Dokumentasi Praktikum PBO 12A

Mata Kuliah   :   PBO - TI - S1
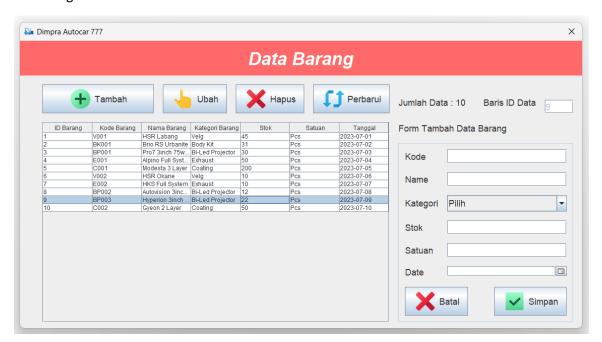
Pertemuan   :   12A

NIM   :   A11.2021.13254

Nama   :   Yohanes Dimas Pratama

Program Data Barang

Hasil Program:

Code Program:

*Form_Barang.java

package inventori_barang;

import java.awt.Color;

import java.sql.Connection;

import java.sql.PreparedStatement;

import java.sql.SQLException;

import java.text.SimpleDateFormat;

import java.util.logging.Level;

```java
import java.util.logging.Logger;

import javax.swing.JOptionPane;

import javax.swing.table.DefaultTableModel;

import javax.swing.table.JTableHeader;

import net.proteanit.sql.DbUtils;


public class Form_Barang extends javax.swing.JDialog {


    inventori_barang.Connection_DB konek = new inventori_barang.Connection_DB();


    public Form_Barang(java.awt.Frame parent, boolean modal) {
        super(parent, modal);
        initComponents();
        SelectKategori();
        txttemp_kode.hide();
        txtid_kategori.hide();
        GetData();
        BtnEnabled(false);
        btnsave.setText("Simpan");
    }


    private void SelectKategori() {
        try {
            Connection conn = konek.openkoneksi();
            java.sql.Statement stm = conn.createStatement();
            java.sql.ResultSet rs = stm.executeQuery("SELECT * FROM tmkategori");


            cmbid_kategori.addItem("Pilih");
            while (rs.next()) {
                cmbid_kategori.addItem(rs.getString("nama"));
            }
```

```java
            konek.closekoneksi();

        } catch (SQLException e) {

            JOptionPane.showMessageDialog(null, "Error " + e);

        } catch (ClassNotFoundException ex) {

            Logger.getLogger(Form_Barang.class.getName()).log(Level.SEVERE, null, ex);

        }

    }


    private void TxtEmpty() {

        txtid.setText("");

        txtkode.setText("");

        txtnama.setText("");

        txtsatuan.setText("");

        txtstok.setText("");

        txtid_kategori.setText("");

        txttemp_kode.setText("");

        cmbid_kategori.setSelectedItem("Pilih");

        txt_tanggal.setDate(null);


    }


    private void BtnEnabled(boolean x) {

        btnedit.setEnabled(x);

        btndelete.setEnabled(x);

    }


    private void GetData() {

        try {

            Connection conn = konek.openkoneksi();

            java.sql.Statement stm = conn.createStatement();
```

```java
        java.sql.ResultSet sql = stm.executeQuery("SELECT tmbarang.id, tmbarang.kode,
tmbarang.nama, tmkategori.nama as kategori, tmbarang.stok, tmbarang.satuan, tmbarang.tanggal
FROM tmbarang JOIN tmkategori ON tmkategori.id = tmbarang.id_kategori");

        DefaultTableModel model = (DefaultTableModel) DbUtils.resultSetToTableModel(sql);

        datatable.setModel(model);

        datatable.getColumnModel().getColumn(0).setPreferredWidth(7);

        datatable.getColumnModel().getColumn(1).setPreferredWidth(20);

        datatable.getColumnModel().getColumn(2).setPreferredWidth(90);

        datatable.getColumnModel().getColumn(3).setPreferredWidth(60);

        datatable.getColumnModel().getColumn(4).setPreferredWidth(40);

        datatable.getColumnModel().getColumn(5).setPreferredWidth(25);

        datatable.getColumnModel().getColumn(6).setPreferredWidth(40);

        JTableHeader header = datatable.getTableHeader();

        String[] columnNames = {"ID Barang", "Kode Barang", "Nama Barang", "Kategori Barang",
"Stok", "Satuan", "Tanggal"};

        header.setReorderingAllowed(false);

        model.setColumnIdentifiers(columnNames);

        String count_rows = String.valueOf(model.getRowCount());

        lblcount_rows.setText("Jumlah Data : " + count_rows);
    } catch (SQLException e) {

        JOptionPane.showMessageDialog(null, "Error " + e);

    } catch (ClassNotFoundException ex) {

        Logger.getLogger(Form_Barang.class.getName()).log(Level.SEVERE, null, ex);

    }
  }


  private void GetData_View() {

    int row = datatable.getSelectedRow();
```

```java
    String row_id = (datatable.getModel().getValueAt(row, 0).toString());

    txtid.setText(row_id);

    BtnEnabled(true);

  }


  @SuppressWarnings("unchecked")
  // <editor-fold defaultstate="collapsed" desc="Generated Code">
  private void initComponents() {


    btnedit = new javax.swing.JButton();
    panel = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    btnsave = new javax.swing.JButton();
    jLabel2 = new javax.swing.JLabel();
