PROGRAM STUDI TEKNIK INFORMATIKA
FAKULTAS TEKNIK
UNIVERSITAS PELITA BANGSA

UJIAN TENGAH SEMESTER GANJIL TA 2024/2025

Mata Kuliah	:	Pemograman Visual
Program Studi/Semester	:	Teknik Informatika /
Hari/Tanggal	:	07 November 2024
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LAPORAN PRAKTIKUM 6 DAN 7

❖ **Link Github :** *https://github.com/zulaeha168/UTS_PEMOGRAMAN-VISUAL*

❖ **Source Code**

- ***Config/KoneksiDB..Java***

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
 */
package Config;

/**
 *
 * @author acer
 */
import java.sql.*;
import javax.swing.JOptionPane;

public class KoneksiDB {
    private static Connection conn;
    public static Connection getKoneksi() {
```

```
        try {
            //untuk menentukan driver DB
            Class.forName("com.mysql.cj.jdbc.Driver");

            //untuk membuat koneksi dari DB ke driver
            String url = "jdbc:mysql://localhost:3306/pv_biodata";
            String user = "root";
            String password = "";
            conn = DriverManager.getConnection(url, user, password);

            //pesan jika koneksi berhasil
            JOptionPane.showMessageDialog(null, "Koneksi Berhasil");
        } catch (Exception e) {
            //pesan jika koneksi gagal
            JOptionPane.showMessageDialog(null, "Koneksi Gagal");
        }
        return conn;
    }
}
```

- ***Config/cekKoneksi.Java***

```
/*
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license
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template
 */
package Config;

/**
 *
 * @author acer
 */
import java.sql.Connection;
import javax.swing.JOptionPane;
public class cekKoneksi extends javax.swing.JFrame {

    /**
     * Creates new form cekKoneksi
     */
    public cekKoneksi() {
        initComponents();
    }

    /**
     * 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() {

        btnCekKoneksi = new javax.swing.JButton();
```

```
        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        btnCekKoneksi.setText("Cek Koneksi");
        btnCekKoneksi.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                btnCekKoneksiActionPerformed(evt);
            }
        });

        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(140, 140, 140)
                .addComponent(btnCekKoneksi)
                .addContainerGap(166, Short.MAX_VALUE))
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(124, 124, 124)
                .addComponent(btnCekKoneksi)
                .addContainerGap(153, Short.MAX_VALUE))
        );

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

    private void btnCekKoneksiActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        Connection conn = new KoneksiDB().getKoneksi();
    }

    /**
     * @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(cekKoneksi.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

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

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

java.util.logging.Logger.getLogger(cekKoneksi.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 cekKoneksi().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify
    private javax.swing.JButton btnCekKoneksi;
    // End of variables declaration
}
```

- ***Form/FormBiodata.Java***

```
/*
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 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template
 */
package Form;

/**
 *
 * @author Zulaeha TI.22.A.5
 */
import Config.KoneksiDB;
import javax.swing.JOptionPane;
import java.sql.*;
import javax.swing.table.DefaultTableModel;
import java.sql.PreparedStatement;

public class FormBiodata extends javax.swing.JFrame {
private Statement st;
    private ResultSet rs;
```

```
private Connection conn;
private PreparedStatement pst;

/**
 * Creates new form FormBiodata
 */
public FormBiodata() {
    initComponents();
    conn = KoneksiDB.getKoneksi();
    tampilData();
}

private void tampilData() {
    DefaultTableModel kolomtabel = new DefaultTableModel();
    kolomtabel.addColumn("No.");
    kolomtabel.addColumn("Nama");
    kolomtabel.addColumn("NIM");
    kolomtabel.addColumn("TTL");
    kolomtabel.addColumn("Jenis Kelamin");
    kolomtabel.addColumn("Prodi");
    kolomtabel.addColumn("No. Telepon");
    kolomtabel.addColumn("Alamat");

    try {
        int nomor = 1;

        // buat objek statement untuk mengeksekusi query mysql.
        st = conn.createStatement();

        // buat query ke database
        String sql = "SELECT * FROM tbl_biodata";

        // eksekusi query dan simpan hasilnya di objek ResultSet
        rs = st.executeQuery(sql);

