PROYEK APLIKASI DENGAN MENGGUNAKAN DATABASE "OTODRIVE"

LAPORAN PROJECT TUGAS AKHIR SEMESTER GENAP 2020/2021



Oleh:

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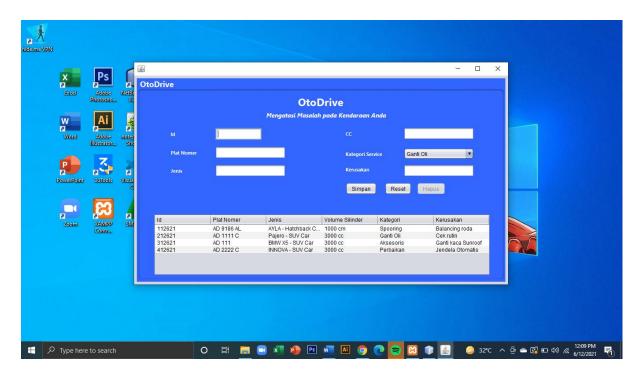
BIDANG MINAT D-III SISTEM INFORMASI PROGRAM STUDI TEKNOLOGI INFORMASI PROGRAM PENDIDIKAN VOKASI UNIVERSITAS BRAWIJAYA MALANG

2021

Penjelasan Mengenai Topik

Otodrive merupakan suatu bengkel kendaraan bermotor yang menggunakan sistem pencatatan pengunjung atau pengguna jasa menggunakan sistem komputer. Oleh sebab itu kebutuhan dasar yang harus dimiliki aplikasi adalah sebagai berikut :

- Aplikasi mampu tampil dengan baik
- Aplikasi mampu bekerja secara responsif
- Aplikasi mampu menyimpan dan menampilkan data layanan yang dipesan oleh pengunjung
- Aplikasi dapat mencatat jenis kendaraan, kategori pelayanan, dan mendata kerusakan
- Aplikasi bertujuan untuk menyimpan dan menampilkan rekap penjualan jasa dalam jangka waktu yang ditentukan



