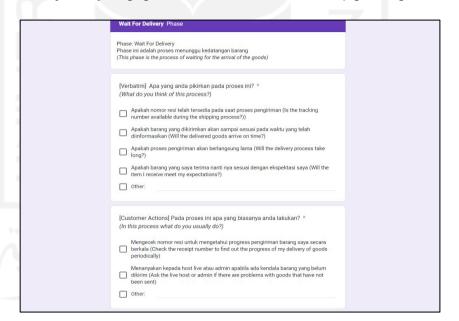
D. Customer journey map questionnaire Consider phase questions



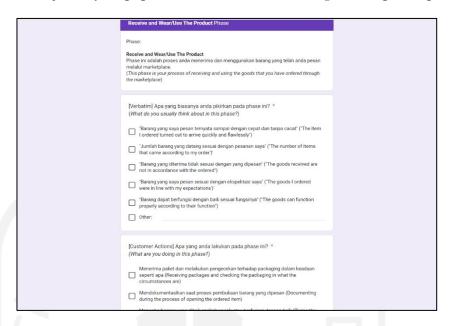
E. Customer journey map questionnaire **Purchase** phase questions



F. Customer journey map questionnaire Wait for Delivery phase questions



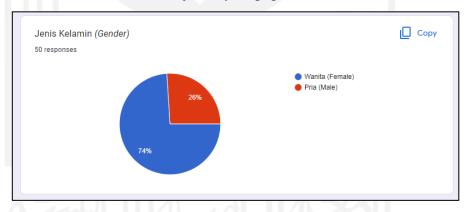
G. Customer journey map questionnaire Wear/Use the product phase questions



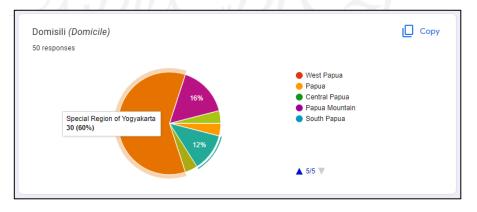
H. Google Form Link of Customer journey map questionnaire

https://bit.ly/CJM LiveShopping

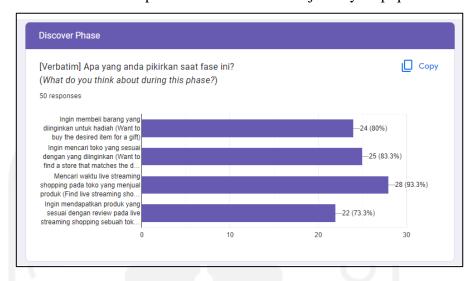
I. Gender Result of Customer journey map questionnaire



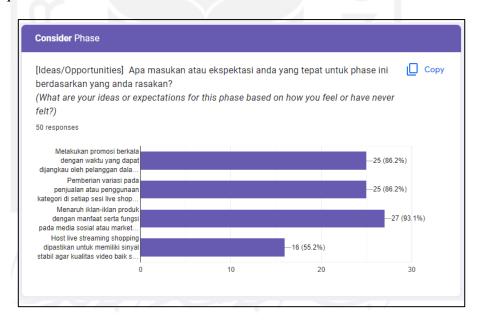
J. Domicile Result of Customer journey map questionnaire



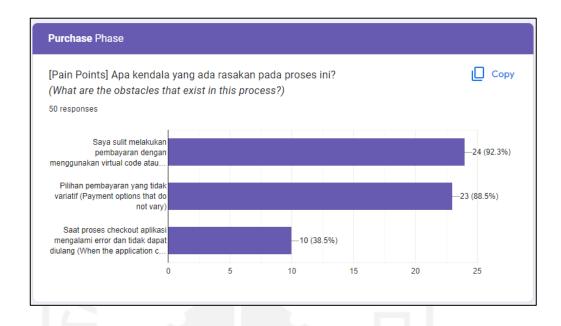
K. Verbatim in discover phase result of Customer journey map questionnaire



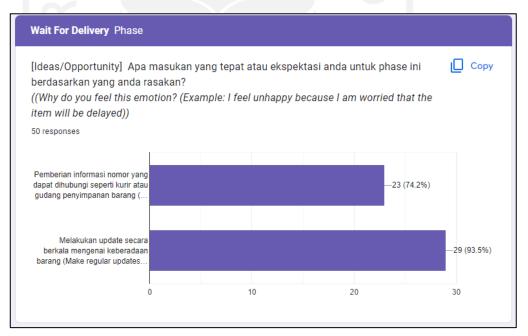
L. **Ideas/Opportunities** in consider phase result of Customer journey map questionnaire



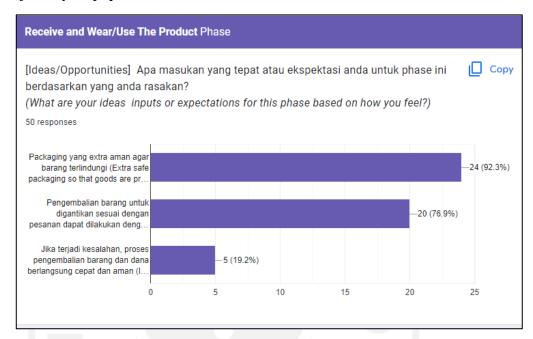
M. Pain points in purchase phase result of Customer journey map questionnaire



N. **Ideas/Opportunities** in wait for delivery result phase result of Customer journey map questionnaire



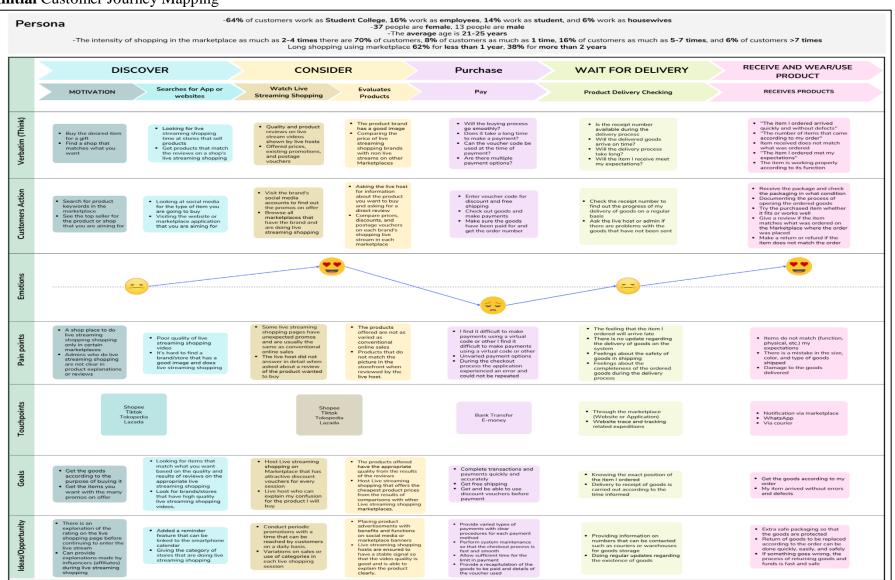
O. **Ideas/Opportunities** in **Receive product** result phase result of Customer journey map questionnaire



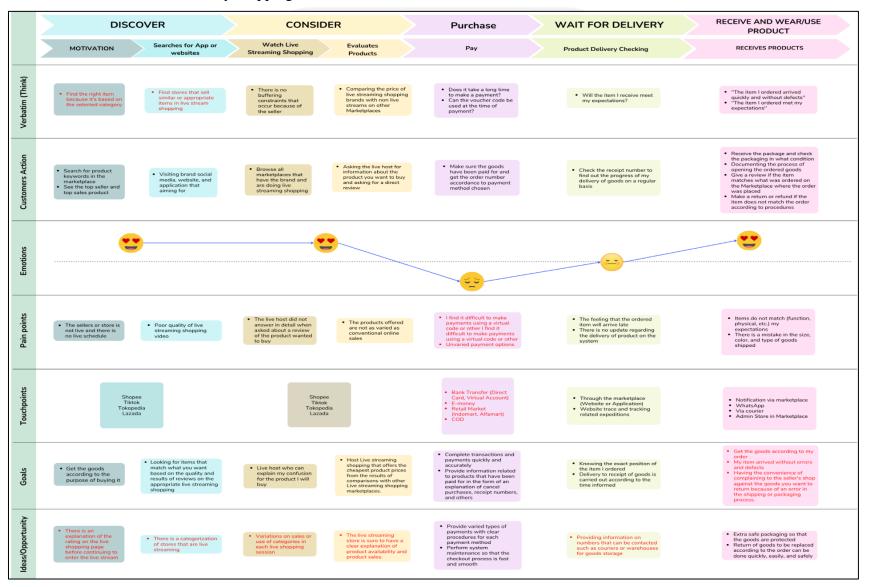
P. Result of Customer journey map questionnaire

Link: https://docs.google.com/spreadsheets/d/1d1yo1n-cCj5-
U6WI05uFlL7BOzZmkRb1tHTemiPm_KU/edit#gid=1870814238

Q. Initial Customer Journey Mapping



R. **Recommendation** Customer Journey Mapping



S. Electronic Service Quality Questionnaire

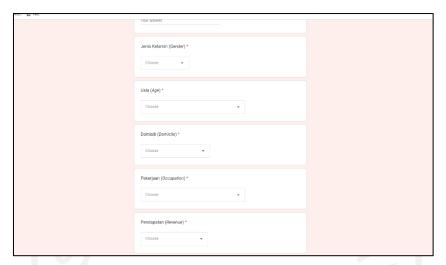
NT.	Dimensions of E-		Doggoval attailant
No	Servqual		Research attributes
		1	The live-streaming shopping feature on
			the marketplace makes it easy for me to
			find what I need
		2	The live-streaming shopping feature can
			make it easier to explore live streams
		51	according to their categories
	l W	3	Live-streaming shopping on the
			marketplace allows you to complete
			transactions quickly
		4	Accessing live-streaming shopping
			information on the marketplace is
1	Efficiency		regulated according to the direction
		5	Live-streaming shopping on the
			marketplace contains pages and good
			video quality
		6	Live-streaming shopping on the
			marketplace is easy to use and
	15		understand how it looks
		7	Live-streaming shopping on the
			marketplace is easy to access quickly
		11	and appropriately
		8	Live-streaming shopping marketplace
	2611	0	on a well-organized
		9	Live-streaming shopping on the
			marketplace makes transactions
2	System Availability	10	according to the choice of method
		10	Live-streaming shopping on
			marketplaces launched and accessed in
			many marketplace options

No	Dimensions of E-		Research attributes
110	Servqual		Research attributes
		11	Live-streaming shopping on the marketplace provides a variety of purchase services with its delivery methods as well
		12	Live-streaming shopping on the marketplace is not constrained by buffers or freezes after commenting or refreshing the live-streaming page
	ITAS	13	Admin of the host of live-streaming shopping on the marketplace provides information on the estimated time the product will be received
	ERS	14	Live-streaming shopping on the marketplace provides regular information along with couriers who can be contacted
3	Fulfillment	15	Live-streaming shopping on the marketplace quickly sends me what I've ordered
	υ ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο	16	Live-streaming shopping on the marketplace sends product that match what I ordered
	راناو	17	Stock of product as described and informed by the live host or storefront of live-streaming shopping products on the marketplace
		18	Live hosts honestly explain their offerings when live-streaming shopping on the marketplace

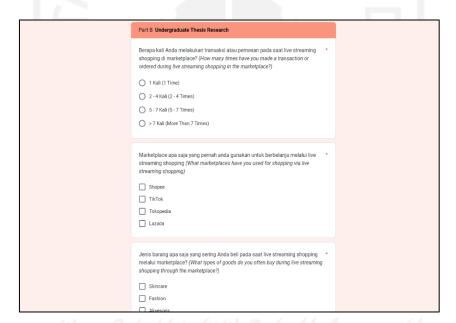
NT.	Dimensions of E-		D
No	Servqual		Research attributes
		19	Live hosts promise accurate time in product delivery at the time of live-streaming shopping in the marketplace
		20	Live-streaming shopping in the marketplace protects customer shopping behavior and customer shopping history
4	Privacy	21	Live-streaming shopping in the marketplace does not share my personal data information (address, phone number, receipt number, and others) with other sites
	HSY.	22	Live-streaming shopping in the marketplace protects information about credit cards, accounts and more
		23	Live-streaming shopping on the marketplace gives me a clear and convenient option or explanation for the procedure in returning product When shopping on live-streaming
			shopping in the marketplace can handle product returns well
5	Responsiveness	25	Live-streaming shopping in the marketplace offers a guarantee and guarantee for its products
		26	Live-streaming shopping in the marketplace helps in answering questions related to what to do if my transaction is not processed
		27	Live-streaming shopping in the marketplace addresses issues immediately