        // tampilkan hasil query menggunakan perulangan while
        while (rs.next()) {
            kolomtabel.addRow(new Object[]{
                ("" + nomor++),
                rs.getString("nama"),
                rs.getString("nim"),
                rs.getString("ttl"),
                rs.getString("jekel"),
                rs.getString("prodi"),
                rs.getString("notelp"),
                rs.getString("alamat"),});
            tbl_biodata.setModel(kolomtabel);
            tbl_biodata.enable(true);
            tfNama.requestFocus();
        }
    } catch (Exception e) {
        JOptionPane.showMessageDialog(null, "Gagal menampilkan data."
                + "\n" + e.getMessage());
    }
}
```

```
private void clearForm() {
    tfNama.setText("");
    tfNIM.setText("");
    tfTTL.setText("");
    buttonGroup1.clearSelection();
    cmbProdi.setSelectedItem("-- Program Studi --");
    tfNomorTelepon.setText("");
    taAlamat.setText("");
    tfNama.requestFocus();
}

private void hapusData() {
    int row = tbl_biodata.getSelectedRow();
    if (row == -1) {
        JOptionPane.showMessageDialog(this, "Pilih baris yang akan di hapus !");
        return;
    }
    int jawab = JOptionPane.showOptionDialog(this,
            "Apakah Anda ingin menghapus data ini?",
            "Konfirmasi",
            JOptionPane.YES_NO_OPTION,
            JOptionPane.QUESTION_MESSAGE, null, null, null);
    if (jawab == JOptionPane.YES_OPTION) {
        try {
            String sql = "DELETE FROM tbl_biodata WHERE nim='" +
                    tfNIM.getText() + "' ";
            pst = conn.prepareStatement(sql);
            pst.executeUpdate();
            JOptionPane.showMessageDialog(null, "Data berhasil di hapus");
            clearForm();
            tampilData();
        } catch (Exception e) {
            JOptionPane.showMessageDialog(this, e.getMessage());
        }
    } else {
        clearForm();
        tampilData();
    }
}
/**
 * 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() {

    buttonGroup1 = new javax.swing.ButtonGroup();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    jLabel5 = new javax.swing.JLabel();
```

```
        jLabel6 = new javax.swing.JLabel();
        jLabel7 = new javax.swing.JLabel();
        jLabel8 = new javax.swing.JLabel();
        tfNama = new javax.swing.JTextField();
        tfNIM = new javax.swing.JTextField();
        tfTTL = new javax.swing.JTextField();
        rbLaki = new javax.swing.JRadioButton();
        rbPerempuan = new javax.swing.JRadioButton();
        cmbProdi = new javax.swing.JComboBox<>();
        tfNomorTelepon = new javax.swing.JTextField();
        jScrollPane1 = new javax.swing.JScrollPane();
        taAlamat = new javax.swing.JTextArea();
        btnSubmit = new javax.swing.JButton();
        btnClear = new javax.swing.JButton();
        btnUpdate = new javax.swing.JButton();
        btnDelete = new javax.swing.JButton();
        btnExit = new javax.swing.JButton();
        jScrollPane2 = new javax.swing.JScrollPane();
        tbl_biodata = new javax.swing.JTable();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 24)); // NOI18N
        jLabel1.setText("Biodata");

        jLabel2.setText("Nama Mahasiswa/i :");

        jLabel3.setText("NIM :");

        jLabel4.setText("Tempat dan Tgl. Lahir :");

        jLabel5.setText("Jenis Kelamin :");

        jLabel6.setText("Prodi :");

        jLabel7.setText("Telepon :");

        jLabel8.setText("Alamat :");

        buttonGroup1.add(rbLaki);
        rbLaki.setText("Laki-laki");

        buttonGroup1.add(rbPerempuan);
        rbPerempuan.setText("Perempuan");

        cmbProdi.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "--
Program Studi --", "Teknik Informatika", "Teknik Industri", "Teknik Lingkungan", "Teknik
Sipil", "Teknologi Hasil Pertanian", "Arsitektur", "Bisnis Digital", "Manajemen",
"Kewirausahaan", "Akuntansi", "Hukum", "Ekonomi Syariah", "PGSD", "PGPAUD", "BKPI"
}));

        tfNomorTelepon.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                tfNomorTeleponActionPerformed(evt);
            }
```

