

Lampiran

Source Code Pembuatan Aplikasi Sistem Metadata Forensik

```
import java.io.File;
import java.io.FileFilter;
import java.io.FileInputStream;
import java.io.IOException;
import java.io.InputStream;
import java.nio.file.Files;
import java.nio.file.Path;
import java.nio.file.Paths;
import java.nio.file.attribute.BasicFileAttributes;
import java.nio.file.attribute.FileOwnerAttributeView;
import java.nio.file.attribute.UserPrincipal;
import java.security.MessageDigest;
import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.Map;
import javax.swing.JFileChooser;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
/**
 * @author Amikom
 */
public class Home extends javax.swing.JFrame {
    /**
     * Creates new form Home
     */
    public Home() {
        initComponents();
        setIconImage(new javax.swing.ImageIcon(this.getClass().getResource("/tag.png")).getImage());
        tabelMeta.setModel(tModel);
        tabelHasil.setModel(tModelHasil);
        disablekorelasi(false);
        setLocationRelativeTo(null);
        jPanel12.setVisible(false);
    }
    private void initComponents() {
        jFileChooser1 = new javax.swing.JFileChooser();
        buttonGroup1 = new javax.swing.ButtonGroup();
        jLabel5 = new javax.swing.JLabel();
        jFileChooser2 = new javax.swing.JFileChooser();
        jPanel11 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        txtNamaFile = new javax.swing.JTextField();
        jButton1 = new javax.swing.JButton();
        jTabbedPane2 = new javax.swing.JTabbedPane();
        jPanel12 = new javax.swing.JPanel();
        jTabbedPane1 = new javax.swing.JTabbedPane();
        jPanel15 = new javax.swing.JPanel();
        jLabel3 = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel7 = new javax.swing.JLabel();
        jLabel8 = new javax.swing.JLabel();
        txtLokasi = new javax.swing.JTextField();
        txtNamaFile2 = new javax.swing.JTextField();
        txtTypeFile = new javax.swing.JTextField();
        txtAuthors = new javax.swing.JTextField();
        txtComputer = new javax.swing.JTextField();
        txtOwner = new javax.swing.JTextField();
        jPanel16 = new javax.swing.JPanel();
        jScrollPane1 = new javax.swing.JScrollPane();
        tabelMeta = new javax.swing.JTable();
        jPanel17 = new javax.swing.JPanel();
        jScrollPane3 = new javax.swing.JScrollPane();
        txtSUM = new javax.swing.JTextArea();
        jPanel13 = new javax.swing.JPanel();
        jButton2 = new javax.swing.JButton();
        jLabel2 = new javax.swing.JLabel();
        txtPath = new javax.swing.JTextField();
    }
}
```



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jLabel8.setText("Computer");
txtLokasi.setEditable(false);
txtLokasi.setBackground(new java.awt.Color(204, 255, 204));
txtNamaFile2.setEditable(false);
txtNamaFile2.setBackground(new java.awt.Color(204, 255, 204));
txtTypeFile.setEditable(false);
txtTypeFile.setBackground(new java.awt.Color(204, 255, 204));
txtAuthors.setEditable(false);
txtAuthors.setBackground(new java.awt.Color(204, 255, 204));
txtComputer.setEditable(false);
txtComputer.setBackground(new java.awt.Color(204, 255, 204));
txtOwner.setEditable(false);
txtOwner.setBackground(new java.awt.Color(204, 255, 204));
javax.swing.GroupLayout jPanel5Layout = new javax.swing.GroupLayout(jPanel5);
jPanel5.setLayout(jPanel5Layout);
jPanel5Layout.setHorizontalGroup(
    jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel5Layout.createSequentialGroup()
            .addGap(723, Short.MAX_VALUE)
            .addComponent(txtLokasi, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(txtNamaFile2, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(txtTypeFile, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(txtAuthors, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(txtComputer, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(txtOwner, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(191, Short.MAX_VALUE))
        .addGroup(jPanel5Layout.createSequentialGroup()
            .addGap(723, Short.MAX_VALUE)
            .addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel8, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(191, Short.MAX_VALUE))
        .addGroup(jPanel5Layout.createSequentialGroup()
            .addGap(723, Short.MAX_VALUE)
            .addComponent(jLabel13, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel16, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel14, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel17, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel18, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(191, Short.MAX_VALUE))
    )
)
.addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
.addComponent(jLabel8, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
);
jPanel5Layout.setVerticalGroup(
    jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel5Layout.createSequentialGroup()
            .addGap(723, Short.MAX_VALUE)
            .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel3)
                .addComponent(txtLokasi, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel13, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel6)
                .addComponent(txtNamaFile2, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel16, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel4)
                .addComponent(txtTypeFile, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel14, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel7)
                .addComponent(txtAuthors, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel17, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jLabel8, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(191, Short.MAX_VALUE))
            .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel3)
                .addComponent(jLabel6)
                .addComponent(jLabel4)
                .addComponent(jLabel7)
                .addComponent(jLabel8)
                .addGap(191, Short.MAX_VALUE))
            .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel13)
                .addComponent(jLabel16)
                .addComponent(jLabel14)
                .addComponent(jLabel17)
                .addComponent(jLabel18)
                .addGap(191, Short.MAX_VALUE))
        )
)
);
jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel5Layout.createSequentialGroup()
        .addGap(723, Short.MAX_VALUE)
        .addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel8, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(191, Short.MAX_VALUE))
    )
);
jTabbedPane1.addTab("General", jPanel5);
tabelMeta.setModel(new javax.swing.table.DefaultTableModel(

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        new Object [][] {
            {null, null, null},
            {null, null, null},
            {null, null, null},
            {null, null, null}
        },
        new String [] {
            "Title 1", "Title 2", "Title 3"
        }
    );
jScrollPane1.setViewportView(tabelMeta);
javax.swing.GroupLayout jPanel6Layout = new javax.swing.GroupLayout(jPanel6);
jPanel6.setLayout(jPanel6Layout);
jPanel6Layout.setHorizontalGroup(
jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel6Layout.createSequentialGroup()
        .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addGap(10, 10, 10)
        .addComponent(jScrollPane2, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addGap(10, 10, 10)
        .addComponent(jScrollPane3, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
    )
);
jPanel6Layout.setVerticalGroup(
    jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(jScrollPane2, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(jScrollPane3, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
);
jTabbedPane1.addTab("Detail", jPanel6);
txtSUM.setEditable(false);
txtSUM.setColumns(20);
txtSUM.setRows(5);
txtSUM.setAutoscrolls(false);
jScrollPane3.setViewportView(txtSUM);
javax.swing.GroupLayout jPanel7Layout = new javax.swing.GroupLayout(jPanel7);
jPanel7.setLayout(jPanel7Layout);
jPanel7Layout.setHorizontalGroup(
jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel7Layout.createSequentialGroup()
        .addComponent(jScrollPane3, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addGap(10, 10, 10)
        .addComponent(jScrollPane4, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addGap(10, 10, 10)
        .addComponent(jScrollPane5, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
    )
);
jPanel7Layout.setVerticalGroup(
    jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jScrollPane3, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(jScrollPane4, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(jScrollPane5, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
);
jTabbedPane1.addTab("CheckSum", jPanel7);
javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
jPanel2.setLayout(jPanel2Layout);
jPanel2Layout.setHorizontalGroup(
jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addComponent(jTabbedPane2, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addGap(10, 10, 10)
        .addComponent(jScrollPane6, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
    )
);
jPanel2Layout.setVerticalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jTabbedPane2, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(jScrollPane6, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
);
jTabbedPane2.addTab("Detail Meta Data", jPanel2);
jButton2.setText("Korelasi File");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
);