	Dimensions of E-		
No			Research attributes
	Servqual		
		28	Live-streaming shopping in the
			marketplace compensates for the
			problems caused
		29	Live-streaming shopping in the
			marketplace provides compensation if
6	Compensation		the product I ordered did not arrive on
		5	time informed
		30	When shopping on live-streaming
			shopping in the marketplace, the
			marketplace refunds the transaction fee
		J	for product that cannot be sent
		31	Live-streaming shopping in the
	IO A		marketplace provides compensation if
			the product I ordered did not arrive on
			time informed
		32	When we shopping on live-streaming
			shopping in marketplaces customer and
7	Contact		host live yang interactive deep do
			question and answers.
		33	When shopping on live-streaming
			shopping in the marketplace there is a
	"W - 3/	11	live host and customer service admin
	1 Limit		assistance that can answer existing
	1 "9 1 "		problems or obstacles immediately
1	_/ \	11 /	

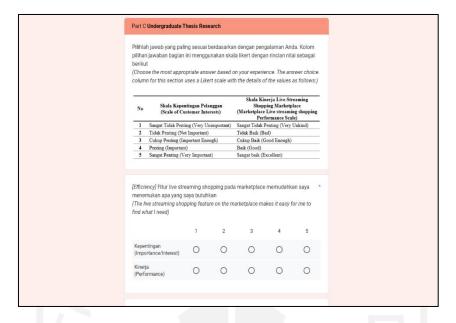
T. Electronic Service Quality Questionnaire Demographic questions



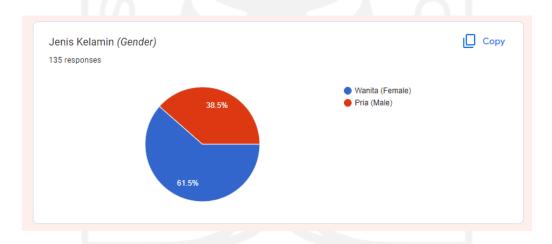
U. Electronic Service Quality Questionnaire Customer usage information questions



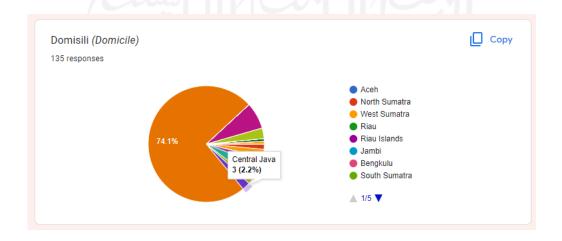
V. Electronic Service Quality Questionnaire **Dimensions** questions



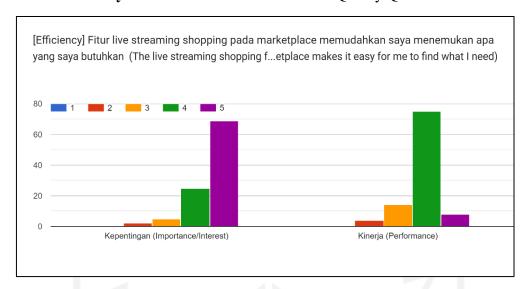
W. Result of Gender Electronic Service Quality questions



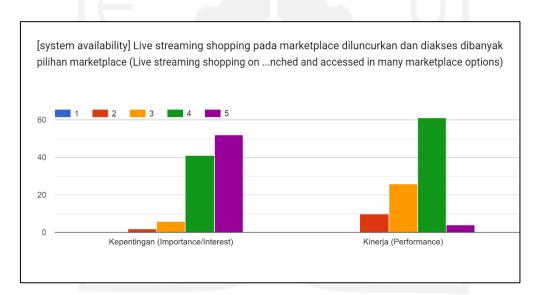
X. Result of Domicile Electronic Service Quality questions



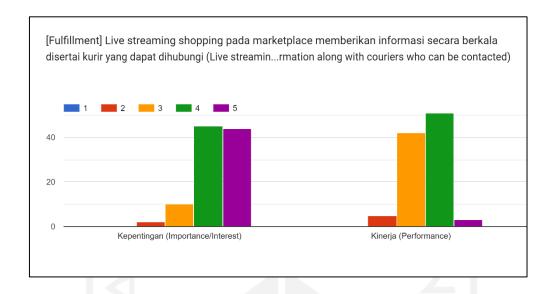
Y. Result of Efficiency Dimesion in Electronic Service Quality Questionnaire



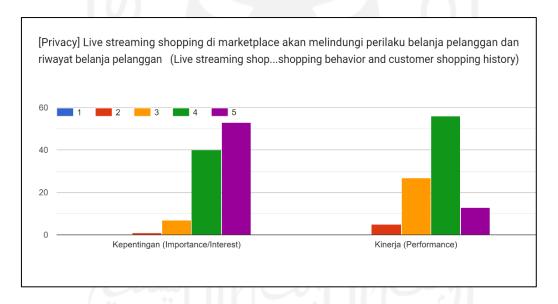
Z. Result of System Availability Dimesion in Electronic Service Quality Questionnaire



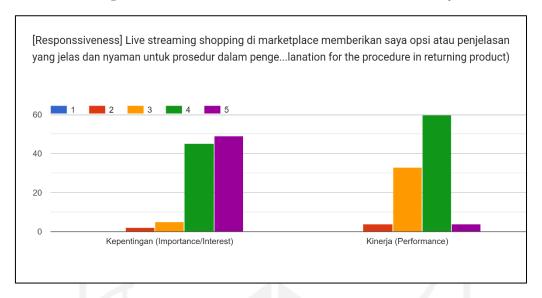
AA. Result of Fulfillment Dimesion in Electronic Service Quality Questionnaire



BB. Result of Privacy Dimesion in Electronic Service Quality Questionnaire



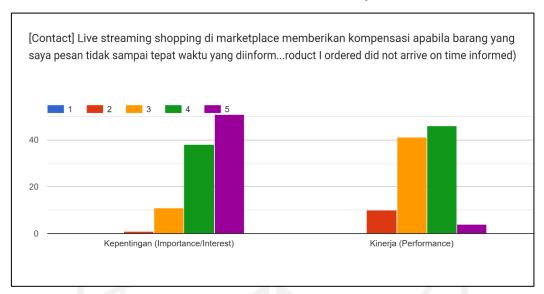
CC. Result of Responssiveness Dimesion in Electronic Service Quality Questionnaire



DD. Result of Compensation Dimesion in Electronic Service Quality Questionnaire



EE.Result of Contact Dimesion in Electronic Service Quality Questionnaire



FF. Google Form Link of Electronic Service Quality Questionnaire

Bit.ly/ServQual_LiveShopping

GG. Result of Electronic Service Quality Questionnaire

Link:

 $\underline{https://docs.google.com/spreadsheets/d/1ZWA551BGstYacmuN7fl2LghbdRDkJ8Q-Ni9iZX2x9e4/edit?resourcekey\#gid=1820394120}$

HH. Respondentsent Test Data (Valid)

Importance

																IM	PORT	ANCE															
			Effic	ciency				Sy	stem A	vailab	ility			1	Fulfilln	nent				Priv	vacy			Respo	onsive			Compe	nsation		Conta	ict	Total
I1	12	I 3	I4	15	I 6	I7	18	19	I10	I11	I12	I13	I14	I15	I16	I17	I18	I19	I20	I21	I22	I23	I24	I25	I26	I27	I28	I29	I30	I31	I32	I33	1 Otal
3	5	3	4	5	4	4	4	5	4	5	5	4	4	4	4	5	3	5	4	4	5	4	4	4	4	4	5	5	5	5	4	4	141
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5						<i>-</i>																3											
5	5	4	5	5	5	5	4	4	4	5	5	5	5	4	5	5	4	5	4	5	5	4	4	5	5	5	4	5	5	5	5	5	155
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			-		-								_											_		•							
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																IM	PORT	ANCE															
			Effic	iency				Sy	stem A	vailab	ility			1	Fulfilln	nent				Priv	vacy			Respo	onsive			Compe	nsation		Conta	act	Total
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																IM	PORT	ANCE															
			Effic	iency				Sys	stem A	vailab	ility			1	Fulfilln	nent				Priv	acy			Respo	onsive			Compe	nsation		Conta	ict	Total
I1	I2	I 3	I4	15	16	I7	18	19	I10	I11	I12	I13	I14	I15	I16	I17	I18	I19	I20	I21	I22	I23	I24	I25	I26	I27	128	129	I30	I31	I32	I33	Total
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																IM	PORT	ANCE															
			Effic	eiency				Sy	stem A	vailab	ility			1	Fulfillr	nent				Priv	vacy			Respo	onsive			Compe	ensation		Conta	ict	Total
11	12	13	I4	I 5	16	17	18	19	I10	I11	I12	I13	I14	I15	I16	I17	I18	I19	I20	I21	I22	I23	I24	125	I26	I27	128	129	I30	I31	I32	I33	1 Otal
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Performance

																Perfe	rman	ce															
			Effic	iency				Sy	stem A	Availab	oility			Fι	lfillm	ent				Privac	y		R	espons	ive		Con	npensa	tion		Contac	t	Tot
P 1	P 2	P 3	P 4	P 5	P 6	P 7	P 8	P 9	P1 0	P1 1	P1 2	P1 3	P1 4	P1 5	P1 6	P1 7	P1 8	P1 9	P2 0	P2 1	P2 2	P2 3	P2 4	P2 5	P2 6	P2 7	P2 8	P2 9	P3 0	P3 1	P3 2	P3 3	al
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4	2	4	2	3	4	4	2	2	3	2	2	4	3	2	4	4	4	4	2	3	3	4	3	3	3	5	4	3	4	4	5	3	109
4	3	3	3	3	3	4	4	2	4	3	3	4	4	1	4	4	4	2	5	2	2	4	3	4	2	5	4	2	3	3	4	4	123
4	4	4	4	4	4	3	4	4	3	4	5	4	4	4	5	4	4	4	3	2	4	4	4	3	3	3	4	3	3	3	4	4	113
3	3	4	4	2	4	4	3	3	4	3	3	4	4	4	3	4	3	4	3	2	4	4	4	2	4	3	4	4	4	3	2	4	124
4	4	4	4	3	4	3	4	4	4	4	4	5	4	4	3	5	3	4	5	3	3	4	2	4	4	4	2	4	4	4	2	5	127
4	4	4	5	5	4	5	2	2	3	4	4	4	4	4	4	4	4	4	4	4	3	4	5	5	3	5	2	3	3	4	4	4	116
4	4	4	3	2	4	4	3	4	3	4	4	3	2	4	4	4	5	4	4	4	3	3	4	3	3	4	2	3	4	2	4	4	117

