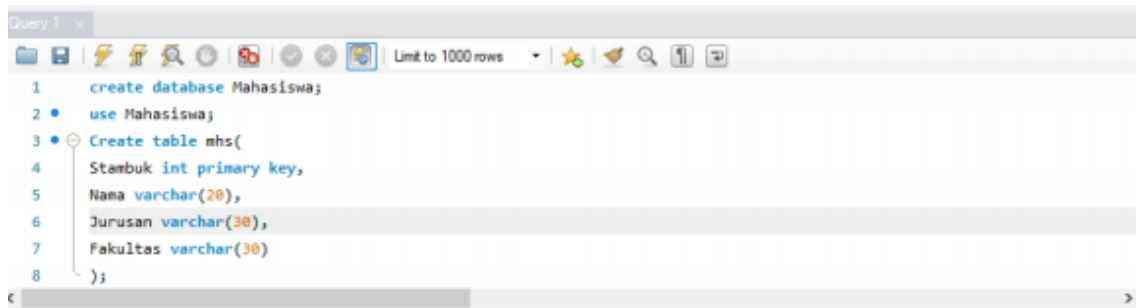


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DOKUMENTASI PEMBUATAN FORM DATA MAHASISWA

1. Pembuatan database dan table



2. Membuat program untuk menghubungkan dengan database

```
package com.kruwell.program;
```

```
import java.sql.Connection;
```

```
import java.sql.DriverManager;
```

```
import java.sql.SQLException;
```

```
/**
```

```
*
```

```
* @author Acer
```

```
*/
```

```
public class config {
```

```

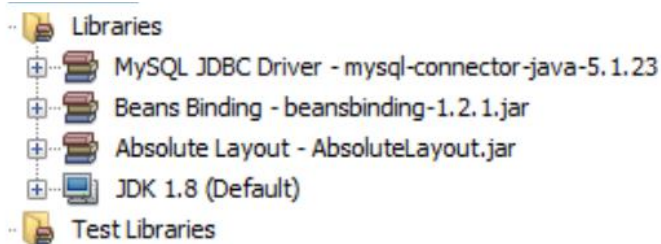
private static Connection MySQLConfig;

public static Connection configDB()throws SQLException{
    try{
        String url = "jdbc:mysql://localhost:3306/tugas12";
        String User = "root";
        String pass = "";

        DriverManager.registerDriver(new com.mysql.jdbc.Driver());
        MySQLConfig = DriverManager.getConnection(url, user, pass);
    }catch(SQLException e){
        System.out.println("Koneksi ke Database gagal" + e.getMessage());
    }
    return MySQLConfig;
}
}

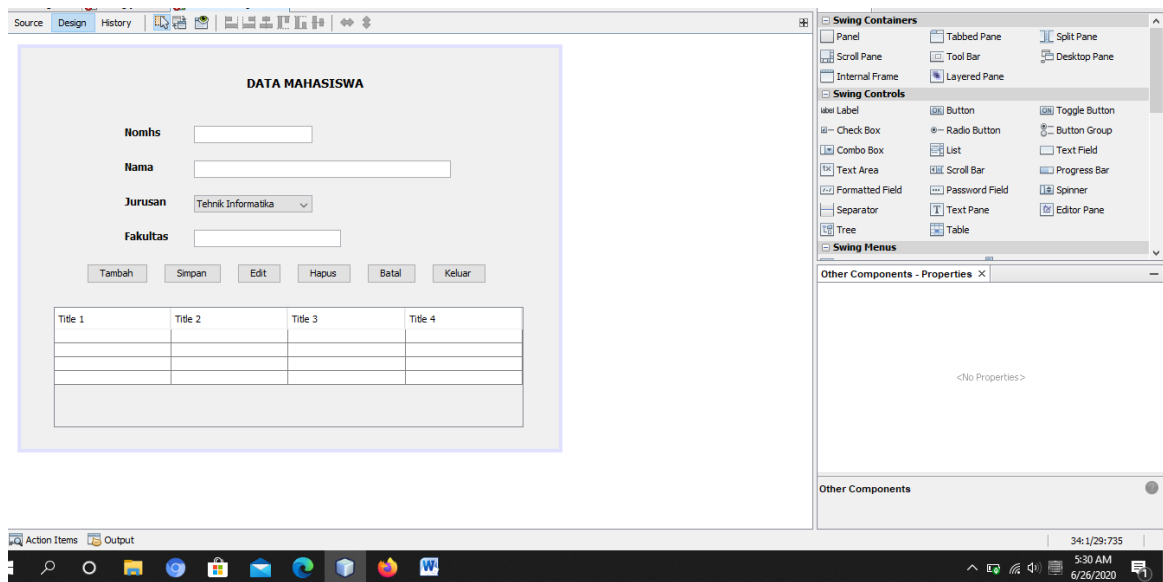
```

Tambahkan juga bagian mysql JDBC driver agar dapat terhubung dengan database.