    txtkode = new javax.swing.JTextField();
    jLabel4 = new javax.swing.JLabel();
    txtnama = new javax.swing.JTextField();
    jLabel6 = new javax.swing.JLabel();
    btncancel = new javax.swing.JButton();
    jLabel3 = new javax.swing.JLabel();
    txtstok = new javax.swing.JTextField();
    cmbid_kategori = new javax.swing.JComboBox<>();
    txtsatuan = new javax.swing.JTextField();
    txt_tanggal = new com.toedter.calendar.JDateChooser();
    jLabel9 = new javax.swing.JLabel();
    txttemp_kode = new javax.swing.JTextField();
    jScrollPane1 = new javax.swing.JScrollPane();
    datatable = new javax.swing.JTable(){
      public boolean isCellEditable(int rowIndex, int colIndex) {
        return false;
      }
```

```java
    };
    jLabel5 = new javax.swing.JLabel();

    jScrollPane2 = new javax.swing.JScrollPane();

    txtid = new javax.swing.JTextPane();

    lbl_action = new javax.swing.JLabel();

    jLabel7 = new javax.swing.JLabel();

    btnadd = new javax.swing.JButton();

    btndelete = new javax.swing.JButton();

    jPanel1 = new javax.swing.JPanel();

    jLabel8 = new javax.swing.JLabel();

    lblcount_rows = new javax.swing.JLabel();

    jButton1 = new javax.swing.JButton();

    txtid_kategori = new javax.swing.JTextField();


    setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);

    setTitle("Dimpra Autocar 777");


    btnedit.setFont(new java.awt.Font("Dialog", 0, 18)); // NOI18N

    btnedit.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/inventori_barang/img/edit.png"))); // NOI18N

    btnedit.setText("Ubah");

    btnedit.addActionListener(new java.awt.event.ActionListener() {

        public void actionPerformed(java.awt.event.ActionEvent evt) {

            btneditActionPerformed(evt);

        }

    });


    panel.setBorder(javax.swing.BorderFactory.createTitledBorder(""));

    panel.setForeground(new java.awt.Color(245, 245, 245));

    panel.setEnabled(false);
```

```java
jLabel1.setFont(new java.awt.Font("Dialog", 0, 18)); // NOI18N

jLabel1.setLabelFor(txtkode);

jLabel1.setText("Kode");


btnsave.setFont(new java.awt.Font("Dialog", 0, 18)); // NOI18N

btnsave.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/inventori_barang/img/save.png"))); // NOI18N

btnsave.setText("Simpan");

btnsave.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        btnsaveActionPerformed(evt);

    }

});


jLabel2.setFont(new java.awt.Font("Dialog", 0, 18)); // NOI18N

jLabel2.setLabelFor(txtnama);

jLabel2.setText("Name");


txtkode.setFont(new java.awt.Font("Dialog", 0, 18)); // NOI18N

txtkode.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        txtkodeActionPerformed(evt);

    }

});


jLabel4.setFont(new java.awt.Font("Dialog", 0, 18)); // NOI18N

jLabel4.setLabelFor(txtsatuan);

jLabel4.setText("Kategori");


txtnama.setFont(new java.awt.Font("Dialog", 0, 18)); // NOI18N

txtnama.setAutoscrolls(false);
```

```java
txtnama.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtnamaActionPerformed(evt);
    }
});
txtnama.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyTyped(java.awt.event.KeyEvent evt) {
        txtnamaKeyTyped(evt);
    }
});


jLabel6.setFont(new java.awt.Font("Dialog", 0, 18)); // NOI18N
jLabel6.setText("Satuan");
jLabel6.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyTyped(java.awt.event.KeyEvent evt) {
        jLabel6KeyTyped(evt);
    }
});


btncancel.setFont(new java.awt.Font("Dialog", 0, 18)); // NOI18N
btncancel.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/inventori_barang/img/delete.png"))); // NOI18N
btncancel.setText("Batal");
btncancel.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btncancelActionPerformed(evt);
    }
});


jLabel3.setFont(new java.awt.Font("Dialog", 0, 18)); // NOI18N
jLabel3.setText("Stok");
```

```java
txtstok.setFont(new java.awt.Font("Dialog", 0, 18)); // NOI18N

txtstok.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        txtstokActionPerformed(evt);

    }

});

txtstok.addKeyListener(new java.awt.event.KeyAdapter() {

    public void keyTyped(java.awt.event.KeyEvent evt) {

        txtstokKeyTyped(evt);

    }

});


cmbid_kategori.setFont(new java.awt.Font("Dialog", 0, 18)); // NOI18N

cmbid_kategori.addItemListener(new java.awt.event.ItemListener() {

    public void itemStateChanged(java.awt.event.ItemEvent evt) {

        cmbid_kategoriItemStateChanged(evt);

    }

});


txtsatuan.setFont(new java.awt.Font("Dialog", 0, 18)); // NOI18N