Source Code koneksi.php

```
package koneksi;
import java.sql.Connection;
import java.sql.DriverManager;
import javax.swing.JOptionPane;
public class koneksi {
                      Connection koneksi;
                      public static Connection koneksi(){
                      try {
                                             Class.forName("com.mysql.jdbc.Driver");
                                             Connection koneksi = DriverManager.getConnection("jdbc:mysql://localho
st/otodrive", "root", "");
                                             return koneksi;
                       } catch (Exception e){
                                              JOptionPane.showMessageDialog(null, e);
                                             return null;
                       }
 otodrive - NetBeans IDE 8,2 RC
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                                                                                                 public static Connection koneksi(){
                                                                                                  public static Connection Koneksi() {
   try {
      Class.forName("com.mysql.jdbc.Driver");
      Connection koneksi = DriverManager.getConnection("jdbc:mysql://localhost/otodrive", "root", "");
   return Koneksi;
} catch (Exception e) {
      JOptionFame.showMessageDialog(null, e);
      return null;
}
                   koneksi
                                 koneksi java
              Test Packages

Test Packages

MySQL JDBC Driver - m

JDK 1.8 (Default)

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package form;
import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
public class Otodrive extends javax.swing.JFrame {
    public Statement st;
    public ResultSet rs;
    public DefaultTableModel tabModel;
    Connection cn = koneksi.koneksi();
    public Otodrive() {
        initComponents();
        judul();
        tampilData("");
  btnHapus.setEnabled(false);
    public void reset(){
        inputId.setText("");
        inputPlat.setText("");
        inputJenis.setText("");
        inputVolume.setText("");
        inputKategori.setSelectedItem("");
        inputKerusakan.setText("");
    public void judul() {
 Object[] judul = {
    "Id", "Plat Nomer", "Jenis", "Volume Silinder", "Kategori", "Kerusakan"
  };
  tabModel = new DefaultTableModel(null, judul);
  tabelBengkel.setModel(tabModel);
public void tampilData(String where) {
 try {
   st = cn.createStatement();
    tabModel.getDataVector().removeAllElements();
    tabModel.fireTableDataChanged();
    rs = st.executeQuery("SELECT * FROM pengunjung " + where);
   while (rs.next()) {
      Object[] data = {
        rs.getString("id"),
        rs.getString("plat"),
```

```
rs.getString("jenis"),
        rs.getString("volume"),
        rs.getString("kategori"),
        rs.getString("kerusakan")
      };
        tabModel.addRow(data);
  } catch(Exception e) {
    e.printStackTrace();
     * This method is called from within the constructor to initialize the for
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
    @SuppressWarnings("unchecked")
fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {
        jLabel9 = new javax.swing.JLabel();
        jPanel1 = new javax.swing.JPanel();
        inputId = new javax.swing.JTextField();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        inputPlat = new javax.swing.JTextField();
        jLabel3 = new javax.swing.JLabel();
        inputJenis = new javax.swing.JTextField();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        inputVolume = new javax.swing.JTextField();
        inputKerusakan = new javax.swing.JTextField();
        jScrollPane1 = new javax.swing.JScrollPane();
        tabelBengkel = new javax.swing.JTable();
        inputKategori = new javax.swing.JComboBox<>();
        btnSimpan = new javax.swing.JButton();
        btnHapus = new javax.swing.JButton();
        btnReset = new javax.swing.JButton();
        jLabel7 = new javax.swing.JLabel();
        jLabel8 = new javax.swing.JLabel();
        jLabel9.setText("jLabel9");
```

```
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        jPanel1.setBackground(new java.awt.Color(51, 102, 255));
        jPanel1.setBorder(javax.swing.BorderFactory.createTitledBorder(null, "
OtoDrive", javax.swing.border.TitledBorder.DEFAULT JUSTIFICATION, javax.swing.
border.TitledBorder.DEFAULT_POSITION, new java.awt.Font("Segoe UI", 1, 18), ne
w java.awt.Color(255, 255, 255))); // NOI18N
        inputId.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                inputIdActionPerformed(evt);
        });
        jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 11)); // NOI18N
        jLabel1.setForeground(new java.awt.Color(255, 255, 255));
        jLabel1.setText("Id");
        jLabel2.setFont(new java.awt.Font("Segoe UI", 1, 11)); // NOI18N
        jLabel2.setForeground(new java.awt.Color(255, 255, 255));
        jLabel2.setText("Plat Nomer");
        jLabel3.setFont(new java.awt.Font("Segoe UI", 1, 11)); // NOI18N
        jLabel3.setForeground(new java.awt.Color(255, 255, 255));
        jLabel3.setText("Jenis");
        inputJenis.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                inputJenisActionPerformed(evt);
        });
        jLabel4.setFont(new java.awt.Font("Segoe UI", 1, 11)); // NOI18N
        jLabel4.setForeground(new java.awt.Color(255, 255, 255));
        jLabel4.setText("CC");
        jLabel5.setFont(new java.awt.Font("Segoe UI", 1, 11)); // NOI18N
        jLabel5.setForeground(new java.awt.Color(255, 255, 255));
        jLabel5.setText("Kategori Service");
        jLabel6.setFont(new java.awt.Font("Segoe UI", 1, 11)); // NOI18N
        jLabel6.setForeground(new java.awt.Color(255, 255, 255));
        jLabel6.setText("Kerusakan");
        tabelBengkel.setModel(new javax.swing.table.DefaultTableModel(
            new Object [][] {
                {null, null, null, null, null, null},
                {null, null, null, null, null, null},
```

```
{null, null, null, null, null, null},
                {null, null, null, null, null, null}
            },
            new String [] {
                "Id", "Plat Nomer", "Jenis", "Volume Silinder", "Kategori Serv
ice", "Kerusakan"
            }
        ));
        tabelBengkel.addMouseListener(new java.awt.event.MouseAdapter() {
            public void mouseClicked(java.awt.event.MouseEvent evt) {
                tabelBengkelMouseClicked(evt);
        });
        jScrollPane1.setViewportView(tabelBengkel);
        inputKategori.setModel(new javax.swing.DefaultComboBoxModel<>(new Stri
ng[] { "Ganti Oli", "Perbaikan", "Spooring", "Tune Up", "Aksesoris", " " }));
        inputKategori.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                inputKategoriActionPerformed(evt);
            }
        });
        btnSimpan.setText("Simpan");
        btnSimpan.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                btnSimpanActionPerformed(evt);
        });
        btnHapus.setText("Hapus");
        btnHapus.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                btnHapusActionPerformed(evt);
        });
        btnReset.setText("Reset");
        btnReset.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                btnResetActionPerformed(evt);
        });
        jLabel7.setFont(new java.awt.Font("Segoe UI", 3, 14)); // NOI18N
```

```
jLabel7.setForeground(new java.awt.Color(255, 255, 255));
        jLabel7.setText("Mengatasi Masalah pada Kendaraan Anda");
        jLabel8.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N
        jLabel8.setForeground(new java.awt.Color(255, 255, 255));
        jLabel8.setText("OtoDrive");
        javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jP
anel1);
        jPanel1.setLayout(jPanel1Layout);
        jPanel1Layout.setHorizontalGroup(
            ¡Panel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignmen
t.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(63, 63, 63)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupL
ayout.Alignment.LEADING)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(0, 0, Short.MAX_VALUE)
                        .addComponent(btnSimpan))
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGroup(jPanel1Layout.createParallelGroup(javax.swin
g.GroupLayout.Alignment.LEADING)
                            .addComponent(jLabel2)
                            .addComponent(jLabel3)
                            .addComponent(jLabel1))
                        .addGap(42, 42, 42)
                        .addGroup(jPanel1Layout.createParallelGroup(javax.swin
g.GroupLayout.Alignment.LEADING)
                            .addComponent(inputId, javax.swing.GroupLayout.PRE
FERRED_SIZE, 106, javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(inputJenis, javax.swing.GroupLayout.
PREFERRED_SIZE, 160, javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(inputPlat, javax.swing.GroupLayout.P
REFERRED_SIZE, 160, javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addGap(0, 0, Short.MAX_VALUE)))
                .addGap(18, 18, 18)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupL
ayout.Alignment.LEADING)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addComponent(btnUpdate)
                        .addGap(18, 18, 18)
                        .addComponent(btnReset)
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlac
ement.UNRELATED)
                        .addComponent(btnHapus))
                    .addGroup(jPanel1Layout.createSequentialGroup()
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swin
g.GroupLayout.Alignment.LEADING)
                            .addComponent(jLabel6)
                            .addComponent(jLabel5)
                            .addComponent(jLabel4))
                         .addGap(49, 49, 49)
                        .addGroup(jPanel1Layout.createParallelGroup(javax.swin
g.GroupLayout.Alignment.LEADING)
                            .addComponent(inputKategori, javax.swing.GroupLayo
ut.PREFERRED_SIZE, 160, javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(inputKerusakan, javax.swing.GroupLay
out.PREFERRED SIZE, 160, javax.swing.GroupLayout.PREFERRED SIZE)
                            .addComponent(inputVolume, javax.swing.GroupLayout
.PREFERRED_SIZE, 160, javax.swing.GroupLayout.PREFERRED_SIZE))))
                .addGap(57, 57, 57))
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layou
t.createSequentialGroup()
                .addContainerGap(24, Short.MAX_VALUE)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupL
ayout.Alignment.LEADING)
                    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPan
el1Layout.createSequentialGroup()
                         .addComponent(jScrollPane1, javax.swing.GroupLayout.PR
EFERRED_SIZE, 765, javax.swing.GroupLayout.PREFERRED_SIZE)
                         .addGap(20, 20, 20))
                    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPan
el1Layout.createSequentialGroup()
                         .addComponent(jLabel7)
                        .addGap(257, 257, 257))))
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(352, 352, 352)
                .addComponent(jLabel8)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.M
AX_VALUE))
        ¡Panel1Layout.setVerticalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignmen
t.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addComponent(jLabel8)
                .addGap(4, 4, 4)
                .addComponent(jLabel7)
                .addGap(18, 18, 18)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupL
ayout.Alignment.TRAILING)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                         .addGroup(jPanel1Layout.createParallelGroup(javax.swin
g.GroupLayout.Alignment.BASELINE)
```