3. Pembuatan Form

Pembuatan judul . tombol pada form dan pembuatan table untuk menampilkan data yang telah diinput di form



4. Membuat Class mhsGUI.java

```
/*
```

```
 * To change this license header, choose License Headers in Project Properties.
```

```
 * To change this template file, choose Tools | Templates
```

```
 * and open the template in the editor.
```

```
*/
```

```
package com.kruwell.program;
```

```
import java.awt.HeadlessException;
```

```
import java.sql.Connection;
```

```
import javax.swing.table.DefaultTableModel;
```

```
import java.sql.SQLException;
```

```
import javax.swing.JOptionPane;
```

```
/**
```

```
 *
```

```

* @author Acer
*/
public class Mahasiswa extends javax.swing.JFrame {

    private void kosongkan_form(){
        txtNomhs.setEditable(true);
        txtNomhs.setText(null);
        txtNama.setText(null);
        cbJurusan.setSelectedItem(this);
    }

    private void tampilkan_data(Object Nomhs){

        DefaultTableModel model = new DefaultTableModel();
        model.addColumn ("Nomhs.");
        model.addColumn ("Nama");
        model.addColumn ("Jurusan");

        try{
            int NOMhs = 1;
            String sql = "SELECT * FROM MAHASISWA";
            java.sql.Connection conn = (Connection)konfig.configDB();
            java.sql.Statement stm = conn.createStatement();
            java.sql.ResultSet res = stm.executeQuery(sql);

            while(res.next()){
                model.addRow(new
Object[]{Nomhs,res.getString(1),res.getString(2),res.getString(3)});
            }

            tabelMahasiswa.setModel (model);
        }catch (SQLException e){

```

```

        System.out.println("Error : " + e.getMessage());
    }

}

/**
 * Creates new form Mahasiswa
 */
public Mahasiswa() {
    initComponents();
    tampilkan_data();
    kosongkan_form();
}

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    txtNomhs = new javax.swing.JTextField();
    txtNama = new javax.swing.JTextField();
    cbJurusan = new javax.swing.JComboBox<>();
    jScrollPane1 = new javax.swing.JScrollPane();
    tabelMahasiswa = new javax.swing.JTable();
    tbTambah = new javax.swing.JButton();

```

```
tbSimpan = new javax.swing.JButton();
tbEdit = new javax.swing.JButton();
tbHapus = new javax.swing.JButton();
tbBatal = new javax.swing.JButton();
tbKeluar = new javax.swing.JButton();
jLabel5 = new javax.swing.JLabel();
jTextField1 = new javax.swing.JTextField();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setTitle("DATA MAHASISW");
getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

jLabel1.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jLabel1.setText("DATA MAHASISWA");
getContentPane().add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(261,
32, -1, -1));

jLabel2.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N
jLabel2.setText("Nomhs");
getContentPane().add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(120,
90, -1, -1));

jLabel3.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N
jLabel3.setText("Nama");
getContentPane().add(jLabel3, new org.netbeans.lib.awtextra.AbsoluteConstraints(120,
130, -1, -1));

jLabel4.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N
jLabel4.setText("Jurusan");
getContentPane().add(jLabel4, new org.netbeans.lib.awtextra.AbsoluteConstraints(120,
170, -1, -1));
```

```

        getContentPane().add(txtNomhs, new
org.netbeans.lib.awtextra.AbsoluteConstraints(200, 90, 137, -1));

        txtNama.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                txtNamaActionPerformed(evt);
            }
        });
        getContentPane().add(txtNama, new org.netbeans.lib.awtextra.AbsoluteConstraints(200,
130, 297, -1));

        cbJurusan.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Teknik
Informatika", "SiStem Informasi", " ", " " }));
        getContentPane().add(cbJurusan, new
org.netbeans.lib.awtextra.AbsoluteConstraints(200, 170, 137, -1));

        tabelMahasiswa.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"
            }
        ));
        tabelMahasiswa.addMouseListener(new java.awt.event.MouseAdapter() {
            public void mouseClicked(java.awt.event.MouseEvent evt) {
                tabelMahasiswaMouseClicked(evt);
            }
        });
    }
}

```

```

jScrollPane1.setViewportViewView(tabelMahasiswa);

getContentPane().add(jScrollPane1, new
org.netbeans.lib.awtextra.AbsoluteConstraints(38, 299, 543, 139));

tbTambah.setText("Tambah");
tbTambah.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        tbTambahActionPerformed(evt);
    }
});
getContentPane().add(tbTambah, new org.netbeans.lib.awtextra.AbsoluteConstraints(76,
249, -1, -1));

tbSimpan.setText("Simpan");
tbSimpan.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        tbSimpanActionPerformed(evt);
    }
});
getContentPane().add(tbSimpan, new
org.netbeans.lib.awtextra.AbsoluteConstraints(165, 249, -1, -1));

tbEdit.setText("Edit");
tbEdit.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        tbEditActionPerformed(evt);
    }
});
getContentPane().add(tbEdit, new org.netbeans.lib.awtextra.AbsoluteConstraints(250,
249, -1, -1));