Performance																Perf	ormano	e															
		Effic	eiency		System Availability Fulfillment										Privacy					Responsive				Compensation			Contact			Tot			
P 1	P 2	P 3	P 4	P 5	P 6	P 7	P 8	P 9	P1 0	P1 1	P1 2	P1 3	P1 4	P1 5	P1 6	P1 7	P1 8	P1 9	P2 0	P2 1	P2 2	P2 3	P2 4	P2 5	P2 6	P2 7	P2 8	P2 9	P3 0	P3 1	P3 2	P3 3	al
3	3	4	4	4	4	3	4	4	3	3	4	3	4	3	4	3	4	4	3	4	3	3	3	4	4	4	3	4	4	3	3	4	124
4	4	4	3	4	3	2	4	5	4	4	4	2	4	4	4	4	3	4	4	3	4	4	5	4	4	5	2	4	4	3	4	4	124
4	4	4	2	4	4	2	3	4	4	4	3	4	4	4	3	4	4	5	4	4	3	4	3	3	4	3	5	4	4	4	5	4	99
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	125
4	3	4	4	3	4	4	4	4	3	3	4	4	5	4	4	3	4	3	4	4	5	5	4	4	3	5	4	3	4	3	4	2	122
4	4	3	4	4	4	4	4	4	4	4	3	4	4	4	4	4	2	4	4	4	3	4	4	4	2	4	4	2	4	4	3	4	118
2	3	3	3	2	5	2	2	4	4	3	4	4	4	4	4	3	4	4	3	3	4	4	4	4	4	4	4	4	3	5	4	4	115
4	4	4	4	3	2	4	3	4	4	4	3	4	4	3	3	4	4	3	3	3	3	4	4	3	4	2	4	4	3	4	4	2	120
3	3	4	4	4	2	3	4	3	4	3	4	4	4	4	4	4	4	3	4	4	5	4	4	3	4	2	3	4	4	3	4	4	137
5	4	3	4	5	4	4	5	4	4	4	5	4	4	4	4	4	4	3	4	5	4	5	4	4	4	4	5	4	4	4	4	4	125
4	4	3	4	4	3	3	2	4	4	4	4	4	2	4	5	4	4	3	4	4	4	5	4	4	4	3	4	4	4	4	4	4	119
4	3	5	3	2	4	4	4	4	4	3	4	4	3	3	4	3	4	4	3	3	4	4	4	3	3	3	4	3	4	4	4	4	123
4	4	4	3	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	3	3	4	4	5	4	2	4	4	2	3	3	4	4	129
4	4	4	4	4	4	4	4	4	3	4	5	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	4	3	3	4	127
4	4	4	4	4	4	4	4	3	3	4	3	3	4	4	4	4	4	4	5	3	4	5	4	2	4	4	4	4	4	4	4	4	122
4	3	4	4	5	4	3	4	4	4	3	4	4	4	4	4	4	3	4	4	3	3	4	4	4	4	4	2	4	3	5	2	3	121
4	3	4	4	5	4	3	2	2	5	3	3	4	4	4	4	4	3	4	4	4	3	4	4	4	4	3	2	4	5	4	3	4	118
4	4	4	4	3	4	4	3	3	4	4	3	4	3	4	4	4	4	5	4	4	3	4	3	4	2	5	3	2	3	3	2	4	115
4	3	4	4	3	2	4	4	3	4	3	4	3	3	3	4	3	2	3	5	3	3	5	3	4	3	4	4	3	4	3	4	4	130
4	5	3	5	3	3	3	4	4	3	5	4	5	3	4	4	4	3	4	5	5	4	3	4	5	4	4	4	4	4	4	3	4	123
3	3	4	4	4	4	4	4	5	4	3	4	4	3	5	4	4	3	4	4	4	3	3	3	4	4	2	5	4	4	2	4	4	121
3	5	4	3	4	2	4	3	4	4	5	4	4	4	4	2	3	4	4	4	3	4	3	4	4	3	4	5	3	3	4	4	3	119
3	3	4	4	4	4	4	4	4	4	3	2	3	4	3	4	3	4	4	4	4	4	3	4	4	3	4	3	3	4	3	4	4	118
4	4	3	4	3	3	3	3	4	4	4	4	3	3	4	3	4	4	4	4	3	4	4	4	3	4	3	4	4	4	3	3	3	120
4	4	4	3	3	4	4	4	4	3	4	3	4	4	3	4	3	3	4	3	3	4	4	4	4	3	4	4	3	4	3	4	4	124

																Perfo	rmanc	e															
			Effic	iency				Sys	stem A	vailab	ility			Fu	llfillm	ent			1	Privac	y		Re	spons	ive		Con	npensa	tion		Contac	t	Tot
P	P	P	P	P	P	P	P	P	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P2	P2	P2	P2	P2	P2	P2	P2	P2	P2	P3	Р3	Р3		al
4	4	4	4	3	4	7 4	4	4	4	4	4	3	4	5 4	3	7	4	9	4	4	3	3	4	3	4	7 4	3	9 4	4	3	4	<u>3</u> 4	122
4	4	3	4	4	4	3	3	4	4	4	4	3	3	4	4	4	4	3	3	4	4	4	4	3	4	4	3	4	4	4	4	3	121
4	5	4	3	4	3	4	4	4	4	5	4	3	4	3	4	4	3	3	4	3	4	3	4	4	3	4	4	3	3	4	3	3	122
4	4	3	4	4	4	3	3	4	4	4	4	3	3	4	3	3	4	3	4	4	4	4	4	4	4	4	3	4	4	3	4	4	122
4	4	3	3	2	5	4	4	4	3	4	4	4	4	3	4	4	3	4	2	4	4	4	4	4	4	4	4	4	3	3	3	5	126
5	4	3	4	4	4	4	4	3	3	4	2	4	4	4	4	3	4	4	4	4	4	3	4	5	4	4	3	4	4	4	4	4	117
3	4	4	3	2	4	3	4	3	4	4	4	4	4	3	2	3	4	4	4	3	4	3	4	4	4	4	3	4	3	4	3	4	121
5	4	4	4	3	5	4	4	4	4	4	3	4	4	4	2	4	3	4	4	3	4	4	3	5	2	3	3	2	4	4	3	4	111
4	4	3	3	3	4	4	3	3	3	4	3	4	3	4	2	4	3	3	3	3	3	4	4	3	2	5	3	2	4	3	4	4	123
5	3	4	4	4	4	4	4	3	4	3	3	4	4	4		3	4	4	4	4	4	4	3	4	3	4	3	3	3	4	4	4	118
3	3	4	4	4	4	3	4	2	4	3	4	4	4	4	4	4	4	4	3	3	4	4	4	3	3	4	3	3	4	3	4	3	108
				4															4										4				
3	3	2	3	•	3	4	3	2	4	3	3	2	4	3	4	3	3	4		3	4	4	3	3	3	3	3	3	•	3	5	3	113
4	3	3	3	3	4	4	4	3	3	3	3	4	3	4	4	3	4	2	2	1	4	4	2	4	4	4	4	4	4	4	4	4	104
4	2	3	3	3	4	3	4	4	4	2	3	3	3	2	2	2	4	4	3	4	4	2	4	4	4	2	2	4	3	3	3	3	113
3	3	4	3	4	3	4	4	4	4	3	4	3	3	3	4	3	4	4	3	4	4	4	3	4	2	3	4	2	3	4	3	3	112
2	4	4	3	3	3	3	4	4	2	4	4	3	3	4	5	3	3	4	3	3	3	3	3	3	3	4	4	3	3	4	4	4	113
3	4	4	3	2	4	2	4	3	4	4	3	3	4	4	3	4	4	3	3	2	4	4	2	4	4	3	3	4	4	3	4	4	117
5	3	4	4	4	3	4	4	4	3	3	4	4	4	4	3	3	2	4	3	4	4	3	3	3	3	4	3	3	3	4	4	4	117
3	3	3	4	3	4	3	3	4	4	3	4	4	2	3	4	4	3	3	4	4	4	2	4	3	3	5	4	3	5	4	3	5	110
4	3	2	4	3	4	3	3	3	4	3	3	3	3	4	4	3	4	4	3	4	4	4	4	3	3	3	3	3	3	4	3	2	115
4	4	3	4	3	4	3	3	4	4	4	3	3	3	4	3	4	3	3	3	4	3	4	4	4	4	3	4	4	3	2	4	3	113
4	3	4	3	3	4	4	4	3	4	3	4	4	4	2	3	4	3	3	4	4	4	4	3	3	3	3	3	3	3	3	3	4	104
2	4	3	4	4	2	2	5	3	3	4	4	4	3	3	3	3	4	4	3	2	3	4	3	3	3	2	2	3	3	3	3	3	120
5	3	4	3	4	4	4	4	4	4	3	2	4	4	4	4	3	3	3	4	3	4	3	3	4	3	3	4	3	4	5	4	4	112
3	4	3	3	4	4	4	3	2	4	4	3	4	3	3	3	4	4	4	4	3	3	4	4	4	2	4	2	2	3	3	4	4	102

																Perfo	rman	ce															
			Effic	ciency				Sy	stem A	vailab	ility			Fu	ılfillm	ent			1	Privac	y		Re	esponsi	ive		Con	npensa	tion		Contac	t	Tot
P	P	P	P	P	P	P	P	P	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P2	P2	P2	P2	P2	P2	P2	P2	P2	P2	P3	P3	P3	P3	al
3	3	3	3	5 4	2	3	3	2	4	3	4	4	4	3	3	3	2	9 4	3	2	3	2	3	3	3	7 4	3	3	2	3	4	3 4	113
4	4	4	4	3	3	4	3	3	3	4	4	4	3	4	4	2	4	3	4	4	4	3	3	4	2	3	3	2	4	4	3	3	120
3	3	3	3	4	3	4	4	4	4	3	3	4	4	4	4	3	4	4	4	4	3	4	4	3	4	3	4	4	3	4	4	4	115
3	3	4	4	4	4	3	4	3	4	3	4	3	4	4	4	4	4	3	3	4	3	3	4	4	4	3	2	4	3	3	3	3	126
4	4	4	4	4	3	4	4	4	4	4	4	4	4	4	4	3	4	4	3	4	4	3	5	3	3	4	4	3	4	4	4	4	122
4	3	4	3	4	3	4	4	4	3	3	3	3	3	4	4	3	4	4	3	4	4	3	5	4	4	4	5	4	4	4	4	3	117
3	3	4	4	3	4	5	4	4	4	3	4	3	4	2	4	3	3	4	4	4	3	4	3	3	3	3	4	3	3	4	4	4	117
4	2	4	4	3	2	4	5	3	4	2	2	3	4	3	4	4	4	4	4	3	4	4	4	4	4	5	3	4	4	4	3	2	118
3	3	4	3	4	3	4	3	4	3	3	4	4	4	4	4	3	3	4	4	3	4	4	4	4	4	4	3	3	3	3	4	4	122
4	4	3	3	5	4	4	4	4	4	4	4	3	3	2	4	3	4	4	4	4	3	4	4	3	3	4	3	3	4	4	4	5	114
4	4	3	4	3	2	4	4	3	3	4	3	4	4	4	4	4	4	4	4	4	3	3	3	3	2	3	4	2	4	3	3	4	116
4	4	3	4	4	4	3	4	3	4	4	3	3	3	4	4	3	4	4	5	4	3	2	4	3	3	3	4	3	3	4	4	2	123
3	4	4	4	3	4	5	4	4	4	4	4	3	4	2	4	3	4	4	4	3	4	4	4	3	4	4	4	4	3	3	4	4	122
4	4	3	4	3	3	3	4	4	4	4	5	4	3	3	4	3	4	5	4	4	3	4	4	4	3	4	3	3	4	3	4	4	118
4	4	4	4	4	2	3	4	3	4	4	3	3	3	3	4	4	3	4	4	4	3	4	4	4	3	3	4	3	4	4	4	3	111
4	5	4	3	3	4	4	4	4	3	5	4	3	2	3	3	4	3	3	4	4	3	2	3	4	3	3	3	3	3	2	3	3	120
4	3	3	4	3	4	4	4	4	4	3	3	3	4	3	3	4	4	4	4	3	4	4	4	4	4	4	3	4	4	3	4	3	116
4	4	2	3	4	3	4	3	4	3	4	4	4	2	3	3	4	3	4	4	3	4	3	4	4	4	3	4	4	3	4	4	3	117
4	4	3	3	3	3	3	4	4	3	4	4	4	3	3	3	4	4	3	4	4	4	4	4	4	3	3	4	3	3	4	4	3	110
3	4	3	4	4	3	4	4	3	3	4	3	3	5	2	4	3	4	4	4	4	3	4	3	2	2	5	2	2	3	3	3	3	110
4	3	4	3	3	3	3	3	4	4	3	4	4	3	3	3	3	3	3	4	3	3	2	4	3	3	3	4	3	3	4	4	4	127
4	4	3	4	3	4	5	4	4	3	4	4	4	4	5	2	4	4	3	4	4	4	5	4	4	5	4	4	3	4	4	4	2	118
5	2	3	4	4	4	4	4	3	4	2	4	4	4	2	3	3	4	3	4	4	3	4	3	4	4	4	4	4	4	4	4	2	123
5	3	4	2	4	2	3	4	4	5	3	5	4	5	3	4	3	3	5	5	4	3	4	3	4	4	3	4	4	4	4	3	3	109
3	4	3	3	3	3	4	3	4	4	4	4	3	3	4	3	3	3	4	4	3	4	2	4	3	3	3	3	3	3	3	3	3	119