jLabel9.setFont(new java.awt.Font("Dialog", 0, 18)); // NOI18N

jLabel9.setText("Date");

jLabel9.addKeyListener(new java.awt.event.KeyAdapter() {

    public void keyTyped(java.awt.event.KeyEvent evt) {

        jLabel9KeyTyped(evt);

    }

});


javax.swing.GroupLayout panelLayout = new javax.swing.GroupLayout(panel);
```

```java
panel.setLayout(panelLayout);
panelLayout.setHorizontalGroup(
    panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(panelLayout.createSequentialGroup()
        .addContainerGap()
        .addGroup(panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(panelLayout.createSequentialGroup()
                .addComponent(btncancel)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(btnsave))
            .addGroup(panelLayout.createSequentialGroup()

.addGroup(panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                .addComponent(jLabel4, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jLabel2, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jLabel6, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                .addComponent(jLabel9))
            .addGap(18, 18, 18)

.addGroup(panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(cmbid_kategori, 0, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(txtnama)
                .addComponent(txtstok)
```

```
                    .addComponent(txtsatuan, javax.swing.GroupLayout.Alignment.TRAILING)

                    .addComponent(txt_tanggal, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

                    .addComponent(txtkode))))

            .addContainerGap())

    );

    panelLayout.setVerticalGroup(

      panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

      .addGroup(panelLayout.createSequentialGroup()

        .addContainerGap()

        .addGroup(panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

          .addComponent(txtkode, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

          .addComponent(jLabel1))

        .addGap(18, 18, 18)

        .addGroup(panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

          .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 22,
javax.swing.GroupLayout.PREFERRED_SIZE)

          .addComponent(txtnama, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(18, 18, 18)

        .addGroup(panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

          .addComponent(jLabel4)

          .addComponent(cmbid_kategori, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(18, 18, 18)

        .addGroup(panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

          .addComponent(jLabel3)

          .addComponent(txtstok, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(18, 18, 18)

        .addGroup(panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

          .addComponent(jLabel6)
```

```java
        .addComponent(txtsatuan, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(18, 18, 18)

        .addGroup(panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

          .addComponent(txt_tanggal, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

          .addComponent(jLabel9))

        .addGap(18, 18, 18)

        .addGroup(panelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

          .addComponent(btnsave)

          .addComponent(btncancel))

        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );


    txtsatuan.getAccessibleContext().setAccessibleDescription("");


    txttemp_kode.setFont(new java.awt.Font("Dialog", 0, 18)); // NOI18N


    datatable.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},
        {null, null, null, null, null, null},
        {null, null, null, null, null, null},
        {null, null, null, null, null, null},
        {null, null, null, null, null, null},
        {null, null, null, null, null, null},
        {null, null, null, null, null, null},
        {null, null, null, null, null, null},
```

```java
            {null, null, null, null, null, null},

            {null, null, null, null, null, null},

            {null, null, null, null, null, null},

            {null, null, null, null, null, null},

            {null, null, null, null, null, null},

            {null, null, null, null, null, null},

            {null, null, null, null, null, null},

            {null, null, null, null, null, null},

            {null, null, null, null, null, null},