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.addComponent(inputId, javax.swing.GroupLayout.PRE
FERRED SIZE, javax.swing.GroupLayout.DEFAULT SIZE, javax.swing.GroupLayout.PRE
FERRED SIZE)
                            .addComponent(jLabel1))
                        .addGap(14, 14, 14)
                        .addGroup(jPanel1Layout.createParallelGroup(javax.swin
g.GroupLayout.Alignment.BASELINE)
                            .addComponent(jLabel2)
                            .addComponent(inputPlat, javax.swing.GroupLayout.P
REFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.P
REFERRED_SIZE))
                        .addGap(13, 13, 13)
                        .addGroup(jPanel1Layout.createParallelGroup(javax.swin
g.GroupLayout.Alignment.BASELINE)
                            .addComponent(inputJenis, javax.swing.GroupLayout.
PREFERRED SIZE, javax.swing.GroupLayout.DEFAULT SIZE, javax.swing.GroupLayout.
PREFERRED SIZE)
                            .addComponent(jLabel3)))
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGroup(jPanel1Layout.createParallelGroup(javax.swin
g.GroupLayout.Alignment.BASELINE)
                            .addComponent(jLabel4)
                            .addComponent(inputVolume, javax.swing.GroupLayout
.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout
.PREFERRED SIZE))
                        .addGap(19, 19, 19)
                        .addGroup(jPanel1Layout.createParallelGroup(javax.swin
g.GroupLayout.Alignment.BASELINE)
                            .addComponent(inputKategori, javax.swing.GroupLayo
ut.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayo
ut.PREFERRED_SIZE)
                            .addComponent(jLabel5))
                        .addGap(2, 2, 2)
                        .addGroup(jPanel1Layout.createParallelGroup(javax.swin
g.GroupLayout.Alignment.LEADING)
                            .addGroup(jPanel1Layout.createSequentialGroup()
                                .addGap(13, 13, 13)
                                .addComponent(jLabel6))
                            .addGroup(jPanel1Layout.createSequentialGroup()
                                .addGap(9, 9, 9)
                                .addComponent(inputKerusakan, javax.swing.Grou
pLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.Grou
pLayout.PREFERRED SIZE)))))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RE
LATED, 13, Short.MAX VALUE)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupL
ayout.Alignment.BASELINE)
                    .addComponent(btnSimpan)
```