																Perfo	rman	ce															
		Ι	Effici	iency				Sy	stem A	vailab	ility			Fu	llfillm	ent				Privac	y		Re	espons	ive		Cor	npensa	ation		Contac	t	Tot
																					P2												al
]	. 2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	
3	3	 4	4	4	3	4	4	4	3	3	4	4	4	3	4	4	3	4	4	4	4	3	4	4	3	4	5	3	2	4	3	3	118

II. Validity and reability Tests

Importance Validity Test

		I1	I2	I3	I4	I5	I6	I7	I8	I9	I1 0	I1	I1 2	I1 3	I1 4	I1 5	I1 6	I1 7	I1 8	I1 9	I2 0	I2 1	I2 2	I2 3	I2 4	I2 5	I2 6	I2 7	I2 8	I2 9	I3 0	I3	I3 2	I3 3	Impor
	Pearso n Correl	1	.23	.03	.24	.00	.44 2*	.50 7**	.23	.03	Ü	.14		- 13			.53	-	.31				.31	.36	.26			.1 27	.21	.47 5**	.03	.23		.50 7**	
I1	Sig. (2-tailed)	30	.21 0	.85	.18 6	1.0 00 30	4	.00 4	.21 0	3	.35 0 30	.43 5 30	.01 0	1	.00 6	.15 4	.00 2 30	.87 6	.09 5	.00 3	6	4	.09 4 30	.04 6	.15 4 30	.72 4 30	.25	.5 05	.26 4 30	.00 8	.86	4	3	.00 4	.007
	Pearso n Correl	.23	1	.24	.25	.06			.18		.09		.33	_	.21		.43 7*	.12	.04	.64 1**					.48 7**	.05			.26	.47 1**	.00			.40 5*	.524**
I2	Sig. (2-tailed)	.21		.18 9	.18	.72 4	.00	.38 5	.32	.62 0	.61 7	.75 4	.07 1	.96 2	.24 9	.18 7	.01 6	.50	.82 7	.00	.86 4	.44 2	.00	.03	.00 6	.79 4	.00	.1 96	.15	.00	.96 2	.01 6	.24 9	.02	.003
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

	Pearso																																		
	n	.03	.24		.46	.48	.05	.34	.38	.62	.24	.43	.34	.29	.24	.10	.15	.23	.42	.00	.43	.20	.29	.15	-	.38	.25	.2	.45	.14	.39	.40	.50	.09	
	Correl	5	7	1	4**	4**	6	2	6*	8**	5	0*	3	6	9	7	3	0	9*	8	5*	0	2	7	.01	6*	1	24	0*	0	7*	0*	2**	5	.566**
12	ation																								6										
I3	Sig.	.85	.18		.01	.00	76	06	03	00	10	01	06	11	.18	57	42	22	01	06	01	20	.11	40	03	03	10	2	01	.46	03	02	.00	.61	
	(2-	.63	9		.01	7	7	.00	.03	.00	3	.01	3	3	.16	.57	1	2	.01	6	.01	0	8	7	.)3	5	.10	35	.01	2	0	.02	.00	.01	.001
	tailed)																																		
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso	2.4	2.5	4.5		4.4	40	40	4.5	50	40	22	25	10	40	50	21	1.7	27	1.7	2.5	1.7	2.5	20	2.5	2.5	20	2	50		10	40	40	22	
	n Correl	.24	.25	.46 4**	1	.44 7*	.40 6*	.48 9**		.50 0**	.42 2*	.22	.37	.19	.40 9*	.53	.31	.17	.27	.17	.36	.17	.36	.39 8*	.26	.25	.20	.2	.53	.44	.19 9	.48 9**	.40 9*	.22	.680**
	ation	0	1	4		,	U	9	1	U	2	1	U	9	9	1	1	,	,	3	1	9	1	0	3	1	2	30	0	2	9	9	9	2	
I4	Sig.																																		
	(2-		.18					.00		.00		.24		.29	.02								.05							.01			.02		.000
	tailed)	6	1	0		3	6	6	2	5	0	1	4	1	5	3	4	0	8	0	0	3	0	9	6	1	5	09	2	4	1	6	5	8	
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso																																		
	n	.00	.06	.48	.44	1	.13			.42	.42	.53	.24	.66	.30	.23	.29	.47	.24	.11	.34	.24	.20	.26	.23	.47	.16	.1	.36		.53	.29	.67	.06	.644**
	Correl	0	7	4**	7*	•	6	8	1**	7*	4*	3**	8	8**	5	7	8	5**	8	6	6	1	8	7	7	1**	2	90	1*	5**	5**	8	1**	0	.011
I5	ation																																		
	Sig.	1.0	.72	.00	.01		.47	.10	.00	.01	.01	.00	.18	.00	.10	.20	.10	.00	.18	.54	.06	.20	.27	.15	.20	.00	.39	.3	.05	.00	.00	.10	.00	.75	000
	(2-tailed)	00	4	7	3		3	9	9	9	9	2	6	0	1	7	9	8	6	1	1	0	1	3	7	9	1	14	0	8	2	9	0	4	.000
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

	Pearso																																		
	n	.44	.52	.05	.40	.13	1	.21	.11	.05	.00	.12	.38	.05	.42	.55	.39	.07	.12	.61	.22	.34	.50	.73	.43	.11	.24	.3	.09	.41	.08	.63	.29	.46	.601**
	Correl	2*	2**	6	6*	6	1	9	0	0	0	1	0^*	5	3*	7**	0^*	3	7	7**	6	4	8**	6**	6*	0	3	36	8	2*	2	3**	9	3*	.001
I6	ation																																		
	Sig.	.01	.00	.76	.02	.47		.24	.56	.79	1.0	.52	.03	.77	.02	.00	.03	.70	.50	.00	.23	.06	.00	.00	.01	.56	.19	.0	.60	.02	.66	.00	.10	.01	000
	(2-tailed)	4	3	7	6	3		5	3	4	00	4	8	5	0	1	3	3	5	0	0	3	4	0	6	3	5	69	5	4	7	0	9	0	.000
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso																																		
	n	.50	.16	.34	.48	.29	.21	1	.16	.19	.08	.15	.29	.11	.41	.00	.28	.32	.37	.25	.02	.12	.15	.23	.11	-	.06	.1	.34	.41	.00	.06	.08	.14	40.1*
	Correl	7**	5	2	9**	8	9	1	5	3	4	9	6	2	1*	7	1	6	0*	7	9	9	3	1	3	.19	1	02	5	8*	8	8	4	6	.421*
I7	ation																									,									
17	Sig.	.00	.38	.06	.00	.10	.24		.38	.30	.65	.40	.11	.55	.02	.97	.13	.07	.04	.17	.88	.49	.42	.21	.55	.29	.74	.5	.06	.02	.96	.72	.66	.44	
	(2-	4	5	4	6	9	5		5	7	8	1	2	7	4	0	2	9	4	1	0	6	1	9	1	8	7	91	2	2	7	3	0	2	.021
	tailed)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	20	30	20	30	20	30	20	30	30	30	30	30	30	30
	N Pearso	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	n	.23	.18	.38	.45	.47	.11	.16		.34	.38	.29	.33	.53	.21	.36	.31	.12	.41	.17	.31	-	.31	.26	.36	.45	.39	.2	.63	.23	.41	.07	.21	.16	
	Correl	5	6	6*	1*	1**	0	5	1	0	1*	9	4	0**	7	7*	7	8	7*	2	2	.09	2	1	7*	7*	7*		2**	2	3*	6	7	5	.588**
10	ation																					7													
I8	Sig.	.21	.32	.03	.01	.00	.56	.38		.06	03	10	07	00	.24	04	08	.50	02	.36	.09	60	.09	16	04	.01	03	1	.00	21	.02	.68	.24	.38	
	(2-	0	6	.03	2	9	3	.56		.00	.03	9	.07	3	9	6	.00	.50	.02	3	4	9	4	4	.04	.01	.03	96	0	.21	.02	9	.24	.56	.001
	tailed)	2.5	2.0			2.0			2.5						2.0								2.2	2.2				2.5	2.2	2.2		2.0	2.2		2.2
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

	Pearso																																		
	n	.03	.09	.62	.50	.42	.05	.19	.34	1	.34	.27	.41	.38	.21	.20	.13	.20	.26	.09	.51	.06	.13	.01	.01	.34	.12			.12		.35	.44	.08	.511**
	Correl	0	4	8**	0**	7*	0	3	0	•	5	1	6*	3*	9	3	5	3	5	9	0**	6	1	6	4	0	2	97	7**	3	3**	3	2*	4	.011
I9	ation																																		
	Sig.	.87	.62	.00	.00	.01	.79	.30	.06		.06	.14	.02	.03	.24	.28	.47	.28	.15	.60	.00	.72	.49	.93	.93	.06	.52	.2	.00	.51	.00	.05	.01	.66	004
	(2-tailed)	3	0	0	5	9	4	7	6		2	8	2	7	4	3	8	3	8	2	4	9	1	2	9	6	0	97	0	7	8	6	4	0	.004
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso	20		20				20	20				20	20				20	20						20			20			20	20			
	n	.17	.09	.24	.42	.42	.00	.08	.38	.34		.37	.08	.18	.21	.33	.29	.21	.30	.20	.19	.25	.19	.04	.46	.38	.15	.4	.38	.29	.23	.16	.47	.21	*
	Correl	7	5	5	2*	4*	0	4	1*	5	1	7*	8	9	6	6	5	0	7	5	6	5	6	7	2*	1*	3	03	3*	4	6	9	4**	1	.523**
I10	ation																																		
110	Sig.	.35	.61	.19	.02	01	1.0	.65	.03	06		.04	.64	31	.25	07	11	.26	.09	.27	.30	17	.30	.80	01	.03	41	.0	03	.11	.20	37	.00	.26	
	(2-	0	7	3	0	9	00	8	8	2		0	5	7	3	0	3	6	9	6	0	3	0	4	0	8	9	27	7	5	9	3	8	3	.003
	tailed)																																		
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso	1.4	06	.43	22	52	12	15	20	.27	27		22	11	.05	00	05	21	22	.10	10	21	10	22	10	.53	04	0	10	10	11	05	.37	.37	
	Correl		.00	.43	.22	3**	.12	.13	.29	.27	.37 7*	1	.22	.11	.03	.00	.03	.51	.22	.10	.10	4	4	.23	.10	.33	.04	56		.10	.11	.03	.37 9*	.37	.415*
	ation	O	Ü	O	1	3	1			1	,		O		7	Ü	3	O	O	3	7	•	-	,	3	O	O	30	,			3		1	
I11	Sig.																																		
	(2-	.43	.75	.01	.24		.52			.14			.24		.77					.58	.32											.78	.03	.04	.023
	tailed)	5	4	8	1	2	4	1	9	8	0		2	2	6	00	1	9	2	7	9	6	9	6	9	2	1	68	4	9	2	1	9	4	
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