            {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", "Kode", "Nama", "Kategori", "Satuan", "Stok"
        }
    ));
    datatable.setSelectionMode(javax.swing.ListSelectionModel.SINGLE_SELECTION);
    datatable.addMouseListener(new java.awt.event.MouseAdapter() {
        public void mouseClicked(java.awt.event.MouseEvent evt) {
            datatableMouseClicked(evt);
        }
        public void mouseReleased(java.awt.event.MouseEvent evt) {
            datatableMouseReleased(evt);
        }
    });
    datatable.addKeyListener(new java.awt.event.KeyAdapter() {
        public void keyPressed(java.awt.event.KeyEvent evt) {
            datatableKeyPressed(evt);
        }
```

```java
        public void keyReleased(java.awt.event.KeyEvent evt) {

            datatableKeyReleased(evt);

        }

    });

    jScrollPane1.setViewportView(datatable);


    jLabel5.setFont(new java.awt.Font("Lucida Grande", 0, 24)); // NOI18N


    txtid.setBorder(null);

    txtid.setFont(new java.awt.Font("Dialog", 0, 18)); // NOI18N

    txtid.setForeground(new java.awt.Color(43, 152, 240));

    txtid.setToolTipText("");

    txtid.setCursor(new java.awt.Cursor(java.awt.Cursor.TEXT_CURSOR));

    txtid.setEnabled(false);

    txtid.setFocusable(false);

    jScrollPane2.setViewportView(txtid);


    lbl_action.setFont(new java.awt.Font("Dialog", 0, 18)); // NOI18N

    lbl_action.setText("Form Tambah Data Barang");


    jLabel7.setFont(new java.awt.Font("Dialog", 0, 18)); // NOI18N

    jLabel7.setLabelFor(txtid);

    jLabel7.setText("Baris ID Data");


    btnadd.setFont(new java.awt.Font("Dialog", 0, 18)); // NOI18N

    btnadd.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/inventori_barang/img/add.png"))); // NOI18N

    btnadd.setText("Tambah");

    btnadd.addActionListener(new java.awt.event.ActionListener() {

        public void actionPerformed(java.awt.event.ActionEvent evt) {

            btnaddActionPerformed(evt);
```

```java
        }

    });


    btndelete.setFont(new java.awt.Font("Dialog", 0, 18)); // NOI18N

    btndelete.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/inventori_barang/img/delete.png"))); // NOI18N

    btndelete.setText("Hapus");

    btndelete.addActionListener(new java.awt.event.ActionListener() {

        public void actionPerformed(java.awt.event.ActionEvent evt) {

            btndeleteActionPerformed(evt);

        }

    });


    jPanel1.setBackground(new java.awt.Color(255, 105, 105));


    jLabel8.setFont(new java.awt.Font("Dialog", 3, 36)); // NOI18N

    jLabel8.setForeground(new java.awt.Color(255, 255, 255));

    jLabel8.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);

    jLabel8.setText("Data Barang");


    javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);

    jPanel1.setLayout(jPanel1Layout);

    jPanel1Layout.setHorizontalGroup(

        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jLabel8, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

    );

    jPanel1Layout.setVerticalGroup(

        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jLabel8, javax.swing.GroupLayout.DEFAULT_SIZE, 70, Short.MAX_VALUE)

    );
```

```java
lblcount_rows.setFont(new java.awt.Font("Lucida Grande", 0, 18)); // NOI18N

lblcount_rows.setText("Jumlah Data");


jButton1.setFont(new java.awt.Font("Dialog", 0, 18)); // NOI18N

jButton1.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/inventori_barang/img/refresh.png"))); // NOI18N

jButton1.setText("Perbarui");

jButton1.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        jButton1ActionPerformed(evt);

    }

});


javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

    .addGroup(layout.createSequentialGroup()

        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        .addComponent(jLabel5)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)

            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 700,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addGroup(layout.createSequentialGroup()

                .addComponent(btnadd, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

                .addGap(18, 18, 18)

                .addComponent(btnedit)
```

```
        .addGap(18, 18, 18)

        .addComponent(btndelete)

        .addGap(18, 18, 18)

        .addComponent(jButton1)))

    .addGap(18, 18, 18)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

      .addGroup(layout.createSequentialGroup()

      .addComponent(lbl_action)

      .addGap(18, 18, 18)