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        .addComponent(txtAntaraAwal,                               javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel14))
        .addGap(3, 3, 3)
        .addComponent(jLabel12)
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
.addGroup(jPanel11Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(txtAntaraAkhir,           javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel15))
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
);
buttonGroup1.add(rbantara2);
rbantara2.setText("Antara");
jLabel16.setText("Dari Tanggal/jam");
tglAntaraAwal.setDate(new Date());
tglAntaraAwal.setDateFormatString("dd MM yyyy hh:mm:ss");
jLabel17.setText("Sampai Tangal/Jam");
tglAnataraAkhir.setDate(new Date());
tglAnataraAkhir.setDateFormatString("dd MM yyyy hh:mm:ss");
javax.swing.GroupLayout jPanel12Layout = new javax.swing.GroupLayout(jPanel12);
(jPanel12.setLayout(jPanel12Layout);
(jPanel12Layout.setHorizontalGroup(
(jPanel12Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel12Layout.createSequentialGroup()
        .addComponent(jPanel12Layout.createSequentialGroup()
        .addComponent(tglAntaraAwal,           javax.swing.GroupLayout.PREFERRED_SIZE, 159,
Short.MAX_VALUE)
        .addGroup(jPanel12Layout.createSequentialGroup()
        .addComponent(jPanel12Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(rbantara2)
        .addComponent(jLabel16)
        .addComponent(jLabel17))
        .addGap(0, 0, Short.MAX_VALUE))
        .addComponent(tglAnataraAkhir,           javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addContainerGap()))
);
jPanel12Layout.setVerticalGroup(
(jPanel12Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel12Layout.createSequentialGroup()
        .addComponent(jPanel12Layout.createSequentialGroup()
        .addComponent(rbantara2)
        .addComponent(jLabel16)
        .addComponent(jLabel17))
        .addGap(0, 0, Short.MAX_VALUE))
        .addComponent(tglAnataraAkhir,           javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addContainerGap())
);
buttonGroup1.add(rbSama);
rbSama.setSelected(true);
rbSama.setText("Sama Dengan");
buttonGroup1.add(rbSamaKecil);
rbSamaKecil.setText("Lebih Kecil Sama Dengan");
buttonGroup1.add(rbSamaBesar);
rbSamaBesar.setText("Lebih Besar Sama Dengan");
buttonGroup1.add(rbBesar);
rbBesar.setText("Lebih Besar");
buttonGroup1.add(rbKecil);
rbKecil.setText("Lebih Kecil");
javax.swing.GroupLayout jPanel13Layout = new javax.swing.GroupLayout(jPanel13);
(jPanel13.setLayout(jPanel13Layout);
(jPanel13Layout.setHorizontalGroup(
(jPanel13Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel13Layout.createSequentialGroup()
        .addComponent(jPanel13Layout.createSequentialGroup()
        .addComponent(rbSama)
        .addComponent(rbKecil)
        .addComponent(rbBesar)

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});
chkFiletype.setText("File Type");
chkOwner.setText("Cari Nama Pemilik File Disini:");
chkOwner.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        chkOwnerMouseClicked(evt);
    }
    public void mouseReleased(java.awt.event.MouseEvent evt) {
        chkOwnerMouseReleased(evt);
    }
});
javax.swing.GroupLayout jPanel9Layout = new javax.swing.GroupLayout(jPanel9);
jPanel9.setLayout(jPanel9Layout);
jPanel9Layout.setHorizontalGroup(
jPanel9Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel9Layout.createSequentialGroup()
        .addComponent(chkAuthor)
        .addGroup(jPanel9Layout.createSequentialGroup()
            .addGap(40, 40, 40)
            .addComponent(chkOwner)
        )
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(txtOwnerManual, javax.swing.GroupLayout.PREFERRED_SIZE, 132, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(chkFiletype)
    )
    .addGroup(jPanel9Layout.createSequentialGroup()
        .addGap(10, 10, 10)
        .addComponent(jPanel9Layout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    )
);
jPanel9Layout.setVerticalGroup(
jPanel9Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel9Layout.createSequentialGroup()
        .addGap(10, 10, 10)
        .addComponent(jPanel9Layout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    )
    .addGroup(jPanel9Layout.createSequentialGroup()
        .addGap(10, 10, 10)
        .addComponent(jPanel9Layout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(10, 10, 10)
        .addComponent(jPanel9Layout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    )
    .addGroup(jPanel9Layout.createSequentialGroup()
        .addGap(10, 10, 10)
        .addComponent(jPanel9Layout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    )
);
javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);
jPanel3.setLayout(jPanel3Layout);
jPanel3Layout.setHorizontalGroup(
jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel3Layout.createSequentialGroup()
        .addGap(10, 10, 10)
        .addComponent(jPanel3Layout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    )
    .addGroup(jPanel3Layout.createSequentialGroup()
        .addGap(10, 10, 10)
        .addComponent(jPanel3Layout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(10, 10, 10)
        .addComponent(jPanel3Layout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    )
    .addGroup(jPanel3Layout.createSequentialGroup()
        .addGap(10, 10, 10)
        .addComponent(jPanel3Layout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(10, 10, 10)
        .addComponent(jPanel3Layout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    )
    .addGroup(jPanel3Layout.createSequentialGroup()
        .addGap(10, 10, 10)
        .addComponent(jPanel3Layout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    )
);
jPanel3Layout.setVerticalGroup(
jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel3Layout.createSequentialGroup()
        .addGap(10, 10, 10)
        .addComponent(jPanel3Layout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    )
    .addGroup(jPanel3Layout.createSequentialGroup()
        .addGap(10, 10, 10)
        .addComponent(jPanel3Layout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(10, 10, 10)
        .addComponent(jPanel3Layout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    )
    .addGroup(jPanel3Layout.createSequentialGroup()
        .addGap(10, 10, 10)
        .addComponent(jPanel3Layout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(10, 10, 10)
        .addComponent(jPanel3Layout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    )
    .addGroup(jPanel3Layout.createSequentialGroup()
        .addGap(10, 10, 10)
        .addComponent(jPanel3Layout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    )
);

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        .addComponent(jPanel8,                                     javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,                                     javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jPanel9,                                     javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,                                     javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jButton2)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
);
jTabbedPane2.addTab("Korelasi Meta Data", jPanel3);
tabelHasil.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null}
    },
    new String [] {
        "Title 1", "Title 2", "Title 3", "Title 4"
    }
));
jScrollPane2.setViewportView(tabelHasil);
javax.swing.GroupLayout jPanel4Layout = new javax.swing.GroupLayout(jPanel4);
jPanel4.setLayout(jPanel4Layout);
jPanel4Layout.setHorizontalGroup(
jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel4Layout.createSequentialGroup()
        .addContainerGap()
        .addComponent(jScrollPane2,           javax.swing.GroupLayout.DEFAULT_SIZE, 840,
Short.MAX_VALUE)
        .addContainerGap())
);
jPanel4Layout.setVerticalGroup(
jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel4Layout.createSequentialGroup()
        .addContainerGap()
        .addComponent(jScrollPane2,           javax.swing.GroupLayout.DEFAULT_SIZE, 380,
Short.MAX_VALUE)
        .addContainerGap())
);
jTabbedPane2.addTab("Hasil Korelasi", jPanel4);
jPanel10.setBorder(javax.swing.BorderFactory.createEtchedBorder());
jLabel13.setText("Copy Right @ 2017 By Subli");
javax.swing.GroupLayout jPanel10Layout = new javax.swing.GroupLayout(jPanel10);
jPanel10.setLayout(jPanel10Layout);
jPanel10Layout.setHorizontalGroup(
jPanel10Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel10Layout.createSequentialGroup()
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jLabel13)
        .addContainerGap())
);
jPanel10Layout.setVerticalGroup(
jPanel10Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel13)
);
javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
        .addGap(0, 0, 0)
        .addComponent(jPanel10,           javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jTabbedPane2))
    .addComponent(jPanel11,           javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGap(0, 0, 0)
        .addComponent(jPanel11,           javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jTabbedPane2))
    .addComponent(jPanel10,           javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
);

```