	Pearso																																		
	n	.46	.33	.34	.37	.24	.38	.29	.33	.41	.08	.22	1	.16	.30	.40	.48	.18	.03	.18	.42	.22	.42	.29	.18	.08	.23	.2	.44	.36	.33	.37	.30	.40	.570**
	Correl	5**	4	3	0^*	8	0^*	6	4	6*	8	0	1	6	3	5*	1**	4	8	0	9*	.22	9*	0	4	3	5	36	8*	8*	1	0*	3	7*	.570
I12	ation																																		
	Sig.	.01	.07	.06	.04	.18	.03	.11	.07	.02	.64	.24		.38	.10	.02	.00	.33	.84	.34	.01	.23	.01	.12	.33	.66	.21	.2	.01	.04	.07	.04	.10	.02	001
	(2-tailed)	0	1	3	4	6	8	2	1	2	5	2		1	4	6	7	0	0	1	8	4	8	0	0	1	1	10	3	5	4	4	4	6	.001
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso																																		
	n	.13	-	.29	.19	.66	.05	.11	.53	.38	.18	.11	.16	1	.01	.18	.36	.30	.20	.08	.12	.16	.25	.06	.06	.26	.11	.2	.31	.29	.60	.00	.38	.00	.409*
	Correl	.13	9	6	9	8**	5	2	0**	3*	9	9	6	1	6	2	7*	1	7	5	0	9	9	2	3	1	6	79	4	3	7**	8	3*	.00	.409
I13	ation																																	_	
	Sig.	.48	.96	.11	.29	.00	.77	.55	.00	.03	.31	.53	.38		.93	.33	.04	.10	.27	.65	.52	.37	.16	.74	.73	.16	.54	.1	.09	.11	.00	.96	.03	.96	025
	(2-tailed)	1	2	3	1	0	5	7	3	7	7	2	1		2	5	6	6	2	4	7	2	7	3	9	4	2	35	1	6	0	7	7	7	.025
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso																																		
	n	.48	.21	.24	.40	.30	.42	.41	.21	.21	.21	.05	.30	.01	1	.42	.35	.31	.49	.32	.51	.50	.25	.38	.42	.21	.41	.1	.28	.55	.35	.46	.44	.19	.660**
	Correl	8**	7	9	9*	5	3*	1*	7	9	6	4	3	6	1	0^*	3	1	2**	6	0**	6**	7	3*	0*	7	9*	97	6	7**	0	2*	2*	3	.000
I14	ation																																		
	Sig.	.00	.24	.18	.02	.10	.02	.02	.24	.24	.25	.77	.10	.93		.02	.05	.09	.00	.07	.00	.00	.17	.03	.02	.24	.02	.2	.12	.00	.05	.01	.01	.30	000
	(2-tailed)	6	9	5	5	1	0	4	9	4	3	6	4	2		1	6	4	6	9	4	4	0	7	1	9	1	97	5	1	8	0	4	7	.000
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
										77	9	('	ij	J	IJ		* *			Л	t	5		Z											

	Pearso																																		
	n	.26	.24	.10	.53	.23	.55	.00	.36	.20	.33	.00	.40	.18	.42		.52	.04	.25	.44	.38	.15	.38	.53	.47	.12	.37	.2	.36	.37	.29	.52	.42	.21	
	Correl	7	7	7	1**	7	7**	7	7*	3	6	0	5*	2	0*	1	4**	9	8	1*	6*	0	6*	9**	2**	8	9*	03		3*		4**	0*	9	.625**
I15	ation																																		
113	Sig.	15	.18	.57	.00	20	.00	97	04	.28	.07	1.0	.02	33	.02		00	.79	16	01	.03	42	03	.00	00	.50	03	2	.04	.04	11	.00	.02	.24	
	(2-	4	7	5	3	7	1	0	6	3	0	00	6	5	1		3	6	9	5	5	9	5	2	8	1	9	82	8	2	6	3	1	4	.000
	tailed)	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	N Pearso	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
		.53	.43	.15	.31	.29	.39	.28	.31	.13	.29	.05	.48	.36	.35	.52		.20	.18	.68	.21	-	.59	.36	.31	-	.42	.2	.19	.75	.11	.25	.35	.49	
	Correl		7*	3	1	8	0*	1	7	5	5	3	1**	7*	3	4**	1	5	5	0**	9	.02	0**		2	.04	3*	38	4	0**	2	3	3	5**	.636**
TIC	ation																					2				4									
I16	Sig.	.00	.01	.42	.09	10	.03	13	08	.47	11	78	.00	04	.05	00		.27	.32	.00	.24	.91	.00	.04	.09	.81	.02	.2	.30	.00	.55	17	.05	.00	
	(2-	2	6	1	4	9	3	2	.00	.47	3	1	7	.04	6	3		6	.52	0	6	0	.00	6	4	7	0	05	.50	0	.55	8	6	.00	.000
	tailed)			•										•																					
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso	-	.12	.23	17	.47	07	32	12	20	21	31	18	30	31	04	.20		03	.13	26	15	01	.18	15	00	-	2	04	.37	17	09	.20	11	
	Correl	.03	8	0	7	5**	3	6	8	3	0	6	4	1	1	9	5	1	7	1	3	0	6	2	5	8	.00	03	3	3*	4	9	3	3	.367*
115	ation	0																									6								
I17	Sig.	.87	50	.22	35	.00	70	07	50	28	26	08	33	10	00	.79	.27		.84	.49	.16	12	03	.33	41	96	07	.2	.82	.04	.35	.60	.28	.55	
	(2-	.6	.30	.22	.55	.00	.70	.07	.30	.20	.20	.08	.33	.10	.09	.19	6		.04 7	.49	.10	.42	.93	.55	.41	.90	.97	.2 82	.02	.04	.33	.00	.20	.55	.046
-	tailed)											-																						•	
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

	Pearso																																		
	n	.31	.04	.42	.27	.24	.12	.37	.41	.26	.30	.22	.03	.20	.49	.25	.18	.03	1	.25	.08	.22	.08	.33	.36	.16	.26	.1	.33	.07	.16	.07	.37	.03	462*
	Correl	0	2	9*	7	8	7	0*	7*	5	7	0	8	7	2**	8	5	7	1	2	6	4	6	1	8*	7	9	18	6	4	6	4	8*	7	.463*
I18	ation																																		
	Sig.	.09	.82	.01	.13	.18	.50	.04	.02	.15	.09	.24	.84	.27	.00	.16	.32	.84		.17	.65	.23	.65	.07	.04	.37	.15	.5	.06	.69	.38	.69	.03	.84	
	(2-	5	7	8	8	6	5	4	2	8	9	2	0	2	6	9	8	7		9	2	4	2	4	5	8	1	35	9	9	1	8	9	6	.010
	tailed)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	n		.64	.00	.17	.11	.61	.25	.17	-	.20	.10	.18	.08	.32	.44	.68	.13	.25		-	.39	.47	.66	.44	-	.52	.1	.08	.59	-	.26	.22	.46	
	Correl	3**	1**	8	3	6	7**	7	2	.09	5	3	0	5	6	1*	0**	1	2	1	.00	9*	4**	8**	1*	.06	2**	77	4	3**	.08	4	0	5**	.566**
T10	ation									9											8					3					5				
I19	Sig.	.00	00	.96	36	.54	00	.17	36	.60	.27	.58	.34	.65	.07	.01	.00	.49	17		.96	.02	.00	.00	01	.74	00	3	.65	.00	65	.15	.24	.01	
	(2-	3	0	6	0	1	0	1	3	2	6	7	1	4	9	.01	0	0	9		6	9	8	0	.01	3	3	50	9	1	.03	9	3	0	.001
	tailed)																																		
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso	13	03	.43	36	.34	.22	02	.31	51	10	1 Q	42	12	51	38	21	.26	.08	-		.30	-	.25	01	21	08	1	12	.35	13	.46	.38	.02	
	Correl		.03	. 4 3	.30	6	.22	.02	2	0**	.19	.16	9*	0	0**	.58	.21	3	.08	.00	1	0	.00	9	.01	2	.00	71	.42	3	.43	6**	.38	.02	.506**
	ation	Ü	Ü		•	Ü	Ü			Ü	Ü				Ü					8			5		Ü	_	Ü	, 1			•	Ü			
I20	Sig.	16	0.6	0.1	0.5	0.5	22	0.0	00	00	20	22	0.1	50	00	0.0	2.4	1.0		0.6		16	0.0	1.0	0.2	00			0.1	0.5	0.1	00	0.2	0.0	
	(2-	.46		.01	.05				.09			.32	.01		.00	.03				.96		.10		.16					.01			.00	.03	.88	.004
	tailed)	O	4	6	0	1	0	0	4	4	0	9	8	7	4	3	6	1	2	6		8	0	/	1	4	1	66	9	6	6	9	6	U	
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

	Pearso	21	1.4	20	17	24	24	10	_	06	25	21	-	-	50	1.5	-	1.5	22	20	20		05	42	1.5	26	27		02	27	0.4	40	20	02	
	n Correl		.14 6	.20	.17 9	.24	.34	.12	.09	.06 6	.25	.21	.22	.16	.50	.15	.02	.15	.22	.39 9*	.30	1	.05	.43	.13	.26 7	.27	.0	.02	.27	.04	.40 9*	.28	.02	.369*
I21	ation								7				4	9			2																		
121	Sig.	.26	.44	.29	.34	.20	.06	.49	.60	.72	.17	.25	.23	.37	.00	.42	.91	.42	.23	.02	.10		.79	.01	.42	.15	.14	.8	.90	.13	.80	.02	.12	.91	
	(2-tailed)	4	2	0	3	0	3	6	9	9	3	6	4	2	4	9	0	9	4	9	8		3	6	9	3	3	10		6	0	5	5	0	.045
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso																																		
	n			.29	.36	.20		.15	.31	.13	.19	.18		.25	.25			.01	.08		.00	.05	1	.25		.17				.35	.15		.25	.64	.601**
	Correl	1	1**	2	1	8	8**	3	2	1	6	4	9*	9	7	6*	0**	6	6	4**	5	0		9	6*	2	8**	02	0	3	7	2	7	8**	
I22	ation Sig.																																		
	(2-	.09	.00	.11						.49	.30	.32			.17	.03			.65 2	.00	.98	.79		.16 7	.03	.36	.00	.1	.10	.05	.40 7	.06	.17	.00	.000
	tailed)	4	1	0	0	1	4	1	4	1		-	8	7			1	1			0									6	/	4	0	U	
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso	.36	30	.15	.39	26	.73	23	26	.01	04	23	29	06	.38	53	36	18	33	66	.25	43	.25		42	.12	33	1	07	<i>A</i> 1	-	.48	.38	.23	
	Correl		6*	7	.57	7	6**	.23	.20	6	7	.23	0	2	3*	9**	7*	2	.33	8**	9	.43	9	1	0*	6	3	52	2	2*	.06	6**	.38	.23	.593**
100	ation																														2				
I23	Sig.	.04	.03	.40	.02	.15	.00	.21	.16	.93	.80	.20	.12	.74	.03	.00	.04	.33	.07	.00	.16	.01	.16		.02	.50	.07	.4	.70	.02	.74	.00	.03	.21	
	(2-tailed)	6	1	7	9	3	0	9	4	2	4	6	0	3	7	2	6	5	4	0	7	6	7		1	8	2	21	4	4	3	6	7	9	.001
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
									7		2	C	,_			人	•	إللد	Ļ	J)	2	-		×											

	Pearso n Correl ation	.26	.48 7**	- .01 6	.26 5	.23	.43 6*	.11	.36 7*	- .01 4	.46 2*	.10	.18	.06	.42 0*	.47 2**	.31	.15 5	.36 8*	.44 1*	.01	.15	.38	.42 0*	1	.12	.37 9*	.3 16	.25	.37 3*	.05	.41 8*	.42 0*	.21	.549**
I24	Sig. (2-tailed)	.15	.00	.93 1	.15	.20	.01 6	.55	.04	.93 9	.01	.57 9	.33	.73 9	.02	.00	.09	.41 4	.04 5	.01	.93 1	.42 9	.03	.02		.50	.03	.0 89	.17	.04	.77 1	.02	.02	.24	.002
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
10.5	Pearso n Correl ation	.06 7	.05	.38 6*	.25	.47 1**	.11	- .19 7	.45 7*	.34	.38 1*	.53 8**	.08	.26 1	.21 7	.12	- .04 4	.00	.16 7	.06	.31	.26 7	.17	.12	.12	1	.06 9	.2 43	.14 6	.11	.54 8**	.31 7	.46 3**	.16 5	.424*
125	Sig. (2-tailed)	.72 4	.79 4	.03	.18	.00	.56	.29	.01	.06 6	.03	.00	.66 1	.16 4	.24	.50	.81 7	.96 7	.37	.74	.09	.15	.36	.50	.50		.71 6	.1 96	.44	.55 7	.00	.08 8	.01	.38 5	.019
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
106	Pearso n Correl ation	.21 7	.50 6**	.25	.20	.16 2	.24	.06 1	.39 7*	.12	.15	.04	.23	.11 6	.41 9*	.37 9*	.42 3*	- .00 6	.26 9	.52 2**	.08	.27 4	.64 8**	.33	.37 9*	.06 9	1	.0 10	.37 2*	.29 6	.10	.22	.22	.35	.520**
I26	Sig. (2-tailed)	.25	.00	.18	.28	.39	.19 5	.74 7	.03	.52	.41 9	.80	.21	.54	.02	.03	.02	.97	.15 1	.00	.65 1	.14	.00	.07	.03	.71 6		.9 57	.04	.11	.59 4	.22	.24	.05 6	.003
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