```
});

taAlamat.setColumns(20);
taAlamat.setRows(5);
jScrollPane1.setViewportView(taAlamat);

btnSubmit.setText("Submit");
btnSubmit.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnSubmitActionPerformed(evt);
    }
});

btnClear.setText("Clear");
btnClear.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnClearActionPerformed(evt);
    }
});

btnUpdate.setText("Update");
btnUpdate.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnUpdateActionPerformed(evt);
    }
});

btnDelete.setText("Delete");
btnDelete.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnDeleteActionPerformed(evt);
    }
});

btnExit.setText("Exit");
btnExit.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnExitActionPerformed(evt);
    }
});

tbl_biodata.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"
    }
));
tbl_biodata.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        tbl_biodataMouseClicked(evt);
```

```
            }
        });
        jScrollPane2.setViewportView(tbl_biodata);

        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(442, 442, 442)
                .addComponent(jLabel1)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
            .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(layout.createSequentialGroup()
                        .addGap(23, 23, 23)
                        .addComponent(btnSubmit)

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

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

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                        .addComponent(btnDelete)
                        .addGap(18, 18, 18)
                        .addComponent(btnExit))
                    .addGroup(layout.createSequentialGroup()
                        .addGap(34, 34, 34)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                            .addComponent(jLabel4)
                            .addComponent(jLabel3, javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(jLabel5, javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(jLabel2, javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(jLabel6, javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(jLabel7, javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(jLabel8, javax.swing.GroupLayout.Alignment.LEADING))
                        .addGap(42, 42, 42)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(tfNama, javax.swing.GroupLayout.PREFERRED_SIZE,
234, javax.swing.GroupLayout.PREFERRED_SIZE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
                                .addComponent(tfNIM, javax.swing.GroupLayout.Alignment.LEADING)
                                .addComponent(tfTTL, javax.swing.GroupLayout.Alignment.LEADING)
                                .addComponent(cmbProdi,
javax.swing.GroupLayout.Alignment.LEADING, 0,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                                .addComponent(tfNomorTelepon,
javax.swing.GroupLayout.Alignment.LEADING)
```

```
                        .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
layout.createSequentialGroup()
                            .addComponent(rbLaki)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                            .addComponent(rbPerempuan)
                            .addGap(35, 35, 35))
                        .addComponent(jScrollPane1,
javax.swing.GroupLayout.Alignment.LEADING)))))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 56,
Short.MAX_VALUE)
            .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(24, 24, 24))
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addGap(36, 36, 36)
                    .addComponent(jLabel1)
                    .addGap(26, 26, 26)
                    .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGroup(layout.createSequentialGroup()
                    .addGap(102, 102, 102)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(tfNama, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jLabel2))
                    .addGap(12, 12, 12)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(tfNIM, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jLabel3))

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                        .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                            .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                                .addComponent(tfTTL,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addComponent(jLabel4))
```

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                    .addComponent(rbLaki)
                                    .addComponent(rbPerempuan)
                                    .addComponent(jLabel5))
                                .addGap(35, 35, 35))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                                .addComponent(cmbProdi,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addComponent(jLabel6)))
                            .addGap(54, 54, 54))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                            .addComponent(tfNomorTelepon,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(jLabel7)))
                    .addGap(12, 12, 12)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jLabel8))
                    .addGap(85, 85, 85)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                        .addComponent(btnSubmit)
                        .addComponent(btnClear)
                        .addComponent(btnUpdate)
                        .addComponent(btnDelete)
                        .addComponent(btnExit))))
                .addContainerGap(29, Short.MAX_VALUE))
        );

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

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

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

    private void btnSubmitActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        //membuat validasi form kosong
        if (tfNama.getText().equals("")
```