```
.addComponent(btnUpdate)
                    .addComponent(btnReset)
                    .addComponent(btnHapus))
                .addGap(43, 43, 43)
                .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED
SIZE, 140, javax.swing.GroupLayout.PREFERRED SIZE))
        );
        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getConten
tPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, j
avax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addContainerGap())
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, j
avax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addContainerGap())
        );
        pack();
    }// </editor-fold>
    private void inputIdActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    private void inputKategoriActionPerformed(java.awt.event.ActionEvent evt)
        // TODO add your handling code here:
    private void btnSimpanActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        try {
    st = cn.createStatement();
```

```
st.executeUpdate("INSERT INTO pengunjung VALUES('" + inputId.getText() +
        + inputPlat.getText() + "','"
        + inputJenis.getText() + "',
        + inputVolume.getText() + "','"
        + inputKategori.getSelectedItem() + "','"
        + inputKerusakan.getText() + "')");
    tampilData("");
    JOptionPane.showMessageDialog(null, "Simpan Berhasil");
    inputId.setText("");
    inputPlat.setText("");
    inputJenis.setText("");
    inputVolume.setText("");
    inputKategori.setSelectedItem("");
    inputKerusakan.setText("");
  } catch (Exception e) {
    e.printStackTrace();
    private void tabelBengkelMouseClicked(java.awt.event.MouseEvent evt) {
        // TODO add your handling code here:
        inputId.setText(tabelBengkel.getValueAt(tabelBengkel.getSelectedRow(),
 0).toString());
        inputPlat.setText(tabelBengkel.getValueAt(tabelBengkel.getSelectedRow(
), 1).toString());
        inputJenis.setText(tabelBengkel.getValueAt(tabelBengkel.getSelectedRow
(), 2).toString());
        inputVolume.setText(tabelBengkel.getValueAt(tabelBengkel.getSelectedRo
w(), 3).toString());
        inputKategori.setSelectedItem(tabelBengkel.getValueAt(tabelBengkel.get
SelectedRow(), 4).toString());
        inputKerusakan.setText(tabelBengkel.getValueAt(tabelBengkel.getSelecte
dRow(), 5).toString());
        btnSimpan.setEnabled(false);
        btnUpdate.setEnabled(true);
        btnHapus.setEnabled(true);
    private void btnResetActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        reset();
    private void btnHapusActionPerformed(java.awt.event.ActionEvent evt) {
```

```
// TODO add your handling code here:
        try {
    int jawab;
    if ((jawab = JOptionPane.showConfirmDialog(null, "Ingin menghapus data?",
'konfirmasi", JOptionPane.YES_NO_OPTION)) == 0) {
      st = cn.createStatement();
      st.executeUpdate("DELETE FROM pengunjung WHERE nis='"
          + tabModel.getValueAt(tabelBengkel.getSelectedRow(), 0) + "'");
      tampilData("");
      reset();
  } catch (Exception e) {
    e.printStackTrace();
    }
    private void inputJenisActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
     * @param args the command line arguments
    public static void main(String args[]) {
fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with the
 default look and feel.
         * For details see http://download.oracle.com/javase/tutorial/uiswing/
lookandfeel/plaf.html
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIMa
nager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
        } catch (ClassNotFoundException ex) {
            java.util.logging.Logger.getLogger(Otodrive.class.getName()).log(j
ava.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {
            java.util.logging.Logger.getLogger(Otodrive.class.getName()).log(j
ava.util.logging.Level.SEVERE, null, ex);
```

```
} catch (IllegalAccessException ex) {
            java.util.logging.Logger.getLogger(Otodrive.class.getName()).log(j
ava.util.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
            java.util.logging.Logger.getLogger(Otodrive.class.getName()).log(j
ava.util.logging.Level.SEVERE, null, ex);
        //</editor-fold>
        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new Otodrive().setVisible(true);
        });
    // Variables declaration - do not modify
    private javax.swing.JButton btnHapus;
    private javax.swing.JButton btnReset;
    private javax.swing.JButton btnSimpan;
    private javax.swing.JTextField inputId;
    private javax.swing.JTextField inputJenis;
    private javax.swing.JComboBox<String> inputKategori;
    private javax.swing.JTextField inputKerusakan;
    private javax.swing.JTextField inputPlat;
    private javax.swing.JTextField inputVolume;
    private javax.swing.JLabel jLabel1;
    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.JLabel jLabel9;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JTable tabelBengkel;
    // End of variables declaration
```