	Pearso																																		
		.12	.24	.22	.23	.19	.33	.10	.24	.19	.40	.05	.23	.27	.19	.20	.23	.20	.11	.17	.17	.04	.30	.15	.31	.24	.01		.27	.24	.35	.35	.31	.10	
	Correl	7	3	4	6	0	6	2	3	7	3*	6	6	9	7	3	8	3	8	7	1	6	2	2	6	3	0	1	5	8	6	2	3	2	.441*
127	ation																																		
127	Sig.	50	.19	.23	20	.31	06	.59	19	.29	.02	76	21	13	29	28	20	.28	53	.35	36	81	10	.42	.08	.19	.95		14	.18	.05	.05	09	.59	
	(2-	.50	6	5	9	4	9	1	6	7	7	8	0	.13	7	2	5	2	.53	0	6	0	4	1	9	6	7		2	6	4	7	2	1	.015
	tailed)					·	,			,	·		_														,				•	,		1	
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso																																		
	n				.53			.34			.38							.04		.08				.07		.14			1	.17	.41			.12	.567**
	Correl	1	7	0^*	8**	1*	8	5	2**	7**	3*	7	8*	4	6	4*	4	3	6	4	5*	2	0	2	7	6	2*	75		1	0*	4	6	9	
I28	ation																																		
	Sig. (2-	.26	.15	.01	.00	.05	.60	.06	.00	.00	.03	.57	.01	.09	.12	.04	.30	.82	.06	.65	.01	.90	.10	.70	.17	.44	.04	.1		.36	.02	.30	.35	.49	.001
	tailed)	4	3	3	2	0	5	2	0	0	7	4	3	1	5	8	5	2	9	9	9	9	8	4	0	2	3	42		5	4	5	2	6	.001
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso																																		
	n	.47	.47	.14	.44	.47	.41	.41	.23	.12	.29	.10	.36	.29	.55	.37	.75	.37	.07	.59	.35	.27	.35	.41	.37	.11	.29	.2	.17		.18	.43	.44	.31	
	Correl	5**	1**	0	2*	5**	2*	8*	2	3	4	5	8*	3	7**	3*	0**	3*	4	3**	3	9	3	2*	3*	2	6	48	1	1	2	2*	9*	2	.678**
120	ation																																		
I29	Sig.	00	.00	.46	.01	00	02	02	.21	.51	11	57	04	11	00	04	00	.04	60	.00	.05	12	05	.02	04	.55	.11	1	.36		.33	.01	01	.09	
	(2-	.00	.00	.46	.01	.00	.02	.02	.21	.51	.11	.57	.04	.11	.00	.04	.00	.04	.09	.00	.03	.13	.03	.02	.04	.55	.11	.1 86	.30		.33	7	.01	.09	.000
	tailed)	0	7		+	O	+		O	,	5	7	3	U	1	۷	0		7	1	U	U	U	+	۷	,	<i>3</i>	80	3		3		3	+	
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

	Pearso n Correl	.03	.00	.39 7*	.19 9	.53 5**	.08	.00	.41 3*	.47 3**	.23	.11 9	.33	.60 7**	.35	.29	.11	.17 4	.16 6	.08	.43 4*	.04	.15	- .06 2		.54 8**	.10	.3 56	.41 0*	.18	1	.23	.47 3**	- .11 2	.456*
I30	Sig. (2-tailed)	.86 1	.96 2	.03	.29 1	.00	.66 7	.96 7	.02	.00	.20	.53	.07	.00	.05 8	.11 6	.55 7	.35 7	.38	.65 4	.01 6	.80	.40 7	.74	.77 1	.00	.59 4	.0 54	.02	.33		.21	.00	.55 7	.011
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso n Correl ation	.23	.43 7*	.40 0*	.48 9**	.29	.63 3**	.06	.07	.35	.16 9	.05	.37 0*	.00	.46 2*	.52 4**	.25	.09 9	.07	.26 4	.46 6**	.40 9*	.34	.48 6**	.41 8*	.31 7	.22	.3 52	.19	.43 2*	.23	1	.57 1**	.17	.617**
I31	Sig. (2-tailed)	.20	.01 6	.02	.00 6	.10 9	.00	.72	.68 9	.05 6	.37	.78 1	.04	.96 7	.01	.00	.17	.60 2	.69 8	.15 9	.00	.02	.06 4	.00	.02	.08	.22	.0 57	.30	.01 7	.21 9		.00	.35	.000
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso n Correl ation	.03	.21 7	.50 2**	.40 9*	.67 1**	.29 9	.08	.21 7	.44 2*	.47 4**	.37 9*	.30	.38 3*	.44 2*	.42 0*	.35	.20	.37 8*	.22	.38 4*	.28	.25 7	.38	.42 0*	.46 3**	.22	.3 13	.17 6	.44 9*	.47 3**	.57 1**	1	- .02 5	.667**
I32	Sig. (2-tailed)	.87	9	.00	5	0	9	.66	9	4	.00	9	4	7	4	1	.05 6	.28	9	3	6	5	0	.03	1	.01	0	92	.35	.01	.00	.00		.89	.000
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

	Pearso n Correl	.50 7**	.40 5*	.09	.22	.06	.46 3*	.14	.16 5	.08	.21	.37 1*	.40 7*	- .00 8	.19	.21	.49 5**	.11	.03	.46 5**	.02	.02	.64 8**	.23	.21	.16 5	.35	.1 02	.12	.31	- .11 2	.17	- .02 5	1	.446*
I33	Sig. (2-tailed)	.00	.02	.61 8	.23	.75 4	.01	.44	.38	.66	.26	.04	.02	.96 7	.30	.24	.00	.55	.84 6	.01	.88		.00	.21	.24	.38	.05	.5 91	.49 6	.09	.55	.35	.89		.014
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Import	Pearso n Correl ation	.48 3**	.52 4**	.56 6**	.68 0**	.64 4**	.60 1**	.42 1*	.58 8**		.52 3**		.57 0**		.66 0**	.62 5**	.63 6**	.36 7*	.46 3*	.56 6**	.50 6**		.60 1**	.59 3**	.54 9**	.42 4*	.52 0**	.4 41 *	.56 7**	.67 8**	.45 6*	.61 7**		.44 6*	1
ance	Sig. (2-tailed)	.00	.00	.00	.00	.00	0	.02	1	4	.00	3	1	5	.00	0	0	6	0	1	4	5	.00	1	2	9	.00	15	.00	0	1	0	0	4	
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

Importance Reliability Test

Reliability S	Statistics
Cronbach's Alpha	N of Items
.922	33

Performance Validity Test

		P1	P2	P3	P4	P5	P6	P7	P8	P9	P1	P1	P1	P1	P2	P3	P3	P3	P3	Perfor															
	Pearso										0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	mance
	n	1	.14	.31		.53	.20	.09	.08	.13			.05	.51			.29		.24	.30	.28	.17		.23	.44	.29	.24	.17	.28	.13	.21	.20	.20		.558**
	Correl ation		0	0	0**	7**	3	7	2	4	7*	3*	0	8**	1*	7**	0	6**	1	3	6	8	8**	5	2*	6	8	5	5	5	7	0	0	3*	
P1	Sig.		.46	.09	.00	.00	.28	.61	.66	.48	.01	.04	.79	.00	.05	.00	.12	.00	.20	.10	.12	.34	.00	.21	.01	.11	.18	.35	.12	.47	.25	.29	.29	.02	
	(2-tailed)		1	5	3	2	1	2	7	1	3	3	3	3	0	4	1	2	0	3	5	7	2	0	4	2	6	6	7	8	0	0	0	3	.001
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso n	.14		.52	-	.32	.29	.22	.41	-	.00	-	.56	.01	.05	.30	-	.05	.45	.13	.24	.52	.11	.33	.51	.37	.62	.04	.42	.45	.29	.58	.37	.25	
	Correl	0	1	1**	.14 9	6	3	3	3*	.02 8	0	.10	6**	7	1	1	.19 1	9	5*	9	1	3**	3	9	4**	3*	6**	2	3*	2*	6	7**	8*	0	.488**
P2	ation																																		
	Sig. (2-	.46		.00	.43	.07	.11	.23	.02	.88	1.0	.58	.00	.93	.79	.10	.31	.75	.01	.46	.20	.00	.55	.06	.00	.04	.00	.82	.02	.01	.11	.00	.04	.18	.006
	tailed)	1		3	3	9	6	6	3	3	00	3	1	0	1	6	1	8	1	4	0	3	2	7	4	2	0	6	0	2	3	1	0	2	.000
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso																																		
	n	.31		1	.08	.40	.25		.30		.27					.40	.05		.44						.63		.37	.03		.30		.31			.531**
	Correl	0	1**		8	7*	2	0	4	3	7	0	4*	8	4	7*	1	9	8*	9**	4	8**	1*	4	3**	0	0*	1	9	1	6	0	0	7	
Р3	ation Sig.																																		
	(2-	.09	.00		.64	.02	.17	.34	.10	.66	.13	1.0	.01	.29	.23	.02	.78	.12	.01	.00	.30	.00	.02	.07	.00	.24	.04	.87	.56	.10	.07	.09	.09	.76	.003
	tailed)	5	3		5	6	9	2	2	3	8	00	7	5	4	6	8	2	3	7	5	7	8	1	0	2	4	1	8	7	0	6	6	5	
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

	Pearso n Correl	.53 0**	- .14 9	.08	1	.08	.16 4	.10	.11	.09	.60 1**	.42 2*	.17 7	.64 8**	.63 8**	.33	.41 0*	.52 7**	.12	.31	.22	.04	.34	.09	.14	.25	.10	.45 9*	.03	.11	.03	.14	.14	.25	.484**
P4	Sig. (2-tailed)	.00	.43	.64 5		.65 8	.38 5	.59	.54	.61 9	.00	.02	.35	.00	.00	.06 8	.02	.00	.50	.09	.24	.82	.06 4	.61 7	.44 7	.18	.57 9	.01	.87	.54	.84	.45 7	.45 7	.16 6	.007
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso n Correl ation	.53 7**	.32	.40 7*	.08	1	.11	.07	.11 7	.03	.02 7	.40 0*	.08 6	.25 5	.08 6	.31 7	.39 0*	.50 3**	.23	.45 1*	.08	.39 6*	.24	.23	.51 1**	.26 5	.31	.05 7	.00	.14 5	.19 7	.18	.36	.15	.461*
P5	Sig. (2-tailed)	.00	.07 9	.02	.65 8		.53 5	.68	.53 8	.86 7	.88 9	.02	.65 0	.17	.65 1	.08	.03	.00	.20	.01	.66 0	.03	.20	.20	.00	.15 7	.09	.76 6	.98 9	.44 6	.29	.33	.05	.41 9	.010
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
D/C	Pearso n Correl ation	.20	.29	.25	.16 4	.11	1	.03	.07 6	.31 8	.36 4*	.26	.39 5*	.13	.23	.47 2**	.05	.03	.18 9	.18 6	.23	.33	.37 6*	.18	.09 5	.31	.26	.33 7	.34	.37 6*	.23	.47 6**	.04	.41 0*	.477**
P6	Sig. (2-tailed)	.28	.11 6	.17 9	.38 5	.53 5		.86	.68 9	.08 6	.04 8	.16 5	.03	.47 9	.22	.00	.78 1	.84	.31 7	.32	.20	.06	.04	.34	.61 8	.09 6	.16 5	.06 9	.06	.04	.21	.00	.83	.02	.008
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

