Ujian Tengah Semester

Pemrograman Komputer 2
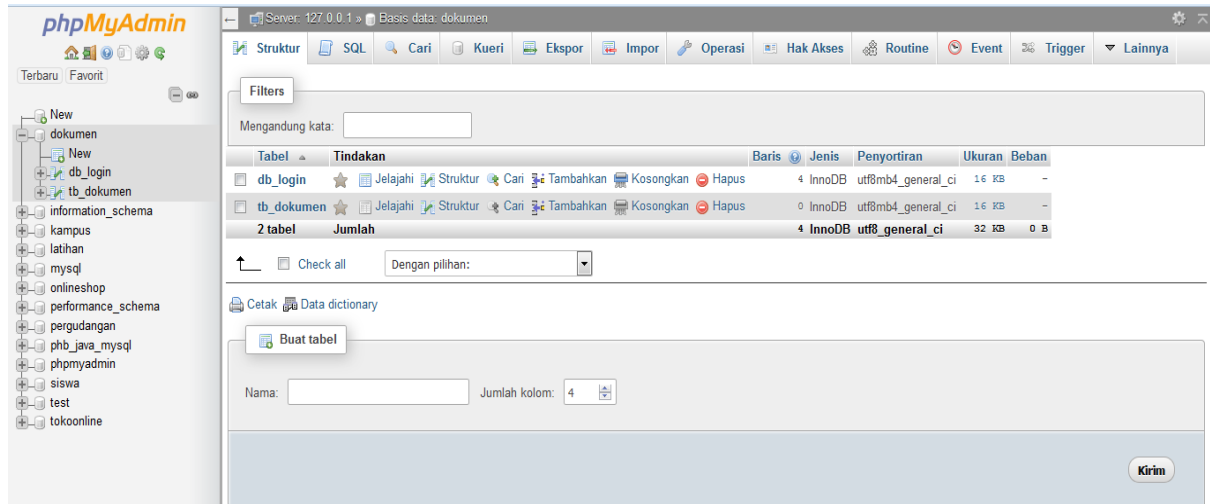

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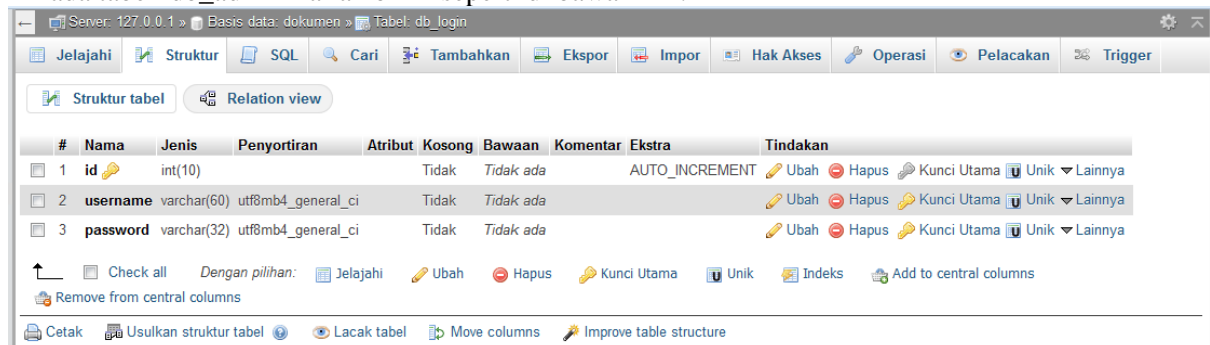
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PROGRAM STUDI D4 TEKNIK INFORMATIKA