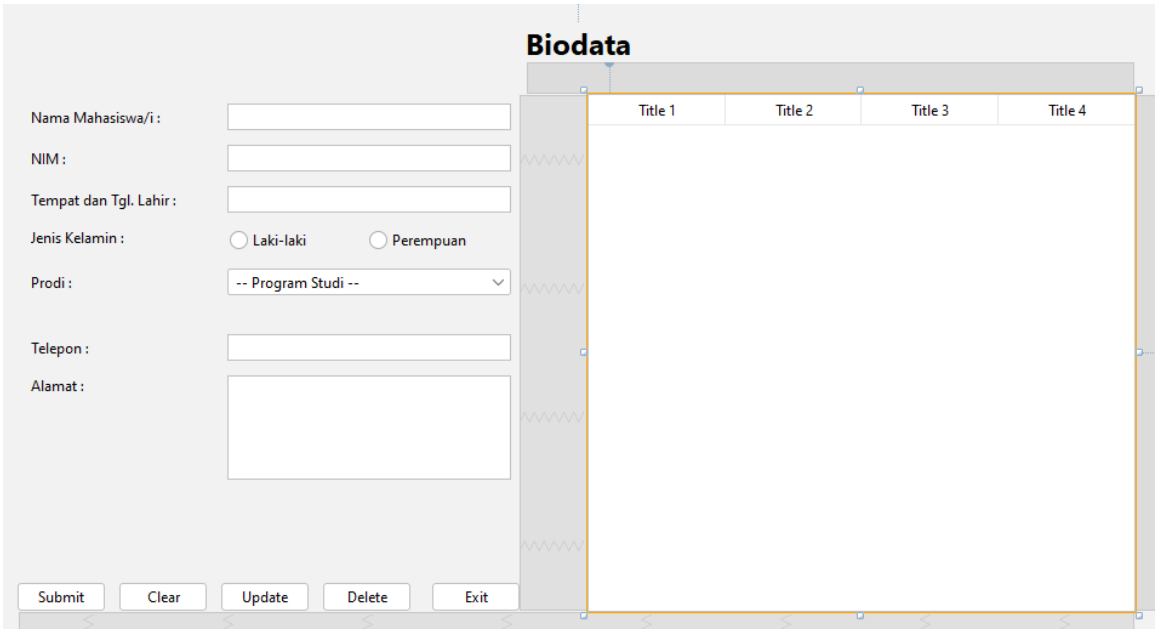
```
            || tfNIM.getText().equals("")
            || tfTTL.getText().equals("")
            || tfNomorTelepon.getText().equals("")
            || taAlamat.getText().equals("")
            || buttonGroup1.isSelected(null)
            || cmbProdi.getSelectedItem().equals("-- Program Studi --")) {

        JOptionPane.showMessageDialog(this, "Field harap di isi !",
                "Validasi", JOptionPane.ERROR_MESSAGE);
        return;
    }

    try {
        String cekDB = "SELECT * FROM tbl_biodata WHERE nim = '" +
                tfNIM.getText() + "' ";
        rs = st.executeQuery(cekDB);
        if (rs.next()) {
            JOptionPane.showMessageDialog(null, "NIM sudah tersedia !");
        } else {
            st = conn.createStatement();
            String jekel;
            if (rbLaki.isSelected()) {
                jekel = "Laki - Laki";
            } else {
                jekel = "Perempuan";
            }

            //aksi simpan data (Submit/Save/Add)
            String sql = "INSERT INTO tbl_biodata (nama, nim, ttl, jekel, prodi, notelp, alamat)
VALUES ('"
                    + tfNama.getText()
                    + "', '" + tfNIM.getText()
                    + "', '" + tfTTL.getText()
                    + "', '" + jekel
                    + "', '" + cmbProdi.getSelectedItem()
                    + "', '" + tfNomorTelepon.getText()
                    + "', '" + taAlamat.getText()
                    + "') ";

            st.executeUpdate(sql);
            JOptionPane.showMessageDialog(null, "Data berhasil di simpan");
            tampilData();
            clearForm();
        }
    } catch (Exception e) {
        JOptionPane.showMessageDialog(this, e.getMessage());
    }
}


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

```
    private void tbl_biodataMouseClicked(java.awt.event.MouseEvent evt) {
        // TODO add your handling code here:
        int row = tbl_biodata.getSelectedRow();
        if (tbl_biodata.getValueAt(row, 4).equals("Laki-laki")) {
            rbLaki.setSelected(true);
        } else if (tbl_biodata.getValueAt(row, 4).equals("Perempuan")) {
            rbPerempuan.setSelected(true);
        }
        tfNama.setText(tbl_biodata.getValueAt(row, 1).toString());
        tfNIM.setText(tbl_biodata.getValueAt(row, 2).toString());
        tfTTL.setText(tbl_biodata.getValueAt(row, 3).toString());
        cmbProdi.setSelectedItem(tbl_biodata.getValueAt(row, 5).toString());
        tfNomorTelepon.setText(tbl_biodata.getValueAt(row, 6).toString());
        taAlamat.setText(tbl_biodata.getValueAt(row, 7).toString());
    }

    private void btnExitActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        int jawab = JOptionPane.showOptionDialog(this,
                "Apakah Anda Ingin Keluar?",
                "Exit",
                JOptionPane.YES_NO_OPTION,
                JOptionPane.QUESTION_MESSAGE, null, null, null);
        if (jawab == JOptionPane.YES_OPTION) {
            System.exit(0);
        }
    }