```

        .addComponent(jTabbedPane2)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jPanel10,                                     javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
);
pack();
}
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
kosong();
if (jFileChooser1 == null) {
    jFileChooser1 = new JFileChooser();
    jFileChooser1.addChoosableFileFilter(new MyCostumFilter());
    jFileChooser1.setAcceptAllFileFilterUsed(false);
}
int a = jFileChooser1.showOpenDialog(this);
if (a == JFileChooser.APPROVE_OPTION) {
    File file = jFileChooser1.getSelectedFile();
    txtNamaFile.setText(file.getAbsolutePath());
    getMetaData(file, file.getName());
}
}
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
if (txtPath.getText().isEmpty()) {
    JOptionPane.showMessageDialog(rootPane, "Pilih Lokasi Korelasi terlebih dahulu");
} else {
    if (rbSama.isSelected()) {
        perbandingan = 1;
    } else if (rbBesar.isSelected()) {
        perbandingan = 3;
    } else if (rbKecil.isSelected()) {
        perbandingan = 2;
    } else if (rbSamaBesar.isSelected()) {
        perbandingan = 5;
    } else if (rbBantara.isSelected()) {
        perbandingan = 6;
        try {
            sizeawal = Integer.parseInt(txtAntaraAwal.getText());
            sizeakhir = Integer.parseInt(txtAntaraAkhir.getText());
        } catch (Exception ex) {
            JOptionPane.showMessageDialog(null, "Input Size Awal atau Size akhir salah");
        }
    } else if (rbBantara2.isSelected()) {
        perbandingan = 7;
    } else {
        perbandingan = 4;
    }
    if(rbBantara.isSelected() && (txtAntaraAwal.getText().isEmpty() ||
txtAntaraAkhir.getText().isEmpty())){
        JOptionPane.showMessageDialog(null, "Isi Size awal dan atau size akhir terlebih dahulu");
    }else
        if (chkOwner.isSelected() && txtOwnerManual.getText().isEmpty()) {
            JOptionPane.showMessageDialog(null, "Inputkan Nama Terlebih Dahulu");
        } else if (cmbKorelasi.getSelectedIndex() == 2) {
            jTabbedPane2.setSelectedIndex(2);
            if (chkAuthor.isSelected()) {
                if (chkFiletype.isSelected()) {
                    if (chkOwner.isSelected()) {
                        getHasil(txtPath.getText(), tglauthorextensiownerFilter, true);
                        walk(txtPath.getText(), tglauthorextensiownerFilter);
                    } else {
                        getHasil(txtPath.getText(), tglauthorextensiFilter, true);
                        walk(txtPath.getText(), tglauthorextensiFilter);
                    }
                } else {
                    if (chkOwner.isSelected()) {
                        getHasil(txtPath.getText(), tglauthorownerFilter, true);
                        walk(txtPath.getText(), tglauthorownerFilter);
                    } else {
                        getHasil(txtPath.getText(), tglauthorFilter, true);
                        walk(txtPath.getText(), tglauthorFilter);
                    }
                }
            } else {
                if (chkFiletype.isSelected()) {
                    if (chkOwner.isSelected()) {
                        getHasil(txtPath.getText(), tglextensiownerFilter, true);
                    }
                }
            }
        }
    }
}

```

```

        walk(txtPath.getText(), tglextensiownerFilter);
    } else {
        getHasil(txtPath.getText(), tglextensiFilter, true);
        walk(txtPath.getText(), tglextensiFilter);
    }
} else {
    if (chkOwner.isSelected()) {
        getHasil(txtPath.getText(), tglownerFilter, true);
        walk(txtPath.getText(), tglownerFilter);
    } else {
        getHasil(txtPath.getText(), tglFilter, true);
        walk(txtPath.getText(), tglFilter);
    }
}
}
if(tabelHasil.getRowCount()<=0){
    JOptionPane.showMessageDialog(null, "Tidak ada file yang ditemukan");
}
} else if (cmbKorelasи.getSelectedIndex() == 4) {
    jTabbedPane2.setSelectedIndex(2);
    if (chkAuthor.isSelected()) {
        if (chkFiletype.isSelected()) {
            if (chkOwner.isSelected()) {
                getHasil(txtPath.getText(), sizeauthorextensiownerFilter, true);
                walk(txtPath.getText(), sizeauthorextensiownerFilter);
            } else {
                getHasil(txtPath.getText(), sizeauthorextensiFilter, true);
                walk(txtPath.getText(), sizeauthorextensiFilter);
            }
        } else {
            if (chkOwner.isSelected()) {
                getHasil(txtPath.getText(), sizeauthorownerFilter, true);
                walk(txtPath.getText(), sizeauthorownerFilter);
            } else {
                getHasil(txtPath.getText(), sizeauthorFilter, true);
                walk(txtPath.getText(), sizeauthorFilter);
            }
        }
    } else {
        if (chkFiletype.isSelected()) {
            if (chkOwner.isSelected()) {
                getHasil(txtPath.getText(), sizeextensiownerFilter, true);
                walk(txtPath.getText(), sizeextensiownerFilter);
            } else {
                getHasil(txtPath.getText(), sizeextensiFilter, true);
                walk(txtPath.getText(), sizeextensiFilter);
            }
        } else {
            if (chkOwner.isSelected()) {
                getHasil(txtPath.getText(), sizeownerFilter, true);
                walk(txtPath.getText(), sizeownerFilter);
            } else {
                getHasil(txtPath.getText(), sizeFilter, true);
                walk(txtPath.getText(), sizeFilter);
            }
        }
    }
}
if(tabelHasil.getRowCount()<=0){
    JOptionPane.showMessageDialog(null, "Tidak ada file yang ditemukan");
}
} else {
    jTabbedPane2.setSelectedIndex(2);
    if (chkAuthor.isSelected()) {
        if (chkFiletype.isSelected()) {
            if (chkOwner.isSelected()) {
                getHasil(txtPath.getText(), authorextensiowner, true);
                walk(txtPath.getText(), authorextensiowner);
            } else {
                getHasil(txtPath.getText(), authorextensi, true);
                walk(txtPath.getText(), authorextensi);
            }
        } else {
            if (chkOwner.isSelected()) {
                getHasil(txtPath.getText(), authorowner, true);
                walk(txtPath.getText(), authorowner);
            } else {
                getHasil(txtPath.getText(), author, true);
            }
        }
    }
}
}

```