	Pearso n Correl ation	- .09 7	.22	.18	.10	.07	.03	1	.26 9	.31	.25	.25	.36 9*	.24	.05	.18	.31	.46 5**	.38	.26	.40 0*	.32	- .03 9	.20	.33	.30	.61 2**	.36 9*	.24	.27	.14	.21	.35	.22	.507**
P7	Sig. (2-tailed)	.61 2	.23	.34	.59 0	.68 3	.86 0		.15 1	.09 6	.16 7	.17 9	.04 5	.18 6	.78 4	.33 7	.09 4	.01	.03	.15 9	.02 9	.07	.83	.27	.07	.10 7	.00	.04 5	.18 7	.14	.43	.26 6	.05	.23	.004
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
D.O.	Pearso n Correl ation	.08	.41 3*	.30	.11 6	.11 7	.07	.26 9	1	- .04 4	.29	.08	.47 4**	.09	.07 9	.17 6	.04	.01	.61 1**	.21	.37 5*	.23	.08	.30	.46 8**	.19 4	.56 9**	- .01 6	.37 3*	.35	.46 1*	.50 7**	.01 6	- .06 0	.451*
P8	Sig. (2-tailed)	.66 7	.02	.10	.54	.53	9	1		.81	.11 6	9	8	1	.67 9	.35	1	.93 6	0	0	.04	.21	.64	7	9	.30	1	.93 2	.04	.05	.01	.00	.93 2	.75	.012
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
PO.	Pearso n Correl ation	.13	- .02 8	.08	.09 4	.03	.31	.31	- .04 4	1	.38 8*	.19 9	.20 7	.22 9	- .07 2	.48 6**	.12	.18	.31 4		.54 3**	.18	.10	.27 9	.08	.23 7	.19 9	.07	.25 8	.32	.31	.19 4	.29 4	.30	.425*
P9	Sig. (2-tailed)	.48	.88	.66	.61 9	.86 7	.08	.09 6	.81 8		.03	.29	.27	.22	.70 4	.00	.52	.34	.09	.08	.00	.33	.57 0	.13 6	.66 7	.20	.29	.70 0	.16 9	.08	.08	.30	.11 5	.10	.019
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

	Pearso																																		
	n	.44	.00	.27	.60	.02	.36	.25	.29	.38	1	.46	.35	.55	.64	.42	.40	.41	.40	.32	.55	.05	.43	.21	.27	.23	.40	.44	.15	.21	.41	.31	.02	.38	.661**
	Correl	7*	0	7	1**	7	4*	9	3	8*	1	7**	7	3**	6**	7*	7*	7*	4*	1	9**	3	3*	1	4	8	0*	7*	7	7	2*	3	2	9*	.001
P10	ation																																		
	Sig.	.01	1.0	.13	.00	.88	.04	.16	.11	.03		.00	.05	.00	.00	.01	.02	.02	.02	.08	.00	.78	.01	.26	.14	.20	.02	.01	.40	.25	.02	.09	.90	.03	000
	(2-tailed)	3	00	8	0	9	8	7	6	4		9	3	2	0	9	6	2	7	4	1	1	7	4	3	5	9	3	8	0	4	3	7	3	.000
		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso																																		
	n	.37	-	.00	.42	.40	.26	.25	.08	.19	.46	1	.03	.50	.35	.48	.67	.52		.53	.34	.08	.28	- 05	.10	.30	.18	.48	.09	.12	.28	.11	.33	.27	.551**
	Correl	3*	.10	0	2*	0^*	0	2	1	9	7**	1	7	5**	9	9**	9**	1**	0	4**	9	8	1	.05	1	9	5	4**	8	0	3	2	5	3	.551
P11	ation		-																					0											
	Sig.	.04	.58	1.0	.02	.02	.16	.17	.66	.29	.00		.84	.00	.05	.00	.00	.00	.63	.00	.05	.64	.13	.79	.59	.09	.32	.00	.60	.52	.13	.55	.07	.14	
	(2-	3	3	00	0	8	5	9	9	1	9		5	4	1	6	0	3	7	2	9	2	3	2	4	7	7	7	7	6	0	7	0	4	.002
	tailed)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso	30	50	30	30	30	30	30	50	30	30	50	30	50	30	30	30	30	30	30	30	30	50	30	50	30	50	30	50	30	30	50	30	50	30
	n	.05	.56	.43	.17	.08	.39	.36	.47	.20	.35	.03		.16	.19	.30	.06	.18	.43	.22	.32	.35	.28	.64	.28	.57	.55	.22	.37	.68	.37	.57	.27	.37	-20**
	Correl	0	6**	4*	7	6	5*	9*	4**	7	7	7	1	5	8	1	6	4	3*	9	0	0	2	2**	5	7**	8**	7	0*	6**	6*	1**	2	5*	.639**
P12	ation																																		
1 12	Sig.	.79	.00	.01	.35	.65	.03	.04	.00	.27	.05	.84		.38	.29	.10	.72	.33	.01	.22	.08	.05	.13	.00	.12	.00	.00	.22	.04	.00	.04	.00	.14	.04	
	(2-	3	1	7	1	0	1	5	8	3	3	5		3	3	6	8	1	7	5	5	8	1	0	6	1	1	8	4	0	1	1	6	1	.000
	tailed)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	11	JU	50	50	50	JU	JU	<i>5</i> 0	50	JU	50	JU	JU	50	50	JU	50	JU	JU	JU	JU	50	50	JU	50	50	50	50	50	50	50	50	20	50	50

	Pearso																																		
	n	.51	.01	.19	.64	.25	.13	.24	.09	.22	.55	.50	.16	1	.54	.41	.24	.57	.38	.39	.26	.15	.54	.22	.35	.24	.32	.44	.11	.09	.40	.13	.19	.27	.613**
	Correl	8**	7	8	8**	5	4	8	1	9	3**	5**	5	1	7**	1*	1	0**	9*	3*	8	1	7**	3	8	8	7	4*	7	7	4*	3	3	8	.613
P13	ation																																		
	Sig.	.00	.93	.29	.00	.17	.47	.18	.63	.22	.00	.00	.38		.00	.02	.20	.00	.03	.03	.15	.42	.00	.23	.05	.18	.07	.01	.53	.61	.02	.48	.30	.13	000
	(2-tailed)	3	0	5	0	5	9	6	1	3	2	4	3		2	4	0	1	4	1	3	4	2	7	2	6	8	4	8	2	7	2	6	7	.000
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso																																		
	n	.36	.05	.22	.63	.08	.23	.05	.07	.07	.64	.35	.19	.54	1	.02	.40	.32	.08	.15	.15	.04	.38	.02	.22	.10	.17	.37	.09	.09	.17	.07	.01	.39	.420*
	Correl	1*	1	4	8**	6	1	2	9	2	6**	9	8	7**	1	2	4*	0	7	9	0	.04	9*	4	1	7	9	9*	.07	7	6	2	8	7*	.420
P14	ation																																		
	Sig. (2-	.05	.79	.23	.00	.65	.22	.78	.67	.70	.00	.05	.29	.00		.91	.02	.08	.64	.40	.42	.82	.03	.89	.24	.57	.34	.03	.61	.60	.35	.70	.92	.03	.021
	tailed)	0	1	4	0	1	0	4	9	4	0	1	3	2		0	7	5	8	0	8	2	4	9	0	4	3	9	8	9	2	5	5	0	.021
		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso																																		
			.30	.40	.33	.31	.47	.18	.17	.48	.42	.48	.30	.41	.02	1	.30	.38	.40	.56	.47	.41	.33	.16	.34	.37	.40	.18	.36	.33	.44	.50	.41	.20	.683**
	Correl	7**	1	7*	7	7	2**	1	6	6**	7*	9**	1	1*	2	1	1	6*	9*	9**	5**	8*	7	5	1	1*	0*	2	3*	7	9*	3**	4*	2	.003
P15	ation																																		
	Sig. (2-	.00	.10	.02	.06	.08	.00	.33	.35	.00	.01	.00	.10	.02	.91		.10	.03	.02	.00	.00	.02	.06	.38	.06	.04	.02	.33	.04	.06	.01	.00	.02	.28	.000
	tailed)	4	6	6	8	8	9	7	3	6	9	6	6	4	0		6	5	5	1	8	2	8	5	5	4	8	7	8	8	3	5	3	4	.000
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

	Pearso n Correl ation	.29	- .19 1		.41 0*	.39 0*	.05	.31	.04	.12		.67 9**	.06 6	.24	.40 4*	.30	1	.57 4**	.04	.26	.27	.03	.13	.00	.13	.22	.18	.16 9	- .16 7	.06 7	.06	.05	.18	.30	.412*
P16	Sig. (2-tailed)	.12	.31	.78 8	.02	.03	.78 1	.09	.83	.52	.02	.00	.72 8	.20	.02 7	.10 6		.00	.81	.15	.14 7	.85 7	.48	.97 7	.47 6	.24	.32	.37	.37 8	.72 6	.74 2	.76 1	.33	.10	.024
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso n Correl ation	.53 6**	.05 9	.28 9	.52 7**	.50 3**		.46 5**	.01 5	.18	.41 7*	.52 1**	.18	.57 0**	.32	.38 6*	.57 4**	1	.35	.40 3*	.42 9*		.48 9**	.24	.39 9*	.37 2*	.38 2*	.48 6**	- .03 9	.03	.02	.16 5	.37 4*	.48 2**	.641**
P17	Sig. (2-tailed)	.00	.75 8	.12	.00	.00	.84	.01	.93 6	.34	.02	.00	.33	.00	.08	.03	.00		.05	7	8	5	6	.18 7	.02	.04	.03	.00	.83 9	.84	.88	.38	.04	.00	.000
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
P18	Pearso n Correl ation		.45 5*	.44 8*	.12	.23	.18 9	.38 4*	.61 1**	.31 4	.40 4*	.09	.43 3*	.38 9*	.08 7	.40 9*	.04 5	.35	1	.33	.50 8**	.25	.38 9*		.63 9**	.10 7	.62 8**	.16 2	.25	.19 4	.50 9**	.46 9**	.19 8	.09 9	.617**
P16	Sig. (2-tailed)	.20	.01	.01	.50 1	.20 7	.31 7	.03 6	.00	.09 1	.02 7	.63 7	.01 7	.03	.64 8	.02	.81 4	.05 6		.06 7	.00	.17	.03	.06 6	.00	.57 4	.00	.39 1	.17 7	.30	.00 4	.00	.29	.60 2	.000
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

	Pearso																																		
	n	.30	.13	.47	.31	.45	.18	.26	.21	.31	.32	.53	.22	.39	.15	.56	.26	.40	.33	1	.37	.30	.22	.19	.27	.34	.12	.36	.23	.31	.29	.26	.51	.00	.590**
	Correl	3	9	9**	2	1*	6	4	7	7	1	4**	9	3*	9	9**	5	3*	8	1	0*	8	3	7	0	3	3	6*	4	2	0	7	5**	5	.590
P19	ation																																		
	Sig. (2-	.10	.46	.00	.09	.01	.32	.15	.25	.08	.08	.00	.22	.03	.40	.00	.15	.02	.06		.04	.09	.23	.29	.14	.06	.51	.04	.21	.09	.12	.15	.00	.97	.001
	tailed)	3	4	7	3	2	5	9	0	8	4	2	5	1	0	1	8	7	7		4	8	7	8	9	4	6	7	3	4	1	4	4	9	.001
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso																																		
		.28			.22	.08			.37						.15			.42	.50		1		.21					.39	.47	.29		.38			.654**
	Correl	6	1	4	1	4	6	0*	5*	3**	9**	9	0	8	0	5**	1	9*	8**	0*		7	0	1	5	6*	7*	8*	2**	4	4*	2*	2*	5	
P20	ation Sig.																																		
	(2-	.12			.24	.66	.20		.04		.00	.05	.08	.15					.00	.04		.37		.24	.17		.01			.11					.000
	tailed)	5	0	5	1	0	9	9	1	2	1	9	5	3	8	8	7	8	4	4		8	5	1	4	2	9	0	8	4	3	7	7	0	
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso														_		_																		
		.17				.39	.33			.18		.08			.04	.41	.03	.17	.25	.30		1					.53			.28		.53		.14	.506**
	Correl ation	8	3**	8**	2	6*	8	7	3	2	3	8	0	1	3	8*	4	1	7	8	7		2	2	2*	6	1**	4	5*	8	6	9**	0*	1	
P21	Sig.																																		
	(2-	.34	.00			.03			.21							.02	.85	.36			.37						.00								.004
	tailed)	1	3	7	6	0	8	8	5	5	1	2	8	4	2	2	7	5	0	8	8		0	8	4	9	3	1	1	3	3	2	2	6	
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