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

    // TODO add your handling code here:
    // Membuat validasi form kosong
    if (tfNama.getText().equals("")
            || tfNIM.getText().equals("")
            || tfTTL.getText().equals("")
            || tfNomorTelepon.getText().equals("")
            || taAlamat.getText().equals("")
            || buttonGroup1.isSelected(null)
            || cmbProdi.getSelectedItem().equals("-- Program Studi --")) {

        JOptionPane.showMessageDialog(this, "Field harap di isi !",
                "Validasi", JOptionPane.ERROR_MESSAGE);
        return;
    }

    try {
        String cekDB = "SELECT * FROM tbl_biodata WHERE nim = '" + tfNIM.getText() + "'
";
        rs = st.executeQuery(cekDB);
        if (!rs.next()) {
            JOptionPane.showMessageDialog(null, "NIM tidak ditemukan, tidak dapat mengupdate
data!");
        } else {
            String jekel;
            if (rbLaki.isSelected()) {
```

```
            jekel = "Laki - Laki";
        } else {
            jekel = "Perempuan";
        }

        // Aksi update data
        String sql = "UPDATE tbl_biodata SET "
                + "nama = '" + tfNama.getText() + "', "
                + "ttl = '" + tfTTL.getText() + "', "
                + "jekel = '" + jekel + "', "
                + "prodi = '" + cmbProdi.getSelectedItem() + "', "
                + "notelp = '" + tfNomorTelepon.getText() + "', "
                + "alamat = '" + taAlamat.getText() + "' "
                + "WHERE nim = '" + tfNIM.getText() + "'";

        st.executeUpdate(sql);
        JOptionPane.showMessageDialog(null, "Data berhasil diperbarui");
        tampilData();
        clearForm();
      }
    } catch (Exception e) {
      JOptionPane.showMessageDialog(this, e.getMessage());
    }

    }

    /**
     * @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(FormBiodata.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
      } catch (InstantiationException ex) {