```

                walk(txtPath.getText(), author);
            }
        } else {
            if (chkFiletype.isSelected()) {
                if (chkOwner.isSelected()) {
                    getHasil(txtPath.getText(), extensiowner, true);
                    walk(txtPath.getText(), extensiowner);
                } else {
                    getHasil(txtPath.getText(), extensi, true);
                    walk(txtPath.getText(), extensi);
                }
            } else {
                if (chkOwner.isSelected()) {
                    getHasil(txtPath.getText(), owner, true);
                    walk(txtPath.getText(), owner);
                } else {
                    jTabbedPane2.setSelectedIndex(1);
                    JOptionPane.showMessageDialog(rootPane, "Pilih Jenis Korelasi terlebih dahulu"
                        + "Pada ComboBox diatas");
                }
            }
        }
    }
    if (tblHasil.getRowCount() <= 0) {
        JOptionPane.showMessageDialog(null, "Tidak ada file yang ditemukan");
    }
}
}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    jFileChooser2 = new JFileChooser();
    jFileChooser2.setFileSelectionMode(JFileChooser.DIRECTORIES_ONLY);
    jFileChooser2.setAcceptAllFileFilterUsed(false);
    int a = jFileChooser2.showOpenDialog(this);
    if (a == JFileChooser.APPROVE_OPTION) {
        File file = jFileChooser2.getSelectedFile();
        txtPath.setText(file.getAbsolutePath());
    }
}

private void chkOwnerMouseClicked(java.awt.event.MouseEvent evt) {
    if (chkOwner.isSelected()) {
        txtOwnerManual.setEnabled(true);
    } else {
        txtOwnerManual.setEnabled(false);
    }
}

private void chkOwnerMouseReleased(java.awt.event.MouseEvent evt) {
    if (chkOwner.isSelected()) {
        txtOwnerManual.setEnabled(true);
    } else {
        txtOwnerManual.setEnabled(false);
    }
}

private void cmbKorelasiActionPerformed(java.awt.event.ActionEvent evt) {
    if (cmbKorelasi.getSelectedIndex() == 0) {
        disablekorelasi(false);
    } else {
        disablekorelasi(true);
        if (cmbKorelasi.getSelectedIndex() == 1) {
            txtKorelasi.setText(cmbKorelasi.getSelectedItem().toString() + ":" + " " + "+");
            tabelMeta.getModel().getValueAt(0, 2).toString());
            JPanel11.setVisible(false);
            JPanel12.setVisible(true);
        } else if (cmbKorelasi.getSelectedIndex() == 2) {
            txtKorelasi.setText(cmbKorelasi.getSelectedItem().toString() + ":" + " " + "+");
            tabelMeta.getModel().getValueAt(1, 2).toString());
            JPanel11.setVisible(false);
            JPanel12.setVisible(true);
        } else if (cmbKorelasi.getSelectedIndex() == 3) {
            txtKorelasi.setText(cmbKorelasi.getSelectedItem().toString() + ":" + " " + "+");
            tabelMeta.getModel().getValueAt(2, 2).toString());
            JPanel11.setVisible(false);
            JPanel12.setVisible(true);
        } else if (cmbKorelasi.getSelectedIndex() == 4) {
            txtKorelasi.setText(cmbKorelasi.getSelectedItem().toString() + ":" + " " + "+");
            tabelMeta.getModel().getValueAt(7, 2).toString());
        }
    }
}

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        jPanel11.setVisible(true);
        jPanel12.setVisible(false);
    }
}
}

private void rbantaraActionPerformed(java.awt.event.ActionEvent evt) {
}

private void chkAuthorActionPerformed(java.awt.event.ActionEvent evt) {
}

public static void main(String args[]) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Windows".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(Home.class.getName()).log(java.util.logging.Level.SEVERE
, null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(Home.class.getName()).log(java.util.logging.Level.SEVERE
, null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(Home.class.getName()).log(java.util.logging.Level.SEVERE
, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(Home.class.getName()).log(java.util.logging.Level.SEVERE
, null, ex);
    }
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new Home().setVisible(true);
        }
    });
}

private javax.swing.ButtonGroup buttonGroup1;
private javax.swing.JCheckBox chkAuthor;
private javax.swing.JCheckBox chkFiletype;
private javax.swing.JCheckBox chkOwner;
private javax.swing.JComboBox cmbKorelaasi;
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JFileChooser jFileChooser1;
private javax.swing.JFileChooser jFileChooser2;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel10;
private javax.swing.JLabel jLabel11;
private javax.swing.JLabel jLabel12;
private javax.swing.JLabel jLabel13;
private javax.swing.JLabel jLabel14;
private javax.swing.JLabel jLabel15;
private javax.swing.JLabel jLabel16;
private javax.swing.JLabel jLabel17;
private javax.swing.JLabel jLabel18;
private javax.swing.JLabel jLabel19;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JLabel jLabel8;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel10;
private javax.swing.JPanel jPanel11;
private javax.swing.JPanel jPanel12;
private javax.swing.JPanel jPanel13;
private javax.swing.JPanel jPanel14;
private javax.swing.JPanel jPanel15;
private javax.swing.JPanel jPanel16;
private javax.swing.JPanel jPanel17;
private javax.swing.JPanel jPanel18;
private javax.swing.JPanel jPanel19;
private javax.swing.JScrollPane jScrollPane1;

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private javax.swing.JScrollPane jScrollPane2;
private javax.swing.JScrollPane jScrollPane3;
private javax.swing.JTabbedPane jTabbedPane1;
private javax.swing.JTabbedPane jTabbedPane2;
private javax.swing.JRadioButton rbBesar;
private javax.swing.JRadioButton rbKecil;
private javax.swing.JRadioButton rbSama;
private javax.swing.JRadioButton rbSamaBesar;
private javax.swing.JRadioButton rbSamaKecil;
private javax.swing.JRadioButton rbantara;
private javax.swing.JRadioButton rbantara2;
private javax.swing.JTable tabelHasil;
private javax.swing.JTable tabelMeta;
private com.toedter.calendar.JDateChooser tglAnataraAkhir;
private com.toedter.calendar.JDateChooser tglAntaraAwal;
private javax.swing.JFormattedTextField txtAntaraAkhir;
private javax.swing.JFormattedTextField txtAntaraAwal;
private javax.swing.JTextField txtAuthors;
private javax.swing.JTextField txtComputer;
private javax.swing.JTextField txtKorelasi;
private javax.swing.JTextField txtLokasi;
private javax.swing.JTextField txtNamaFile;
private javax.swing.JTextField txtNamaFile2;
private javax.swing.JTextField txtOwner;
private javax.swing.JTextField txtOwnerManual;
private javax.swing.JTextField txtPath;
private javax.swing.JTextArea txtSUM;
private javax.swing.JTextField txtTypeFile;
String header[] = {"NO", "JENIS META", "VALUE"};
DefaultTableModel tModel = new DefaultTableModel(header, 0);
long size = 0, lastmodifie = 0, lastaccess = 0, creationtime = 0, sizeawal = 0, sizeakhir = 0,
      tglawal = 0, tglakhir = 0;
public void getMetaData(File f, String namafile) {
    tModel = new DefaultTableModel(header, 0);
    Path file = Paths.get(f.getAbsolutePath());
    try {
        FileInfo filein = new FileInfo(f);
        try {
            txtOwner.setText(filein.getOwner());
        } catch (ParseException ex) {
        }
        txtLokasi.setText(f.getPath());
        txtNamaFile2.setText(namafile);
        txtTypeFile.setText(getFileExtension(f));
        txtComputer.setText(getComputerName());
        FileOwnerAttributeView ownerAttributeView = Files.getFileAttributeView(f.toPath(),
FileOwnerAttributeView.class);
        UserPrincipal owner = ownerAttributeView.getOwner();
        txtAuthors.setText(owner.getName().substring(owner.getName().lastIndexOf("\\") + 1));
        String checksum = "MD5 :\n" + getChecksum(f.getPath(), "MD5")
                + "\nSHA-256 :\n" + getChecksum(f.getPath(), "SHA-256");
        txtSUM.setText(checksum);
        BasicFileAttributes attr = Files.readAttributes(file, BasicFileAttributes.class);
        String data1[] = {"1", "creationTime: ", attr.creationTime().toString()};
        tModel.addRow(data1);
        creationtime = attr.creationTime().toMillis();
        String data8[] = {"2", "lastAccessTime: ", attr.lastAccessTime().toString()};
        tModel.addRow(data8);
        lastaccess = attr.lastAccessTime().toMillis();
        String data2[] = {"3", "lastModifiedTime: ", attr.lastModifiedTime().toString()};
        tModel.addRow(data2);
        lastmodifie = attr.lastModifiedTime().toMillis();
        String data3[] = {"4", "isDirectory: ", String.valueOf(attr.isDirectory())};
        tModel.addRow(data3);
        String data4[] = {"5", "isOther: ", String.valueOf(attr.isOther())};
        tModel.addRow(data4);
        String data5[] = {"6", "isRegularFile: ", String.valueOf(attr.isRegularFile())};
        tModel.addRow(data5);
        String data6[] = {"7", "isSymbolicLink: ", String.valueOf(attr.isSymbolicLink())};
        tModel.addRow(data6);
        String data7[] = {"8", "size: ", String.valueOf(attr.size())};
        size = attr.size();
        tModel.addRow(data7);
    } catch (IOException ex) {
    }
    tabelMeta.setModel(tModel);
    AturLebarKolom alk = new AturLebarKolom(tabelMeta);
}

```