POLITEKNIK HARAPAN BERSAMA TEGAL
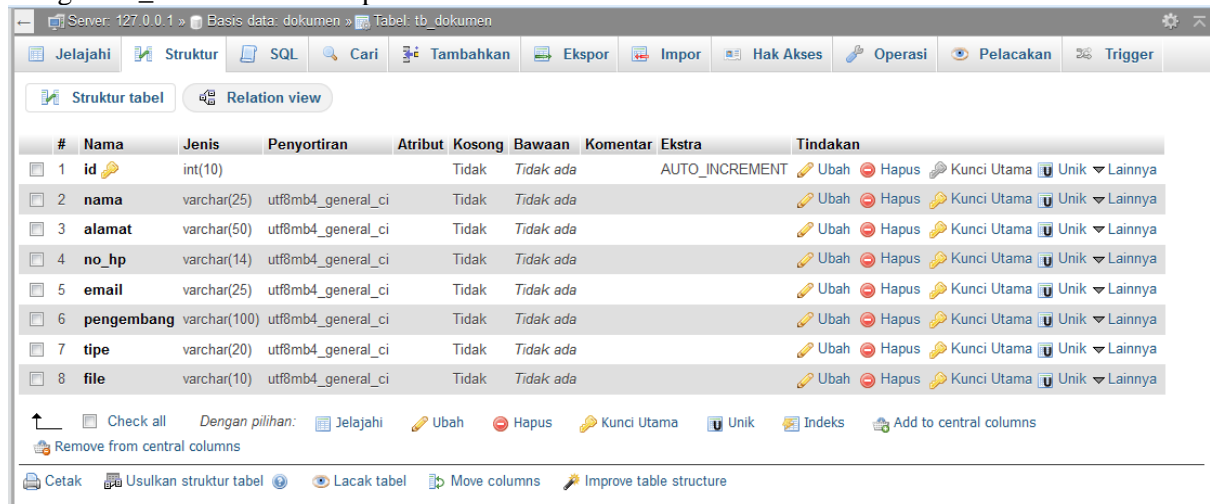
TAHUN AJARAN 2019/2020

1. Membuat database

- Buka xampp, lalu start Apache dan Mysql dan pilih admin untuk masuk ke phpmyadmin

- Lalu kita buat database, didalamnya dibuat 2 tabel db_login dan tb_dokumen seperti di bawah ini :

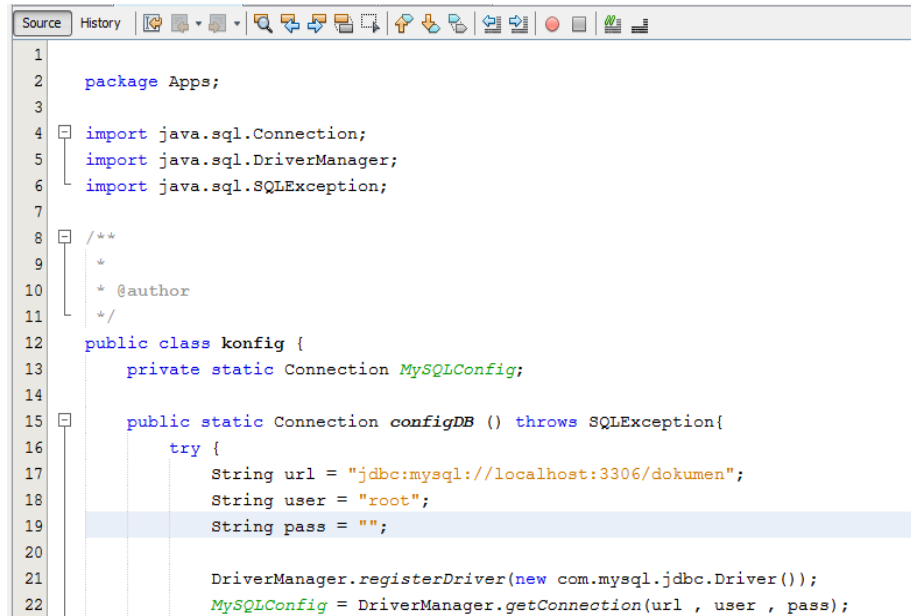- Pada tabel db_admin kalian bikin seperti di bawah ini :