      .addComponent(txtid_kategori, javax.swing.GroupLayout.PREFERRED_SIZE, 25,
javax.swing.GroupLayout.PREFERRED_SIZE))

      .addGroup(layout.createSequentialGroup()

      .addComponent(lblcount_rows)

      .addGap(18, 18, 18)

      .addComponent(txttemp_kode, javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)

      .addGap(18, 18, 18)

      .addComponent(jLabel7)

      .addGap(18, 18, 18)

      .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE, 57,
javax.swing.GroupLayout.PREFERRED_SIZE))

      .addComponent(panel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))

    .addGap(18, 18, 18))
  );
  layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
    .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
      .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
```

```
                .addGap(42, 42, 42)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                  .addComponent(lblcount_rows)
                  .addComponent(txttemp_kode, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                  .addComponent(jLabel7)))
              .addGroup(layout.createSequentialGroup()
                .addGap(18, 18, 18)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                  .addComponent(btnadd)
                  .addComponent(btndelete)
                  .addComponent(btnedit)
                  .addComponent(jButton1)))
              .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGap(18, 18, 18)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
              .addGroup(layout.createSequentialGroup()
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                  .addGroup(layout.createSequentialGroup()
                    .addGap(326, 326, 326)
                    .addComponent(jLabel5))
                  .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                      .addComponent(lbl_action)
                      .addComponent(txtid_kategori, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGap(18, 18, 18)
```

```java
                .addComponent(panel, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))

            .addGap(0, 0, Short.MAX_VALUE))

            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 0,
Short.MAX_VALUE))

        .addContainerGap())

    );


    pack();

    setLocationRelativeTo(null);

  }// </editor-fold>


  private void btneditActionPerformed(java.awt.event.ActionEvent evt) {

    String row_id = txtid.getText();

    if (!"0".equals(row_id)) {

      try {

        btnsave.setText("Simpan");

        Connection conn = konek.openkoneksi();

        java.sql.Statement stm = conn.createStatement();

        java.sql.ResultSet sql = stm.executeQuery("SELECT tmbarang.id, tmbarang.kode,
tmbarang.nama, tmbarang.id_kategori, tmkategori.nama as kategori, tmbarang.satuan,
tmbarang.stok FROM tmbarang JOIN tmkategori ON tmkategori.id = tmbarang.id_kategori WHERE
tmbarang.id='" + row_id + "'");

        if (sql.next()) {

          lbl_action.setForeground(new Color(43, 152, 240));

          String kode = sql.getString("kode");

          lbl_action.setText("Edit Data | " + kode);

          txtid.setText(sql.getString("id"));

          txtkode.setText(kode);

          txtnama.setText(sql.getString("nama"));

          cmbid_kategori.setSelectedItem(sql.getString("kategori"));

//          txtid_kategori.setText(sql.getString("id_kategori"));
```

```java
            txtsatuan.setText(sql.getString("satuan"));

            txtstok.setText(sql.getString("stok"));

            txttemp_kode.setText(kode);

            txtkode.requestFocus();

        }

        konek.closekoneksi();

    } catch (SQLException e) {

        JOptionPane.showMessageDialog(null, "Error " + e);

    } catch (ClassNotFoundException ex) {

        Logger.getLogger(Form_Barang.class.getName()).log(Level.SEVERE, null, ex);

    }

} else {

    JOptionPane.showMessageDialog(null, "Terdapat kesalahan id null!");

}

}


private void datatableMouseClicked(java.awt.event.MouseEvent evt) {

    GetData_View();

}


private void btnaddActionPerformed(java.awt.event.ActionEvent evt) {

    lbl_action.setForeground(Color.black);

    lbl_action.setText("Tambah Data");

    datatable.clearSelection();

    TxtEmpty();

    BtnEnabled(false);

    btnsave.setText("Simpan");

    txtkode.requestFocus();

}


private void btndeleteActionPerformed(java.awt.event.ActionEvent evt) {
```

```java