```

    alk.adjustColumns();
}
String headerHasil[] = {"NAME FILE", "SIZE", "DATE", "FOLDER PATH"};
DefaultTableModel tModelHasil = new DefaultTableModel(headerHasil, 0);
SimpleDateFormat sdf = new SimpleDateFormat("dd MMMM YYYY");
public void walk(String path, FileFilter dd) {
    File root = new File(path);
    File[] list = root.listFiles();
    if (list == null) {
        return;
    }
    for (File f : list) {
        if (f.isDirectory()) {
            walk(f.getAbsolutePath(), dd);
            getHasil(f.getAbsolutePath(), dd, false);
        }
    }
}
public void getHasil(String dirPath, FileFilter ff, boolean cek) {
    if (cek) {
        tModelHasil = new DefaultTableModel(headerHasil, 0);
    }
    File dir = new File(dirPath);
    File[] files = dir.listFiles(ff);
    try {
        for (File aFile : files) {
            String data[] = {aFile.getName(), String.valueOf(aFile.length()),
                sdf.format(new Date(aFile.lastModified())), aFile.getPath()};
            tModelHasil.addRow(data);
        }
    } catch (Exception ex) {
        System.out.println("Folder : " + dirPath + " Hasil = " + files);
    }
    tabelHasil.setModel(tModelHasil);
    AturLebarKolom alk = new AturLebarKolom(tabelHasil);
    alk.adjustColumns();
}
int perbandingan = 1;
FileFilter sizeFilter = new FileFilter() {
    public boolean accept(File file) {
        if (file.isFile()) {
            if (file.length() == size && perbandingan == 1) {
                return true;
            } else if (file.length() < size && perbandingan == 2) {
                return true;
            } else if (file.length() > size && perbandingan == 3) {
                return true;
            } else if (file.length() <= size && perbandingan == 4) {
                return true;
            } else if (file.length() >= size && perbandingan == 5) {
                return true;
            } else if ((file.length() >= sizeawal && file.length() <= sizeakhir) && perbandingan
== 6) {
                return true;
            } else {
                return false;
            }
        } else {
            return false;
        }
    }
};
FileFilter tglFilter = new FileFilter() {
    public boolean accept(File file) {
        if (file.isFile()) {
            if (file.lastModified() == lastmodifide && perbandingan == 1) {
                return true;
            } else if (file.lastModified() < lastmodifide && perbandingan == 2) {
                return true;
            } else if (file.lastModified() > lastmodifide && perbandingan == 3) {
                return true;
            } else if (file.lastModified() <= lastmodifide && perbandingan == 4) {
                return true;
            } else if (file.lastModified() >= lastmodifide && perbandingan == 5) {
                return true;
            } else if ((file.lastModified() >= tglawal && file.lastModified() <= tglakhir) &&
perbandingan == 7) {

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```

        return true;
    } else {
        return false;
    }
}

} else {
    return false;
}
}
};

FileFilter extensi = new FileFilter() {
@Override
public boolean accept(File file) {
    if (file.isFile()) {
        return getFileExtension(file).equalsIgnoreCase(txtTypeFile.getText().trim());
    } else {
        return false;
    }
}
};

FileFilter author = new FileFilter() {
public boolean accept(File file) {
    FileOwnerAttributeView ownerAttributeView = Files.getFileAttributeView(file.toPath(),
FileOwnerAttributeView.class);
    UserPrincipal owner = null;
    try {
        owner = ownerAttributeView.getOwner();
        String dd = owner.getName().substring(owner.getName().lastIndexOf("\\") + 1);
        if (file.isFile()) {
            if (dd.equalsIgnoreCase(txtAuthors.getText().trim())) {
                return true;
            } else {
                return false;
            }
        } else {
            return false;
        }
    } catch (IOException ex) {
        return false;
    }
}
};

FileFilter owner = new FileFilter() {
public boolean accept(File file) {
    FileOwnerAttributeView ownerAttributeView = Files.getFileAttributeView(file.toPath(),
FileOwnerAttributeView.class);
    UserPrincipal owner = null;
    try {
        owner = ownerAttributeView.getOwner();
        String dd = owner.getName().substring(owner.getName().lastIndexOf("\\") + 1);
        if (file.isFile()) {
            if (dd.equalsIgnoreCase(txtOwnerManual.getText().trim())) {
                return true;
            } else {
                return false;
            }
        } else {
            return false;
        }
    } catch (IOException ex) {
        return false;
    }
}
};

FileFilter sizeauthorFilter = new FileFilter() {
public boolean accept(File file) {
    FileOwnerAttributeView ownerAttributeView = Files.getFileAttributeView(file.toPath(),
FileOwnerAttributeView.class);
    UserPrincipal owner = null;
    try {
        owner = ownerAttributeView.getOwner();
        String dd = owner.getName().substring(owner.getName().lastIndexOf("\\") + 1);
        if (file.isFile()) {
            if (dd.equalsIgnoreCase(txtAuthors.getText().trim())) {
                if (file.length() == size & perbandingan == 1) {
                    return true;
                }
            }
        }
    }
}
};

```

```

        } else if (file.length() < size && perbandingan == 2) {
            return true;
        } else if (file.length() > size && perbandingan == 3) {
            return true;
        } else if (file.length() <= size && perbandingan == 4) {
            return true;
        } else if (file.length() >= size && perbandingan == 5) {
            return true;
        } else if ((file.length() >= sizeawal && file.length() <= sizeakhir) &&
perbandingan == 6) {
            return true;
        } else {
            return false;
        }
    } else {
        return false;
    }
}
} catch (IOException ex) {
    return false;
}
}
};