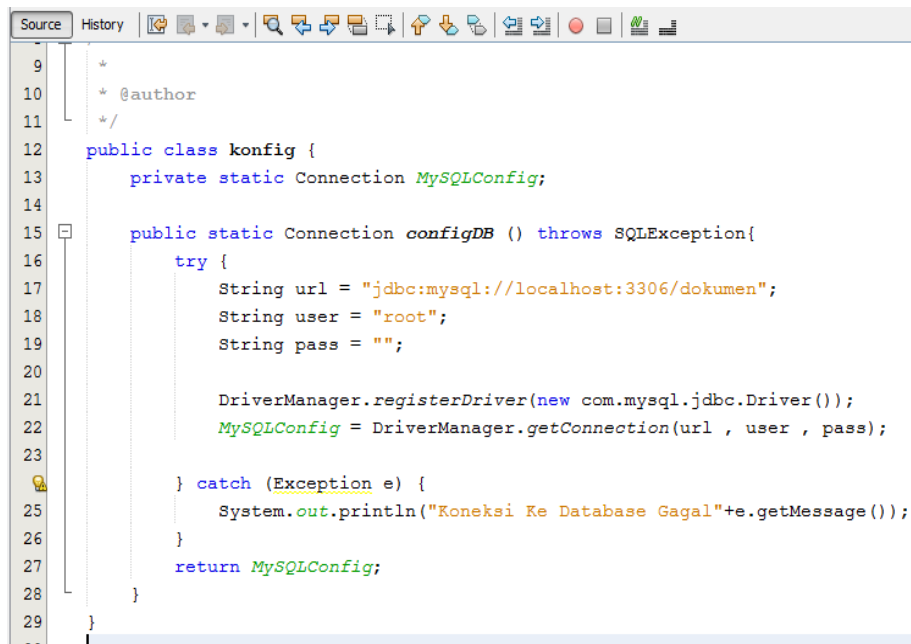- Bagian tb_dokumen bikin seperti di bawah ini :

2. Membuat Project

- Buka aplikasi Netbeans anda, kemudian buat project baru dengan nama dokumen.
- Buat package dengan nama apps, di dalam package apps buat class "konfig" dan buat Jframe "Login", dan Jframe "dokumen"
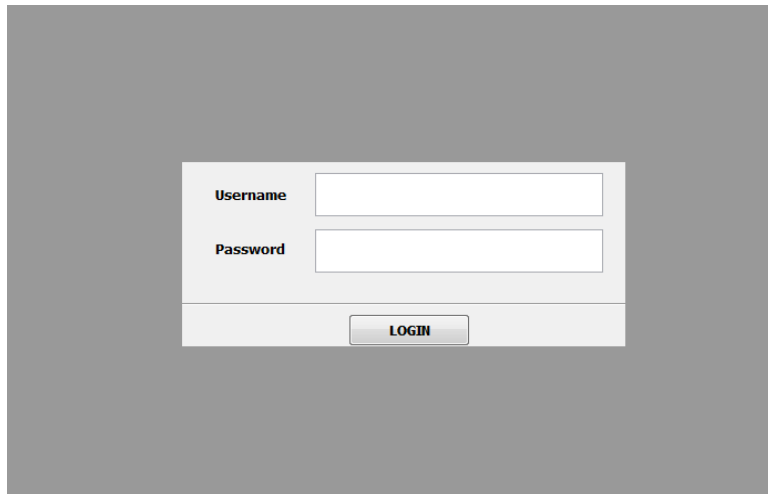- Class konfig fungsinya untuk menyambungkan ke database, Isikan di class konfig seperti dibawah ini :

```java
package Apps;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;

/**
 *
 * @author
 */
public class konfig {
    private static Connection MySQLConfig;

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

            DriverManager.registerDriver(new com.mysql.jdbc.Driver());
            MySQLConfig = DriverManager.getConnection(url , user , pass);
```

```java
 *
 * @author
 */
public class konfig {
    private static Connection MySQLConfig;

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

            DriverManager.registerDriver(new com.mysql.jdbc.Driver());
            MySQLConfig = DriverManager.getConnection(url , user , pass);

        } catch (Exception e) {
            System.out.println("Koneksi Ke Database Gagal"+e.getMessage());
        }
        return MySQLConfig;
    }
}
```

