

ABSTRACT

The influence of urbanization has resulted in a very dense population growth in the city of Yogyakarta. This population growth means that housing needs are increasing. The most obvious example is the Jogoyudan village of Yogyakarta. The village on the banks of the River Code has a very narrow period between buildings. Plus the habit of residents who still cannot maintain the surrounding environment, especially the Code River area. Not only stop there, residents in fulfilling their daily food needs begin to interact by planting kitchen vegetables at the back of the house with simple media to add to their food needs. The aim of this Final Bachelor Project is to design vertical housing by having an independent farming system or group to respond to the limited land occupancy and fulfillment of food needs for residents. Vertical residential arrangement is considered effective to accommodate large numbers of residents with limited land availability. Settlement of vertical residential issues is contextualized on site locations by looking at the character and culture of the community before the existence of vertical occupancy. Mutual cooperation (gathering), and farming of the residents had previously become the concept of vertical occupancy by emphasizing the atmosphere and culture of village behavior in the design of the Jogoyudan Vertical Village, while providing the Urban Farming system as independent agricultural land and groups aimed at meeting food needs and as a space for social interaction between residents. The method used to collect data is survey data, interviews with residents of RW 10 Jogoyudan, Jogoyudan village equipment and direct observation on the site to obtain primary data in the form of environmental conditions of RW 10 Jogoyudan villages, routine community activities and data on the number of RW 10 kampung family heads Jogoyudan. While secondary data is obtained from the study of books, theses, journals, related regulations, articles and supporting news. The results of this design are in the form of residences with the concept of a vertical village on Jogoyudan 10 Rw which has an Urban farming system in the form of kitchen vegetable and fruit farming. This vertical village is manifested in the communal space of each floor that is able to provide social activities in the form of Hydroponic and Aquaponic agriculture as a medium for interaction between residents. While the agricultural activities are carried out at each residence.

Keywords: Vertical Village, Urban Farming, Hydroponic and Aquaponic systems.