FileFilter sizeauthorextensiFilter = new FileFilter() {
public boolean accept(File file) {
    FileOwnerAttributeView ownerAttributeView = Files.getFileAttributeView(file.toPath(),
FileOwnerAttributeView.class);
    UserPrincipal owner = null;
    try {
        owner = ownerAttributeView.getOwner();
        String dd = owner.getName().substring(owner.getName().lastIndexOf("\\\\") + 1);
        if (file.isFile()) {
            if (dd.equalsIgnoreCase(txtAuthors.getText().trim())) {
                if (getFileExtension(file).equalsIgnoreCase(txtTypeFile.getText().trim())) {
                    if (file.length() == size && perbandingan == 1) {
                        return true;
                    } else if (file.length() < size && perbandingan == 2) {
                        return true;
                    } else if (file.length() > size && perbandingan == 3) {
                        return true;
                    } else if (file.length() <= size && perbandingan == 4) {
                        return true;
                    } else if (file.length() >= size && perbandingan == 5) {
                        return true;
                    } else if ((file.length() >= sizeawal && file.length() <= sizeakhir) &&
perbandingan == 6) {
                        return true;
                    } else {
                        return false;
                    }
                } else {
                    return false;
                }
            } else {
                return false;
            }
        } else {
            return false;
        }
    } else {
        return false;
    }
}
} catch (IOException ex) {
    return false;
}
}
};

FileFilter sizeauthorextensiownerFilter = new FileFilter() {
public boolean accept(File file) {
    FileOwnerAttributeView ownerAttributeView = Files.getFileAttributeView(file.toPath(),
FileOwnerAttributeView.class);
    UserPrincipal owner = null;
    try {
        owner = ownerAttributeView.getOwner();
        String dd = owner.getName().substring(owner.getName().lastIndexOf("\\\\") + 1);
        if (file.isFile()) {

```

```

        if (dd.equalsIgnoreCase(txtAuthors.getText().trim())) {
            if (getFileExtension(file).equalsIgnoreCase(txtTypeFile.getText().trim())) {
                if (dd.equalsIgnoreCase(txtOwnerManual.getText().trim())) {
                    if (file.length() == size && perbandingan == 1) {
                        return true;
                    } else if (file.length() < size && perbandingan == 2) {
                        return true;
                    } else if (file.length() > size && perbandingan == 3) {
                        return true;
                    } else if (file.length() <= size && perbandingan == 4) {
                        return true;
                    } else if (file.length() >= size && perbandingan == 5) {
                        return true;
                    } else if ((file.length() >= sizeawal && file.length() <= sizeakhir)
&& perbandingan == 6) {
                        return true;
                    } else {
                        return false;
                    }
                } else {
                    return false;
                }
            } else {
                return false;
            }
        } else {
            return false;
        }
    } else {
        return false;
    }
} catch (IOException ex) {
    return false;
}
}

};

FileFilter sizeauthorownerFilter = new FileFilter() {
public boolean accept(File file) {
    FileOwnerAttributeView ownerAttributeView = Files.getFileAttributeView(file.toPath(),
FileOwnerAttributeView.class);
    UserPrincipal owner = null;
    try {
        owner = ownerAttributeView.getOwner();
        String dd = owner.getName().substring(owner.getName().lastIndexOf("\\") + 1);
        if (file.isFile()) {
            if (dd.equalsIgnoreCase(txtAuthors.getText().trim())) {
                if (dd.equalsIgnoreCase(txtOwnerManual.getText().trim())) {
                    if (file.length() == size && perbandingan == 1) {
                        return true;
                    } else if (file.length() < size && perbandingan == 2) {
                        return true;
                    } else if (file.length() > size && perbandingan == 3) {
                        return true;
                    } else if (file.length() <= size && perbandingan == 4) {
                        return true;
                    } else if (file.length() >= size && perbandingan == 5) {
                        return true;
                    } else if ((file.length() >= sizeawal && file.length() <= sizeakhir) &&
perbandingan == 6) {
                        return true;
                    } else {
                        return false;
                    }
                } else {
                    return false;
                }
            } else {
                return false;
            }
        } catch (IOException ex) {
            return false;
        }
    }
}
}

```

```

        }
    };
FileFilter sizeextensiownerFilter = new FileFilter() {
    public boolean accept(File file) {
        FileOwnerAttributeView ownerAttributeView = Files.getFileAttributeView(file.toPath(),
        FileOwnerAttributeView.class);
        UserPrincipal owner = null;
        try {
            owner = ownerAttributeView.getOwner();
            String dd = owner.getName().substring(owner.getName().lastIndexOf("\\") + 1);
            if (file.isFile()) {
                if (getFileExtension(file).equalsIgnoreCase(txtTypeFile.getText().trim())) {
                    if (dd.equalsIgnoreCase(txtOwnerManual.getText().trim())) {
                        if (file.length() == size && perbandingan == 1) {
                            return true;
                        } else if (file.length() < size && perbandingan == 2) {
                            return true;
                        } else if (file.length() > size && perbandingan == 3) {
                            return true;
                        } else if (file.length() <= size && perbandingan == 4) {
                            return true;
                        } else if (file.length() >= size && perbandingan == 5) {
                            return true;
                        } else if ((file.length() >= sizeawal && file.length() <= sizeakhir) &&
perbandingan == 6) {
                            return true;
                        } else {
                            return false;
                        }
                    } else {
                        return false;
                    }
                } else {
                    return false;
                }
            } else {
                return false;
            }
        } catch (IOException ex) {
            return false;
        }
    }
};

FileFilter sizeextensiFilter = new FileFilter() {
    @Override
    public boolean accept(File file) {
        if (file.isFile()) {
            if (getFileExtension(file).equalsIgnoreCase(txtTypeFile.getText().trim())) {
                if (file.length() == size && perbandingan == 1) {
                    return true;
                } else if (file.length() < size && perbandingan == 2) {
                    return true;
                } else if (file.length() > size && perbandingan == 3) {
                    return true;
                } else if (file.length() <= size && perbandingan == 4) {
                    return true;
                } else if (file.length() >= size && perbandingan == 5) {
                    return true;
                } else if ((file.length() >= sizeawal && file.length() <= sizeakhir) &&
perbandingan == 6) {
                    return true;
                } else {
                    return false;
                }
            } else {
                return false;
            }
        } else {
            return false;
        }
    }
};

FileFilter sizeownerFilter = new FileFilter() {
    public boolean accept(File file) {

```

```

        FileOwnerAttributeView ownerAttributeView = Files.getFileAttributeView(file.toPath(),
FileOwnerAttributeView.class);
        UserPrincipal owner = null;
        try {
            owner = ownerAttributeView.getOwner();
            String dd = owner.getName().substring(owner.getName().lastIndexOf("\\") + 1);
            if (file.isFile()) {

                if (dd.equalsIgnoreCase(txtOwnerManual.getText().trim())) {
                    if (file.length() == size && perbandingan == 1) {
                        return true;
                    } else if (file.length() < size && perbandingan == 2) {
                        return true;
                    } else if (file.length() > size && perbandingan == 3) {
                        return true;
                    } else if (file.length() <= size && perbandingan == 4) {
                        return true;
                    } else if (file.length() >= size && perbandingan == 5) {
                        return true;
                    } else if ((file.length() >= sizeawal && file.length() <= sizeakhir) &&
perbandingan == 6) {
                        return true;
                    } else {
                        return false;
                    }
                } else {
                    return false;
                }
            } else {
                return false;
            }
        } catch (IOException ex) {
            return false;
        }
    }

};