- Buat Jframe login

Username	= **Label** dan **textField**
Password	= **Label** dan **textField**
Pembatas	= **Separator**
Login	= **Jbutton**

-Kemudian buka Source Codenya, lalu isikan kode sebagai berikut :

```
1
2    package Apps;
3
4
5    import java.awt.Frame;
6    import java.security.MessageDigest;
7    import java.security.NoSuchAlgorithmException;
8    import java.sql.Connection;
9    import java.sql.ResultSet;
10   import java.sql.Statement;
11   import javax.swing.JOptionPane;
12
13   /**
14    *
15    * @author
16    */
17   public class Login extends javax.swing.JFrame {
18
19       /**
20        * Creates new form Login
21        */
22       public Login() {
23           initComponents();
24       }
25
```

```java
120      */
121      public static void main(String args[]) {
122          /* Set the Nimbus look and feel */
123          Look and feel setting code (optional)
144
145          /* Create and display the form */
             java.awt.EventQueue.invokeLater(new Runnable() {
                 public void run() {
148                  Login login = new Login();
149                  login.setExtendedState(Frame.MAXIMIZED_BOTH);
150                  login.setVisible(true);
151              }
152          });
153      }
154
```

```java
156      private javax.swing.JButton btnlogin;
157      private javax.swing.JLabel jLabel1;
158      private javax.swing.JLabel jLabel2;
159      private javax.swing.JPanel jPanel1;
160      private javax.swing.JPanel jPanel2;
161      private javax.swing.JPanel jPanel3;
162      private javax.swing.JSeparator jSeparator1;
163      private javax.swing.JPasswordField txtpassword;
164      private javax.swing.JTextField txtusername;
165      // End of variables declaration
166
167      public void doLogin() {
168          btnlogin.setEnabled(false);
169          String user = txtusername.getText();
170          char[] pass = txtpassword.getPassword();
171          if (user.isEmpty()) {
172              JOptionPane.showMessageDialog(this, "Username harus diisi");
173              txtusername.requestFocus();
174          } else if (pass.length == 0) {
175              JOptionPane.showMessageDialog(this, "Password harus diisi");
176              txtpassword.requestFocus();
177          } else {
178              String password = new String(pass);
179              String md5_pass = md5(password);
180              try {
181                  Connection c = konfig.configDB();
```

```java
180             try {
181                 Connection c = konfig.configDB();
182                 Statement st = c.createStatement();
183                 String q = " SELECT * FROM db_login "
184                         + "WHERE username = '" + user + "' "
185                         + "AND password = '" + md5_pass + "'";
186                 ResultSet rs = st.executeQuery(q);
187                 int n = 0;
188                 while (rs.next()) {
189                     String u = rs.getString("username");
190                     String p = rs.getString("password");
191                     n++;
192                 }
193                 if (n == 0) {
194                     JOptionPane.showMessageDialog(this, "Username/password salah!");
195                     txtusername.requestFocus();
196                     btnlogin.setEnabled(true);
197                 } else {
198                     dokumen kar = new dokumen();
199                     this.setVisible(false);
200                     kar.setExtendedState(Frame.MAXIMIZED_BOTH);
201                     kar.setVisible(true);
202                 }
203             } catch (Exception e) {
204                 System.out.println(e.getMessage());
205             }
```

```java
205             }
206         }
207     }
208
209     public static String md5(String data) {
210         String hashed = "";
211         try {
212             MessageDigest md5 = MessageDigest.getInstance("MD5");
213             md5.update(data.getBytes());
214             byte[] byteData = md5.digest();
215             StringBuilder sb = new StringBuilder();
216             for (int i = 0; i < byteData.length; i++) {
217                 sb.append(Integer.toString((byteData[i] & 0xff)
218                         + 0x100, 16).substring(1));
219             }
220             hashed = sb.toString();
221         } catch (NoSuchAlgorithmException e) {
222         }
223         return hashed;
224     }
225 }
226
```