        int ok = JOptionPane.showConfirmDialog(null, "Anda yakin ingin menghapus data ini?",
"Konfirmasi", JOptionPane.OK_CANCEL_OPTION);

    if (ok == 0) {

        try {

            String row_id = txtid.getText();

            Connection conn = konek.openkoneksi();

            java.sql.Statement stm = conn.createStatement();

            stm.executeUpdate("DELETE FROM tmbarang WHERE id = '" + row_id + "'");

            JOptionPane.showMessageDialog(null, "Berhasil menghapus data.");

            btnadd.doClick();

            konek.closekoneksi();

            GetData();

        } catch (SQLException e) {

            JOptionPane.showMessageDialog(null, "Error " + e);

        } catch (ClassNotFoundException ex) {

            Logger.getLogger(Form_Barang.class.getName()).log(Level.SEVERE, null, ex);

        }

    }

}


private void datatableKeyPressed(java.awt.event.KeyEvent evt) {


}


private void datatableKeyReleased(java.awt.event.KeyEvent evt) {

    GetData_View();

}


private void datatableMouseReleased(java.awt.event.MouseEvent evt) {

    GetData_View();

}
```

```java
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    GetData();

}


private void jLabel9KeyTyped(java.awt.event.KeyEvent evt) {


}


private void cmbid_kategoriItemStateChanged(java.awt.event.ItemEvent evt) {

    String nm_kategori = cmbid_kategori.getSelectedItem().toString();

    if (!nm_kategori.equals("")) {

        try {

            Connection conn = konek.openkoneksi();

            java.sql.Statement stm = conn.createStatement();

            java.sql.ResultSet sql = stm.executeQuery("SELECT id FROM tmkategori WHERE nama='" +
nm_kategori + "'");

            if (sql.next()) {

                txtid_kategori.setText(sql.getString("id"));

            }

            konek.closekoneksi();

        } catch (SQLException e) {

            JOptionPane.showMessageDialog(null, "Error " + e);

        } catch (ClassNotFoundException ex) {

            Logger.getLogger(Form_BarangKeluar.class.getName()).log(Level.SEVERE, null, ex);

        }

    } else {

        txtid_kategori.setText("");

    }

}
```

```java
private void txtstokKeyTyped(java.awt.event.KeyEvent evt) {

    char c = evt.getKeyChar();

    if (Character.isWhitespace(c)) {

        JOptionPane.showMessageDialog(null, "Inputan tidak boleh mengandung spasi", "Ilegal
Input", JOptionPane.ERROR_MESSAGE);

        evt.consume();

    }

}


private void txtstokActionPerformed(java.awt.event.ActionEvent evt) {


}


private void btncancelActionPerformed(java.awt.event.ActionEvent evt) {

    btnadd.doClick();

}


private void jLabel6KeyTyped(java.awt.event.KeyEvent evt) {


}


private void txtnamaKeyTyped(java.awt.event.KeyEvent evt) {


}


private void txtnamaActionPerformed(java.awt.event.ActionEvent evt) {


}


private void txtkodeActionPerformed(java.awt.event.ActionEvent evt) {
```

```java
    }


    private void btnsaveActionPerformed(java.awt.event.ActionEvent evt) {


        String row_id = txtid.getText();

        String row_txttemp_kode = txttemp_kode.getText();

        String row_txtkode = txtkode.getText();

        String row_txtnama = txtnama.getText();

        String row_txtkategori = txtid_kategori.getText();

        String row_txtsatuan = txtsatuan.getText();

        String row_txtstok = txtstok.getText();

        SimpleDateFormat dateFormat = new SimpleDateFormat("yyyy-MM-dd");

        String row_txttanggal = dateFormat.format(txt_tanggal.getDate());

        int c_kode = 0;


        if (!"".equals(row_txtkode) && !"".equals(row_txtnama) && !"".equals(row_txtkategori) &&
!"".equals(row_txtsatuan) && !"".equals(row_txtstok)) {

            try {

                Connection conn = konek.openkoneksi();

                java.sql.Statement stm = conn.createStatement();

                java.sql.ResultSet sql = stm.executeQuery("SELECT COUNT(tmbarang.id) as count FROM
tmbarang WHERE tmbarang.kode='" + row_txtkode + "'");

                sql.next();

                c_kode = sql.getInt("count");

                konek.closekoneksi();

            } catch (SQLException e) {

                JOptionPane.showMessageDialog(null, "Error " + e);

            } catch (ClassNotFoundException ex) {

                Logger.getLogger(Form_Barang.class.getName()).log(Level.SEVERE, null, ex);

            }
```

```java
        if ("".equals(row_id)) {

            if (c_kode == 0) {

                try {