FileFilter tglauthorFilter = new FileFilter() {
    public boolean accept(File file) {
        FileOwnerAttributeView ownerAttributeView = Files.getFileAttributeView(file.toPath(),
FileOwnerAttributeView.class);
        UserPrincipal owner = null;
        try {
            owner = ownerAttributeView.getOwner();
            String dd = owner.getName().substring(owner.getName().lastIndexOf("\\") + 1);
            if (file.isFile()) {
                if (dd.equalsIgnoreCase(txtAuthors.getText().trim())) {
                    if (file.lastModified() == lastmodifide && perbandingan == 1) {
                        return true;
                    } else if (file.lastModified() < lastmodifide && perbandingan == 2) {
                        return true;
                    } else if (file.lastModified() > lastmodifide && perbandingan == 3) {
                        return true;
                    } else if (file.lastModified() <= lastmodifide && perbandingan == 4) {
                        return true;
                    } else if (file.lastModified() >= lastmodifide && perbandingan == 5) {
                        return true;
                    } else if ((file.lastModified() >= tglawal && file.lastModified() <= tglakhir)
&& perbandingan == 7) {
                        return true;
                    } else {
                        return false;
                    }
                } else {
                    return false;
                }
            } else {
                return false;
            }
        } catch (IOException ex) {
            return false;
        }
    }

};

FileFilter tglauthorextensiFilter = new FileFilter() {

```

```

public boolean accept(File file) {
    FileOwnerAttributeView ownerAttributeView = Files.getFileAttributeView(file.toPath(),
FileOwnerAttributeView.class);
    UserPrincipal owner = null;
    try {
        owner = ownerAttributeView.getOwner();
        String dd = owner.getName().substring(owner.getName().lastIndexOf("\\") + 1);
        if (file.isFile()) {
            if (dd.equalsIgnoreCase(txtAuthors.getText().trim())) {
                if (getFileExtension(file).equalsIgnoreCase(txtTypeFile.getText().trim())) {
                    if (file.lastModified() == lastmodifide && perbandingan == 1) {
                        return true;
                    } else if (file.lastModified() < lastmodifide && perbandingan == 2) {
                        return true;
                    } else if (file.lastModified() > lastmodifide && perbandingan == 3) {
                        return true;
                    } else if (file.lastModified() <= lastmodifide && perbandingan == 4) {
                        return true;
                    } else if (file.lastModified() >= lastmodifide && perbandingan == 5) {
                        return true;
                    } else if ((file.lastModified() >= tglawal && file.lastModified() <=
tglakhir) && perbandingan == 7) {
                        return true;
                    } else {
                        return false;
                    }
                } else {
                    return false;
                }
            } else {
                return false;
            }
        } else {
            return false;
        }
    } else {
        return false;
    }
} catch (IOException ex) {
    return false;
}
}
};

FileFilter tglauthorextensiownerFilter = new FileFilter() {
public boolean accept(File file) {
    FileOwnerAttributeView ownerAttributeView = Files.getFileAttributeView(file.toPath(),
FileOwnerAttributeView.class);
    UserPrincipal owner = null;
    try {
        owner = ownerAttributeView.getOwner();
        String dd = owner.getName().substring(owner.getName().lastIndexOf("\\") + 1);
        if (file.isFile()) {
            if (dd.equalsIgnoreCase(txtAuthors.getText().trim())) {
                if (dd.equalsIgnoreCase(txtOwnerManual.getText().trim())) {
                    if (getFileExtension(file).equalsIgnoreCase(txtTypeFile.getText().trim())) {
                        if (file.lastModified() == lastmodifide && perbandingan == 1) {
                            return true;
                        } else if (file.lastModified() < lastmodifide && perbandingan == 2) {
                            return true;
                        } else if (file.lastModified() > lastmodifide && perbandingan == 3) {
                            return true;
                        } else if (file.lastModified() <= lastmodifide && perbandingan == 4) {
                            return true;
                        } else if (file.lastModified() >= lastmodifide && perbandingan == 5) {
                            return true;
                        } else if ((file.lastModified() >= tglawal && file.lastModified() <=
tglakhir) && perbandingan == 7) {
                            return true;
                        } else {
                            return false;
                        }
                    } else {
                        return false;
                    }
                } else {
                    return false;
                }
            } else {
                return false;
            }
        } else {
            return false;
        }
    } catch (IOException ex) {
        return false;
    }
}
};

```

```

        }
    } else {
        return false;
    }

} else {
    return false;
}
} catch (IOException ex) {
    return false;
}
}
};

FileFilter tglextensiownerFilter = new FileFilter() {
    public boolean accept(File file) {
        FileOwnerAttributeView ownerAttributeView = Files.getFileAttributeView(file.toPath(),
FileOwnerAttributeView.class);
        UserPrincipal owner = null;
        try {
            owner = ownerAttributeView.getOwner();
            String dd = owner.getName().substring(owner.getName().lastIndexOf("\\") + 1);
            if (file.isFile()) {

                if (dd.equalsIgnoreCase(txtOwnerManual.getText().trim())) {
                    if (getFileExtension(file).equalsIgnoreCase(txtTypeFile.getText().trim())) {
                        if (file.lastModified() == lastmodifide && perbandingan == 1) {
                            return true;
                        } else if (file.lastModified() < lastmodifide && perbandingan == 2) {
                            return true;
                        } else if (file.lastModified() > lastmodifide && perbandingan == 3) {
                            return true;
                        } else if (file.lastModified() <= lastmodifide && perbandingan == 4) {
                            return true;
                        } else if (file.lastModified() >= lastmodifide && perbandingan == 5) {
                            return true;
                        } else if ((file.lastModified() >= tglawal && file.lastModified() <=
tglakhir) && perbandingan == 7) {
                            return true;
                        } else {
                            return false;
                        }
                    } else {
                        return false;
                    }
                } else {
                    return false;
                }
            } else {
                return false;
            }
        } catch (IOException ex) {
            return false;
        }
    }
};

FileFilter tglauthorownerFilter = new FileFilter() {
    public boolean accept(File file) {
        FileOwnerAttributeView ownerAttributeView = Files.getFileAttributeView(file.toPath(),
FileOwnerAttributeView.class);
        UserPrincipal owner = null;
        try {
            owner = ownerAttributeView.getOwner();
            String dd = owner.getName().substring(owner.getName().lastIndexOf("\\") + 1);
            if (file.isFile()) {
                if (dd.equalsIgnoreCase(txtAuthors.getText().trim())) {
                    if (dd.equalsIgnoreCase(txtOwnerManual.getText().trim())) {
                        if (file.lastModified() == lastmodifide && perbandingan == 1) {
                            return true;
                        } else if (file.lastModified() < lastmodifide && perbandingan == 2) {
                            return true;
                        } else if (file.lastModified() > lastmodifide && perbandingan == 3) {
                            return true;
                        } else if (file.lastModified() <= lastmodifide && perbandingan == 4) {
                            return true;
                        } else if (file.lastModified() >= lastmodifide && perbandingan == 5) {
                            return true;
                        }
                    }
                }
            }
        } catch (IOException ex) {
            return false;
        }
    }
};

```

```

        return true;
    } else if ((file.lastModified() >= tglawal && file.lastModified() <=
tglakhir) && perbandingan == 7) {
        return true;
    } else {
        return false;
    }
} else {
    return false;
}
} else {
    return false;
}
}
} catch (IOException ex) {
    return false;
}
}
};