-Kemudian buat Jframe dokumen seperti dibawah ini

Masukkan beberapa desain berikut

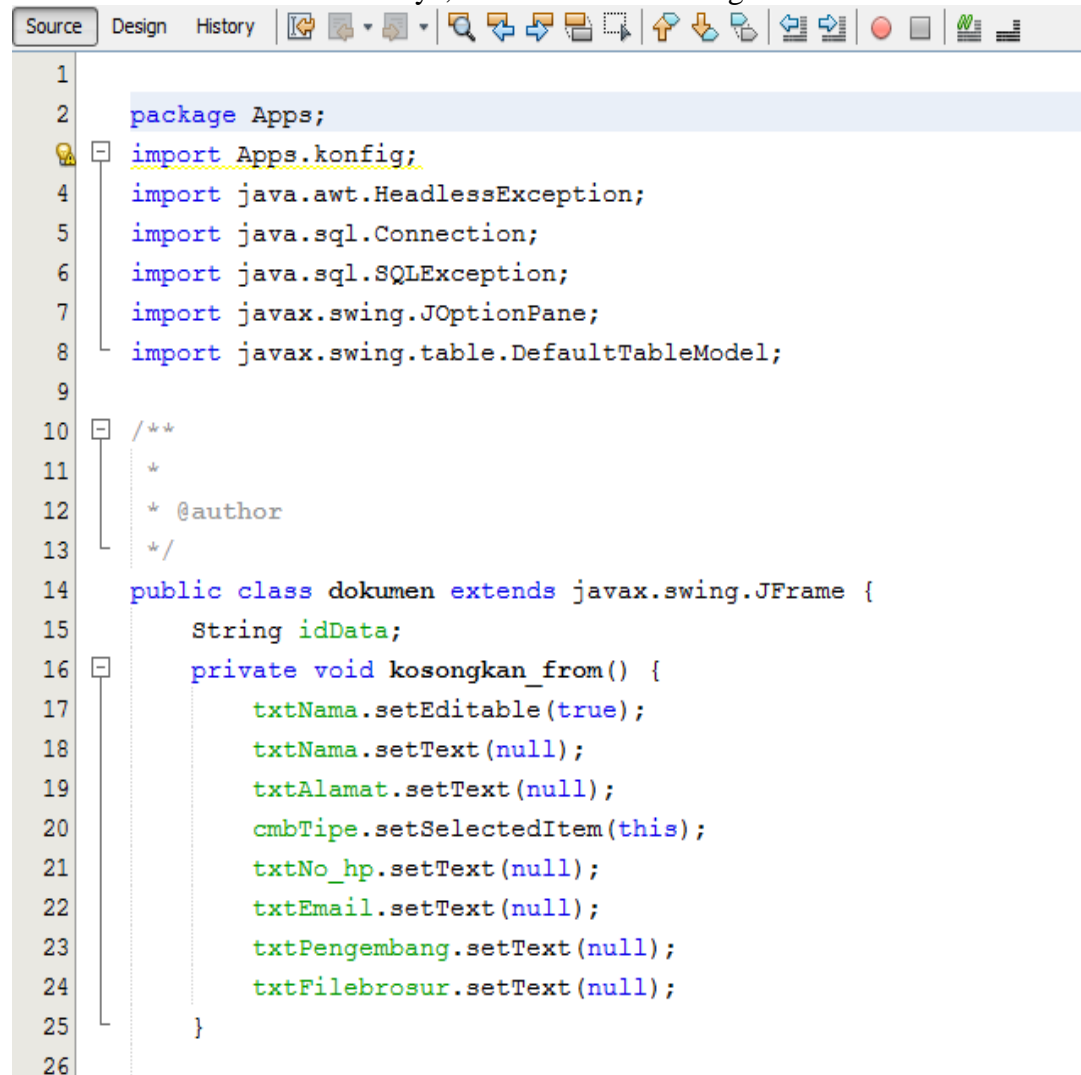Id   = **Label** dan **textField**

Nama Perumahan   = **Label** dan **textField**

Alamat   = **Label** dan **textField**

NO. Telp   = **Label** dan **textField**

Email   = **Label** dan **textField**

Pengembang   = **Label** dan **textField**

Tipe Perumahan   = **Label** dan **textField**

File Brosur   = **Label** dan **textField**

Tambah   = **Jbutton**

Ubah   = **Jbutton**

Hapus	= **Jbutton**
Pembatas	= **Separator**
Tabel	= **Jtable**

-Kemudian buka Source Codenya, lalu isikan kode sebagai berikut :

```java
package Apps;
import Apps.konfig;
import java.awt.HeadlessException;
import java.sql.Connection;
import java.sql.SQLException;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;

/**
 *
 * @author
 */
public class dokumen extends javax.swing.JFrame {
    String idData;
    private void kosongkan_from() {
        txtNama.setEditable(true);
        txtNama.setText(null);
        txtAlamat.setText(null);
        cmbTipe.setSelectedItem(this);
        txtNo_hp.setText(null);
        txtEmail.setText(null);
        txtPengembang.setText(null);
        txtFilebrosur.setText(null);
    }
```

```java
27  private void tampilkan_data(String key) {
28      DefaultTableModel model = new DefaultTableModel();
29      model.addColumn("No.");
30      model.addColumn("Id.");
31      model.addColumn("Nama Perumahan");
32      model.addColumn("Alamat");
33      model.addColumn("NO. Telephone");
34      model.addColumn("Email");
35      model.addColumn("Pengembang");
36      model.addColumn("Tipe Perumahan");
37      model.addColumn("File Brosur");
38      try {
39          int no = 1;
40          String where = key.isEmpty() ? "" : "WHERE nama LIKE '%" + key + "%' ";
41          String sql = "SELECT * FROM tb_dokumen "+where;
42          java.sql.Connection conn = (Connection) konfig.configDB();
43          java.sql.Statement stm = conn.createStatement();
44          java.sql.ResultSet res = stm.executeQuery(sql);
45          while (res.next()) {
46              model.addRow(new Object[]{no++, res.getString(1),
47                  res.getString(2), res.getString(3), res.getString(4), res.getString(5),
48                  res.getString(6), res.getString(7), res.getString(8)});