	Pearso																																		
	n	.53	.11	.40	.34	.24	.37	.03	.08	.10	.43	.28	.28	.54	.38	.33	.13	.48	.38	.22	.21	.19	1	.38	.44	.04	.28	.28	.17	.04	.13	.20	.04	.44	.524**
	Correl	8**	3	1*	3	1	6*	.03	8	8	3*	1	2	7**	9*	7	4	9**	9*	3	0	2	1	0*	0*	8	1	2	7	3	1	2	0	4*	.324
P22	ation																																		
122	Sig.	.00	.55	.02	.06	.20	.04	.83	.64	.57	.01	.13	.13	.00	.03	.06	.48	.00	.03	.23	.26	.31		.03	.01	.80	.13	.13	.35	.82	.49	.28	.83	.01	
	(2-	2	2	8	4	0	1	8	3	0	7	3	1	2	4	8	1	6	4	7	5	0		8	5	2	3	1	0	0	0	5	2	4	.003
	tailed)	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
			30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso		.33	.33	.09	.23	18	.20	.30	.27	.21	-	.64	.22	.02	16	00	.24	3/	.19	22	.23	.38		.38	.41	.45	.00	.41	.38	.28	.56	.16	.32	
	Correl		9	.55	.09	.23	.16	.20	.30	.27	.21	.05	2**	.22	.02	.10	.00	.24	.54	7	.22	2	.38	1	.38 4*	8*	.43	3	0*	.38		8**	.10	.32	.511**
	ation			·		,	Ü		Ü		-	0	_		·		Ü		Ü	·	-	_	Ü		•	O	-							-	
P23	Sig.																																		
	(2-	.21			.61	.20				.13					.89			.18			.24	.21			.03			.98		.03		.00		.08	.004
	tailed)	0	7	1	7	8	2	8	7	6	4	2	0	7	9	5	7	7	6	8	1	8	8		6	1	2	6	5	8	3	1	5	4	
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso																											_							
	n			.63	.14		.09	.33		.08	.27	.10	.28	.35	.22	.34	.13	.39	.63	.27	.25	.41	.44	.38	1	.12		.02	.28	.11	.46	.42	.22	.20	.600**
	Correl	2*	4**	3**	4	1**	5	5	8**	2	4	1	5	8	1	1	5	9*	9**	0	5	2*	0*	4*		1	9**	0	6	0	4**	8*	4	6	
P24	ation																																		
	Sig.	.01	.00	.00	.44	.00	.61	.07	.00	.66	.14	.59	.12	.05	.24	.06	.47	.02	.00	.14	.17	.02	.01	.03		.52	.00	.91	.12	.56	.01	.01	.23	.27	000
	(2-tailed)	4	4	0	7	4	8	0	9	7	3	4	6	2	0	5	6	9	0	9	4	4	5	6		4	0	5	5	3	0	8	4	5	.000
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

	Pearso																																		
	n	.29	.37	.22	.25	.26	.31	.30	.19	.23	.23	.30	.57	.24	.10	.37	.22	.37	.10	.34	.41	.31	.04	.41	.12	1	.22	.39	.42	.52	.33	.39	.48	.48	.609**
	Correl	6	3*	0	1	5	0	0	4	7	8	9	7**	8	7	1*	1	2*	7	3	6*	6	8	8*	1	1	1	9*	8*	6**	7	9*	8**	9**	.009
P25	ation																																		
	Sig.	.11	.04	.24	.18	.15	.09	.10	.30	.20	.20	.09	.00	.18	.57	.04	.24	.04	.57	.06	.02	.08	.80	.02	.52		.24	.02	.01	.00	.06	.02	.00	.00	000
	(2-tailed)	2	2	2	0	7	6	7	5	6	5	7	1	6	4	4	1	3	4	4	2	9	2	1	4		1	9	8	3	9	9	6	6	.000
		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso	50	50	50	50	30	30	50	30	30	50	50	50	30	50	30	50	30	50	50	50	50	30	30	50	30	30	30	30	50	30	30	30	30	- 50
	n	.24	.62	.37	.10	.31	.26	.61	.56	.19	.40	.18	.55	.32	.17	.40	.18	.38	.62	.12	.42	.53	.28	.45	.60	.22	_	.11	.35	.36	.44	.63	.18	.34	-0.0**
	Correl	8	6**	0^*	5	1	0	2**	9**	9	0*	5	8**	7	9	0^*	5	2*	8**	3	7*	1**	1	1*	9**	1	1	2	9	1*	4*	3**	6	2	.698**
P26	ation																																		
120	Sig.	.18	.00	.04	.57	.09	.16	.00	.00	.29	.02	.32	.00	.07	.34	.02	.32	.03	.00	.51	.01	.00	.13	.01	.00	.24		.55	.05	.05	.01	.00	.32	.06	
	(2-	6	0	4	9	4	5	0	1	1	9	7	1	8	3	8	8	7	0	6	9	3	3	2	0	1		7	1	0	4	0	5	5	.000
	tailed)	30	20	20	20	30	20	30	30	30	30	30	30	30	30	20	20	30	20	30	30	30	30	30	30	30	30	20	30	30	30	30	30	30	30
	N Pearso	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	n	.17	.04	.03	.45	.05	.33	.36	-	.07	.44	.48	.22	.44	.37	.18	.16	.48	.16	.36	.39	.02	.28	.00	-	.39	.11		.19	.12	-	-	.37	.28	
	Correl		2	1	9*	7	7	9*	.01	3	7*	4**	7	4*	9*	2	9	6**	2	6*	8*	4	2	3	.02	9*	2	1	5	1	.00		2*	4	.466**
D27	ation								6																0						3	2			
P27	Sig.	35	.82	87	01	76	06	04	.93	70	01	00	22	01	.03	33	37	00	30	04	03	90	.13	98	91	.02	.55		.30	.52	.98	.99	.04	.12	
	(2-	6	6	1	.01	6	.00	.04	.93	0	.01	7	8	.01	.03	.33	.37	6	.39	.04	0	1	1	.98	.91	9	.33		.30	.52	9	0	.04	9	.009
	tailed)																																		
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

	Pearso																																		
	n	.28	.42	.10	.03	.00	.34	.24	.37	.25	.15	.09	.37	.11	.09	.36	16	.03	.25	.23	.47	.39	.17	.41	.28	.42	.35	.19	1	.53	.31	.54	.35	.33	.505**
	Correl	5	3*	9	1	3	1	7	3*	8	7	8	0*	7	.09	3*	7	.03	3	4	2**	5*	7	0*	6	8*	9	5	1	1**	1	9**	2	3	.303
P28	ation														3		,																		
120	Sig.	.12	.02	.56	.87	.98	.06	.18	.04	.16	.40	.60	.04	.53	.61	.04	.37	.83	.17	.21	.00	.03	.35	.02	.12	.01	.05	.30		.00	.09	.00	.05	.07	
	(2-	7	0	8	1	9	5	7	2	9	8	7	4	8	8	8	8	9	7	3	8	1	0	5	5	8	1	2		3	5	2	6	2	.004
	tailed)	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20		20	20
		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso	12	15	20	.11	1.4	.37	27	25	.32	21	12	60	.09	00	22	06	02	10	21	20	20	04	.38	11	.52	26	.12	.53		.30	.36	.36	.44	
	Correl		2*	.30	.11	.14	.57 6*	.27	.33	.52	.21	0	6**	.09	.09	.33	7	.03	.19	2	4	.28	3	0*	0	.32	.36 1*	.12	.33	1	.30		3*	4*	.539**
	ation	3	2	1	7	3	O	3	2	7	,	U	U	,	,	,	,		-		-	0				O	1	1	1			3		7	
P29	Sig.																																		
	(2-				.54		.04			.08				.61											.56			.52	.00		.10			.01	.002
	tailed)	8	2	7	8	6	1	4	6	1	0	6	0	2	9	8	6	4	3	4	4	3	0	8	3	3	0	4	3		0	9	9	4	
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso																																		
	n	.21	.29	.33	.03	.19	.23	.14	.46	.31	.41	.28	.37	.40	.17	.44	.06	.02	.50	.29	.41	.29	.13	.28	.46	.33	.44	.00	.31	.30	1	.43	.19	.04	.541**
	Correl	7	6	6	8	7	3	9	1*	8	2*	3	6*	4*	6	9*	3	8	9**	0	4*	6	1	8	4**	7	4*	3	1	6	1	5*	2	0	.541
P30	ation																																		
	Sig.	.25	.11	.07	.84	.29	.21	.43	.01	.08	.02	.13	.04	.02	.35	.01	.74	.88	.00	.12	.02	.11	.49	.12	.01	.06	.01	.98	.09	.10		.01	.30	.83	
	(2-tailed)	0	3	0	1	7	5	2	0	6	4	0	1	7	2	3	2	4	4	1	3	3	0	3	0	9	4	9	5	0		6	9	5	.002
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

	Pearso																											_							
	n	.20	.58 7**			.18			.50 7**				.57 1**		.07	.50 3**			.46 9**		.38 2*	.53		.56 8**	.42 8*	.39	.63 3**	.00	.54 9**	.36		1		.31	.625**
	Correl	0	7	0	1	2	6**	0	7	4	3	2	1	3	2	3	8	5	9	7	2	9	2	8	8	9.	3	2	9	3*	5*		7	1	
P31	Sig.																																		
	(2-	.29		.09			.00	.26	.00		.09		.00			.00			.00			.00		.00				.99	.00	.04			.34	.09	.000
	tailed)	0	1	6	7	7	8	6	4	6	3	7	1	2	5	5	1	3	9	4	7	2	5	1	8	9	0	0	2	9	6		9	4	
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso										-				_																				
	n	.20		.31		.36	.04	.35	.01	.29	.02	.33	.27	.19	.01			.37	.19			.45		.16	.22		.18		.35	.36			1	.17	.504**
	Correl	0	8*	0	1	0	1	4	6	4	2	5	2	3	8	4*	2	4*	8	5**	2*	0*	0	5	4	8**	6	2*	2	3*	2	7		4	
P32	Sig.																																		
	(2-	.29	.04	.09		.05	.83	.05			.90	.07	.14	.30				.04				.01		.38			.32		.05	.04				.35	.005
	tailed)	0	0	6	7	0	1	5	2	5	7	0	6	6	5	3	6	1	3	4	7	2	2	5	4	6	5	3	6	9	9	9		8	
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Pearso								_																										
		.41	.25	.05		.15	.41	.22	.06	.30	.38		.37	.27	.39			.48	.09			.14		.32	.20			.28	.33		.04	.31	.17	1	.545**
	Correl	3*	0	7	9	3	0*	6	0	0	9*	3	5*	8	7*	2	0	2**	9	5	5	1	4*	1	6	9**	2	4	3	4*	0	1	4		
P33	ation																																		
	Sig. (2-	.02	.18	.76	.16	.41	.02	.23	.75	.10	.03	.14	.04	.13	.03	.28	.10	.00	.60	.97	.09	.45	.01	.08	.27	.00	.06	.12	.07	.01	.83	.09	.35		.002
	tailed)	3	2	5	6	9	4	0	3	7	3	4	1	7	0	4	8	7	2	9	0	6	4	4	5	6	5	9	2	4	5	4	8		.002
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

	Pearso																																		
	n	.55	.48	.53	.48	.46	.47	.50	.45	.42	.66	.55	.63	.61	.42	.68	.41	.64	.61	.59	.65	.50	.52	.51	.60	.60	.69	.46	.50	.53	.54	.62	.50	.54	
	Correl	8**	8**	1**	4**	1*	7**	7**	1*	5*	1**	1**	9**	3**	0*	3**	2*	1**	7**	0**	4**	6**	4**	1**	0^{**}	9**	8**	6**	5**	9**	1**	5**	4**	5**	1
Perfor	ation																																		
mance	Sig.	00	00	00	00	0.1	00	00	0.1	0.1	00	00	00	00	02	00	0.2	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	(2-	.00	.00	.00	.00	.01	.00	.00	.01	.01	.00	.00	.00	.00	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
	tailed)	1	6	3	7	0	8	4	2	9	0	2	0	0	1	0	4	0	0	1	0	4	3	4	0	0	0	9	4	2	2	0	5	2	
	N	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

Performance Reliability Test

Reliability Statistics											
Cronbach's Alpha	N of Items										
.925	33										