                    Connection conn = konek.openkoneksi();

                    java.sql.Statement stm = conn.createStatement();

                    String query = "INSERT INTO tmbarang(kode, nama, id_kategori, satuan, stok, tanggal) VALUES (?, ?, ?, ?, ?, ?)";

                    PreparedStatement pstmt = conn.prepareStatement(query);

                    pstmt.setString(1, row_txtkode);

                    pstmt.setString(2, row_txtnama);

                    pstmt.setString(3, row_txtkategori);

                    pstmt.setString(4, row_txtsatuan);

                    pstmt.setString(5, row_txtstok);

                    pstmt.setString(6, row_txttanggal);


                    pstmt.executeUpdate();


                    JOptionPane.showMessageDialog(null, "Berhasil menyimpan data.");

                    btnadd.doClick();

                    konek.closekoneksi();

                    GetData();

                } catch (SQLException e) {

                    JOptionPane.showMessageDialog(null, "Error " + e);

                } catch (ClassNotFoundException ex) {

                    Logger.getLogger(Form_Barang.class.getName()).log(Level.SEVERE, null, ex);

                }


            } else {

                JOptionPane.showMessageDialog(null, "Kode barang sudah pernah disimpan.", "Gagal Disimpan", JOptionPane.ERROR_MESSAGE);

            }
```

```java
        } else {
            if (c_kode == 0 || row_txtkode.equals(row_txttemp_kode)) {
                try {
                    Connection conn = konek.openkoneksi();

                    java.sql.Statement stm = conn.createStatement();

                    String query = "UPDATE tmbarang SET kode=?, nama=?, id_kategori=?, satuan=?, stok=stok+?, tanggal=? WHERE id=?";

                    PreparedStatement pstmt = conn.prepareStatement(query);

                    pstmt.setString(1, row_txtkode);

                    pstmt.setString(2, row_txtnama);

                    pstmt.setString(3, row_txtkategori);

                    pstmt.setString(4, row_txtsatuan);

                    pstmt.setString(5, row_txtstok);

                    pstmt.setString(6, row_txttanggal);

                    pstmt.setString(7, row_id);

                    pstmt.executeUpdate();


                    JOptionPane.showMessageDialog(null, "Berhasil mengubah data.");

                    btnadd.doClick();

                    konek.closekoneksi();

                    GetData();
                } catch (SQLException e) {
                    JOptionPane.showMessageDialog(null, "Error " + e);
                } catch (ClassNotFoundException ex) {
                    Logger.getLogger(Form_Barang.class.getName()).log(Level.SEVERE, null, ex);
                }


            } else {
                JOptionPane.showMessageDialog(null, "Kode barang sudah pernah disimpan.", "Gagal Disimpan", JOptionPane.ERROR_MESSAGE);
            }
```

```java
        }
    } else {
        JOptionPane.showMessageDialog(null, "Terdapat inputan yang kosong.");
    }
}


public static void main(String args[]) {
    java.awt.EventQueue.invokeLater(() -> {
        Form_Barang dialog = new Form_Barang(new javax.swing.JFrame(), true);
        dialog.addWindowListener(new java.awt.event.WindowAdapter() {
            @Override
            public void windowClosing(java.awt.event.WindowEvent e) {
                System.exit(0);
            }
        });
        dialog.setVisible(true);
    });
}


// Variables declaration - do not modify
private javax.swing.JButton btnadd;
private javax.swing.JButton btncancel;
private javax.swing.JButton btndelete;
private javax.swing.JButton btnedit;
private javax.swing.JButton btnsave;
private javax.swing.JComboBox<String> cmbid_kategori;
private javax.swing.JTable datatable;
private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
```

```java
    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.JScrollPane jScrollPane2;

    private javax.swing.JLabel lbl_action;

    private javax.swing.JLabel lblcount_rows;

    private javax.swing.JPanel panel;

    private com.toedter.calendar.JDateChooser txt_tanggal;

    private javax.swing.JTextPane txtid;

    private javax.swing.JTextField txtid_kategori;

    private javax.swing.JTextField txtkode;

    private javax.swing.JTextField txtnama;

    private javax.swing.JTextField txtsatuan;

    private javax.swing.JTextField txtstok;

    private javax.swing.JTextField txttemp_kode;
    // End of variables declaration
}
```