49          }
50          tabledokumen.setModel(model);
    } catch (Exception e) {
```

```java
        } catch (Exception e) {
51          System.out.println("Error : " + e.getMessage());
52      }
53  }
54
55  /** Creates new form dokumen ...3 lines */
58  public dokumen() {
59      initComponents();
60      tampilkan_data("");
61      kosongkan_from();
62  }
63
```

```java
282    private void btnTambahDataActionPerformed(java.awt.event.ActionEvent evt) {
283        try {
284            String sql = "INSERT INTO tb_dokumen VALUES (NULL, '" + txtNama.getText() + "','" + txtAlar
285            java.sql.Connection conn = (Connection) konfig.configDB();
286            java.sql.PreparedStatement pstm = conn.prepareStatement(sql);
287            pstm.execute();
288            JOptionPane.showMessageDialog(null, "Proses simpan Data berhasil");
289            tampilkan_data("");
290            kosongkan_from();
291        } catch (HeadlessException | SQLException e) {
292            JOptionPane.showMessageDialog(this, e.getMessage());
293        }
294        txtNama.setFocusable(true);
295        // TODO add your handling code here:
296    }
297
298    private void btnEditActionPerformed(java.awt.event.ActionEvent evt) {
299
300        try {
301            String sql = "UPDATE tb_dokumen set nama ='"+txtNama.getText()+"',"
302                    + "alamat ='"+txtAlamat.getText()+"',no_hp ='"+txtNo_hp.getText()+"',"
303                    + "email ='"+txtEmail.getText()+"'"
304                    + ",pengembang ='"+txtPengembang.getText()+"',tipe ='"+cmbTipe.getSelectedItem()+"
305                    + "file ='"+txtFilebrosur.getText()+"' WHERE id ='"+idData+"'";
306
307        java.sql.Connection conn = (Connection) konfig.configDB();
```

```java
307            java.sql.Connection conn = (Connection) konfig.configDB();
308            java.sql.PreparedStatement pstm = conn.prepareStatement(sql);
309            pstm.execute();
310            JOptionPane.showMessageDialog(null, "Edit Data Berhasil");
311        } catch (HeadlessException | SQLException e) {
312            JOptionPane.showMessageDialog(this, e.getMessage());
313        }
314        tampilkan_data("");
315        kosongkan_from();// TODO add your handling code here:
316    }
317
318    private void btnHapusActionPerformed(java.awt.event.ActionEvent evt) {