FileFilter tglownerFilter = new FileFilter() {
public boolean accept(File file) {
    FileOwnerAttributeView ownerAttributeView = Files.getFileAttributeView(file.toPath(),
FileOwnerAttributeView.class);
    UserPrincipal owner = null;
    try {
        owner = ownerAttributeView.getOwner();
        String dd = owner.getName().substring(owner.getName().lastIndexOf("\\") + 1);
        if (file.isFile()) {
            if (dd.equalsIgnoreCase(txtOwnerManual.getText().trim())) {
                if (file.lastModified() == lastmodifide && perbandingan == 1) {
                    return true;
                } else if (file.lastModified() < lastmodifide && perbandingan == 2) {
                    return true;
                } else if (file.lastModified() > lastmodifide && perbandingan == 3) {
                    return true;
                } else if (file.lastModified() <= lastmodifide && perbandingan == 4) {
                    return true;
                } else if (file.lastModified() >= lastmodifide && perbandingan == 5) {
                    return true;
                } else if ((file.lastModified() >= tglawal && file.lastModified() <= tglakhir)
&& perbandingan == 7) {
                    return true;
                } else {
                    return false;
                }
            } else {
                return false;
            }
        } else {
            return false;
        }
    } catch (IOException ex) {
        return false;
    }
}
};

FileFilter tglextensiFilter = new FileFilter() {
@Override
public boolean accept(File file) {
    if (file.isFile()) {
        if (getFileExtension(file).equalsIgnoreCase(txtTypeFile.getText().trim())) {
            if (file.lastModified() == lastmodifide && perbandingan == 1) {
                return true;
            } else if (file.lastModified() < lastmodifide && perbandingan == 2) {
                return true;
            } else if (file.lastModified() > lastmodifide && perbandingan == 3) {
                return true;
            } else if (file.lastModified() <= lastmodifide && perbandingan == 4) {
                return true;
            } else if (file.lastModified() >= lastmodifide && perbandingan == 5) {
                return true;
            } else if ((file.lastModified() >= tglawal && file.lastModified() <= tglakhir) &&
perbandingan == 7) {
                return true;
            }
        }
    }
}
};

```

```

        } else {
            return false;
        }
    } else {
        return false;
    }
} else {
    return false;
}
}
};

FileFilter authorextensi = new FileFilter() {
    @Override
    public boolean accept(File file) {
        FileOwnerAttributeView ownerAttributeView = Files.getFileAttributeView(file.toPath(),
        FileOwnerAttributeView.class);
        UserPrincipal owner = null;
        try {
            owner = ownerAttributeView.getOwner();
            String dd = owner.getName().substring(owner.getName().lastIndexOf("\\") + 1);
            if (file.isFile()) {
                if (dd.equalsIgnoreCase(txtAuthors.getText().trim())) {
                    return
getFileExtension(file).equalsIgnoreCase(txtTypeFile.getText().trim());
                } else {
                    return false;
                }
            } else {
                return false;
            }
        } catch (IOException ex) {
            return false;
        }
    }
};

FileFilter authorextensiowner = new FileFilter() {
    @Override
    public boolean accept(File file) {
        FileOwnerAttributeView ownerAttributeView = Files.getFileAttributeView(file.toPath(),
        FileOwnerAttributeView.class);
        UserPrincipal owner = null;
        try {
            owner = ownerAttributeView.getOwner();
            String dd = owner.getName().substring(owner.getName().lastIndexOf("\\") + 1);
            if (file.isFile()) {
                if (dd.equalsIgnoreCase(txtAuthors.getText().trim())) {
                    if (dd.equalsIgnoreCase(txtOwner.getText().trim())) {
                        return
getFileExtension(file).equalsIgnoreCase(txtTypeFile.getText().trim());
                    } else {
                        return false;
                    }
                } else {
                    return false;
                }
            } else {
                return false;
            }
        } catch (IOException ex) {
            return false;
        }
    }
};

FileFilter authorowner = new FileFilter() {

    @Override
    public boolean accept(File file) {
        FileOwnerAttributeView ownerAttributeView = Files.getFileAttributeView(file.toPath(),
        FileOwnerAttributeView.class);
        UserPrincipal owner = null;
        try {
            owner = ownerAttributeView.getOwner();
            String dd = owner.getName().substring(owner.getName().lastIndexOf("\\") + 1);
            if (file.isFile()) {
                if (dd.equalsIgnoreCase(txtAuthors.getText().trim())) {
                    if (dd.equalsIgnoreCase(txtOwner.getText().trim())) {
                        return true;
                    }
                }
            }
        }
    }
};

```

```

        } else {
            return false;
        }
    } else {
        return false;
    }
} catch (IOException ex) {
    return false;
}
}
};

FileFilter extensiowner = new FileFilter() {
@Override
public boolean accept(File file) {
    FileOwnerAttributeView ownerAttributeView = Files.getFileAttributeView(file.toPath(),
    FileOwnerAttributeView.class);
    UserPrincipal owner = null;
    try {
        owner = ownerAttributeView.getOwner();
        String dd = owner.getName().substring(owner.getName().lastIndexOf("\\") + 1);
        if (file.isFile()) {
            if (dd.equalsIgnoreCase(txtOwner.getText().trim())) {
                return
getFileExtension(file).equalsIgnoreCase(txtTypeFile.getText().trim());
            } else {
                return false;
            }
        } else {
            return false;
        }
    } catch (IOException ex) {
        return false;
    }
}
};

private String getFileExtension(File file) {
String name = file.getName();
try {
    return name.substring(name.lastIndexOf(".") + 1);
} catch (Exception e) {
    return "";
}
}

public byte[] createChecksum(String filename, String type) throws Exception {
InputStream fis = new FileInputStream(filename);
byte[] buffer = new byte[1024];
MessageDigest complete = MessageDigest.getInstance(type);
int numRead;
do {
    numRead = fis.read(buffer);
    if (numRead > 0) {
        complete.update(buffer, 0, numRead);
    }
} while (numRead != -1);

fis.close();
return complete.digest();
}

public String getChecksum(String filename, String type) {
String result = "";
byte[] b;
try {
    b = createChecksum(filename, type);
    for (int i = 0; i < b.length; i++) {
        result += Integer.toHexString((b[i] & 0xff) + 0x100, 16).substring(1);
    }
} catch (Exception ex) {
    JOptionPane.showMessageDialog(null, "GAGAL cek CheckSum");
}
return result;
}

private String getComputerName() {
Map<String, String> env = System.getenv();
if (env.containsKey("COMPUTERNAME")) {
}
}

```

```
        return env.get("COMPUTERNAME");
    } else if (env.containsKey("HOSTNAME")) {
        return env.get("HOSTNAME");
    } else {
        return "Unknown Computer";
    }
}
public void kosong() {
    txtAuthors.setText(null);
    txtComputer.setText(null);
    txtLokasi.setText(null);
    txtNamaFile2.setText(null);
    txtOwner.setText(null);
    txtPath.setText(null);
    txtSUM.setText(null);
    txtTypeFile.setText(null);
    txtAntaraAkhir.setText(null);
    txtAntaraAwal.setText(null);
    tModel = new DefaultTableModel(header, 0);
    tabelMeta.setModel(tModel);
    tModelHasil = new DefaultTableModel(headerHasil, 0);
    tabelHasil.setModel(tModelHasil);
}
private void disablekorelasi(boolean status) {
    txtKorelasi.setText("");
    txtKorelasi.setEnabled(status);
    rbSama.setEnabled(status);
    rbBesar.setEnabled(status);
    rbKecil.setEnabled(status);
    rbSamaBesar.setEnabled(status);
    rbSamaKecil.setEnabled(status);
    rbantara.setEnabled(status);
    rbantara2.setEnabled(status);
    txtAntaraAwal.setEnabled(status);
    txtAntaraAkhir.setEnabled(status);
    tglAnataraAkhir.setDate(new Date());
    tglAntaraAwal.setDate(new Date());
    rbSama.setSelected(status);
}
}
```