```



```
tbHapus.setText("Hapus");
tbHapus.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        tbHapusActionPerformed(evt);
    }
});
getContentPane().add(tbHapus, new org.netbeans.lib.awtextra.AbsoluteConstraints(319,
249, -1, -1));
```

```
tbBatal.setText("Batal");
tbBatal.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        tbBatalActionPerformed(evt);
    }
});
getContentPane().add(tbBatal, new org.netbeans.lib.awtextra.AbsoluteConstraints(400,
249, -1, -1));
```

```
tbKeluar.setText("Keluar");
tbKeluar.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        tbKeluarActionPerformed(evt);
    }
});
getContentPane().add(tbKeluar, new org.netbeans.lib.awtextra.AbsoluteConstraints(475,
249, -1, -1));
```

```
jLabel5.setFont(new java.awt.Font("Tahoma", 1, 12)); // NOI18N
jLabel5.setText("Fakultas");
getContentPane().add(jLabel5, new org.netbeans.lib.awtextra.AbsoluteConstraints(120,
210, -1, -1));
```

```
        getContentPane().add(jTextField1, new  
org.netbeans.lib.awtextra.AbsoluteConstraints(200, 210, 170, -1));
```

```
        pack();  
    }// </editor-fold>
```

```
private void txtNamaActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
}
```

```
private void tbTambahActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    Kosongkan_form();  
}
```

```
private void tbKeluarActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    System.exit(0);  
}
```

```
private void tbSimpanActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
    try{  
        String sql = "INSERT INTO MAHASISWA VALUES  
(\""+txtNomhs.getText()+"','"+txtNama.getText()+"','"+cbJurusan.getSelectedItem()+"");  
        java.sql.Connection conn = (Connection)Konfig.configDB();  
        java.sql.PreparedStatement pstmt = conn.prepareStatement(sql);  
        pstmt.execute();  
        JOptionPane.showMessageDialog(null, "Proses Simpan Data Berhasil..");  
        tampilkan_data();  
        kosongkan_form();  
    }catch(HeadlessException | SQLException e){
```

```

        JOptionPane.showMessageDialog(this, e.getMessage());

    }

}

```

```

private void tabelMahasiswaMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    int baris = tabelMahasiswa.rowAtpoint(evt.getpoin());
    String Nomhs = tabelMahasiswa.getValueAt(baris, 1).toString();
    txtNomhs.setText(Nomhs);

    String Nama = tabelMahasiswa.getValueAt(baris, 2).toString();
    txtNama.setText(Nama);

    String Jurusan = tabelMahasiswa.getValueAt(baris, 3).toString();
    cbJurusan.setSelectedItem(jurusan);
}

```

```

private void tbEditActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{
        String sql = "UPDATE Mahasiswa SET
Nomhs='"+txtNomhs.getText()+"',Nama='"+txtNama.getText()+"',Jurusan='"+cbJurusan.getSel
ectedItem()+"' WHERE Nomhs = '"+txtNomhs.getText()+"'";
        java.sql.Connection conn = (Connection)Konfig.configDB();
        java.sql.PreparedStatement pstmt = conn.prepareStatement(sql);
        pstmt.execute();
        JOptionPane.showMessageDialog(null, "Edit Data Berhasil...");
    }catch(HeadlessException | SQLException e){
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
}

```

```

    tampilkan_data();
    kosongkan_form();
}

```

```

private void tbHapusActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    try{
        String sql ="DELETE FROM MAHASISWA WHERE Nomhs='"+txtNomhs.getText()+"'";
        java.sql.Connection conn = (Connection)Konfig.configDB();
        java.sql.PreparedStatement pstmt = conn.prepareStatement(sql);
        pstmt.execute();
        JOptionPane.showMessageDialog(null, "Hapus Data Berhasil...");
    }catch(HeadlessException | SQLException e){
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
    tampilkan_data();
    kosongkan_form();
}

```

```

private void tbBatalActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    kosongkan_form();
}

```

```

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-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.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(Mahasiswa.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Mahasiswa.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Mahasiswa.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Mahasiswa.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    }
}
//</editor-fold>

```

```

/* Create and display the form */

```

```

java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new Mahasiswa().setVisible(true);
    }
}

```

```
    }  
    });  
}
```

```
// Variables declaration - do not modify  
private javax.swing.JComboBox<String> cbJurusan;  
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.JScrollPane jScrollPane1;  
private javax.swing.JTextField jTextField1;  
private javax.swing.JTable tabelMahasiswa;  
private javax.swing.JButton tbBatal;  
private javax.swing.JButton tbEdit;  
private javax.swing.JButton tbHapus;  
private javax.swing.JButton tbKeluar;  
private javax.swing.JButton tbSimpan;  
private javax.swing.JButton tbTambah;  
private javax.swing.JTextField txtNama;  
private javax.swing.JTextField txtNomhs;  
// End of variables declaration  
}
```

5. Run program

DATA MAHASISWA

DATA MAHASISWA

NoMhs

Nama

Jurusan

Fakultas

Title 1	Title 2	Title 3	Title 4