319        try {
320            String sql = "DELETE FROM tb_dokumen WHERE id = '" + idData + "'";
321            java.sql.Connection conn = (Connection) konfig.configDB();
322            java.sql.PreparedStatement pstm = conn.prepareStatement(sql);
323            pstm.execute();
324            JOptionPane.showMessageDialog(null, "Hapus Data Berhasil");
325        } catch (HeadlessException | SQLException e) {
326            JOptionPane.showMessageDialog(this, e.getMessage());
327        }
328        tampilkan_data("");
329        kosongkan_from();
330        // TODO add your handling code here:
331    }
```

```java
private void tabledokumenMouseClicked(java.awt.event.MouseEvent evt) {
    int baris = tabledokumen.getSelectedRow();

    if (baris > -1) {
    idData = tabledokumen.getValueAt(baris, 1).toString();
    String nama = tabledokumen.getValueAt(baris, 2).toString();
    txtNama.setText(nama);

    String alamat = tabledokumen.getValueAt(baris, 3).toString();
    txtAlamat.setText(alamat);

    String no_hp = tabledokumen.getValueAt(baris, 4).toString();
    txtNo_hp.setText(no_hp);

    String email = tabledokumen.getValueAt(baris, 5).toString();
    txtEmail.setText(email);

    String pengembang = tabledokumen.getValueAt(baris, 6).toString();
    txtPengembang.setText(pengembang);

    String tipe = tabledokumen.getValueAt(baris, 7).toString();
    cmbTipe.setSelectedItem(tipe);

    String brosur = tabledokumen.getValueAt(baris, 8).toString();
    txtFilebrosur.setText(brosur);
    }
```

```java
363    private void txtCariKeyReleased(java.awt.event.KeyEvent evt) {
364        String key = txtCari.getText();
365        if (key.isEmpty()) {
366            tampilkan_data("");
367        } else {
368            tampilkan_data(key);
369        }
370    }
371
372    /**
373     * @param args the command line arguments
374     */
375    public static void main(String args[]) {
376        /* Set the Nimbus look and feel */
377        Look and feel setting code (optional)
398        //</editor-fold>
399        //</editor-fold>
400        //</editor-fold>
401
402        /* Create and display the form */
       java.awt.EventQueue.invokeLater(new Runnable() {
           public void run() {
405                new dokumen().setVisible(true);
406            }
407        });
408    }
```