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

java.util.logging.Logger.getLogger(FormBiodata.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
```

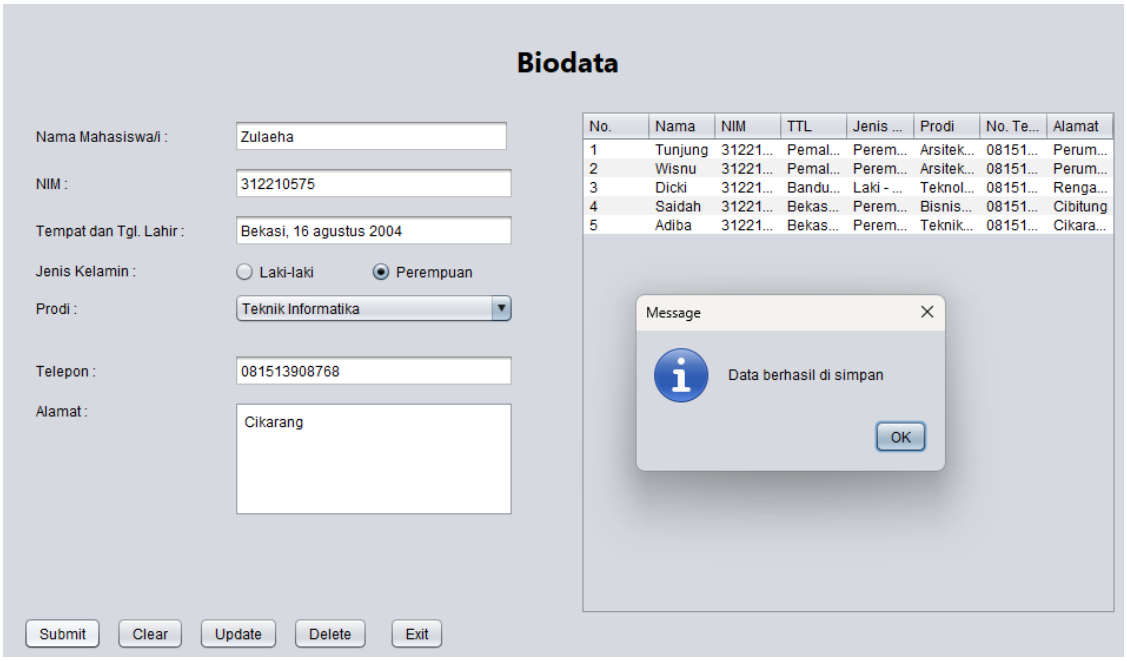
```
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(FormBiodata.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 FormBiodata().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify
    private javax.swing.JButton btnClear;
    private javax.swing.JButton btnDelete;
    private javax.swing.JButton btnExit;
    private javax.swing.JButton btnSubmit;
    private javax.swing.JButton btnUpdate;
    private javax.swing.ButtonGroup buttonGroup1;
    private javax.swing.JComboBox<String> cmbProdi;
    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.JScrollPane jScrollPane1;
    private javax.swing.JScrollPane jScrollPane2;
    private javax.swing.JRadioButton rbLaki;
    private javax.swing.JRadioButton rbPerempuan;
    private javax.swing.JTextArea taAlamat;
    private javax.swing.JTable tbl_biodata;
    private javax.swing.JTextField tfNIM;
    private javax.swing.JTextField tfNama;
    private javax.swing.JTextField tfNomorTelepon;
    private javax.swing.JTextField tfTTL;
    // End of variables declaration
}
```

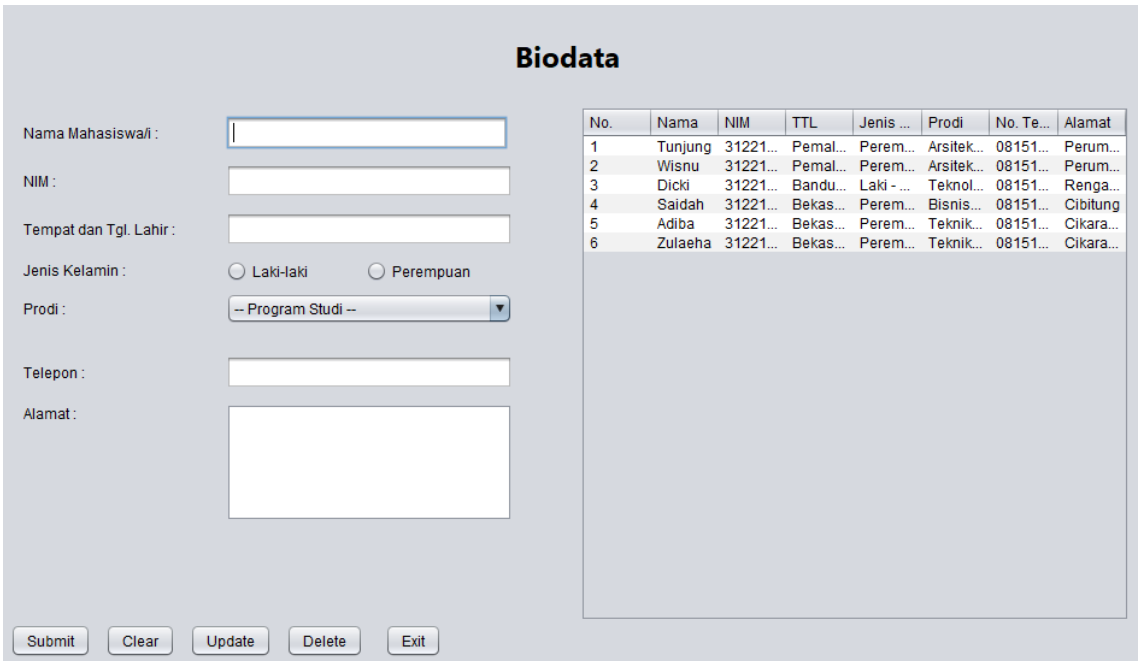
- **DESAIN**



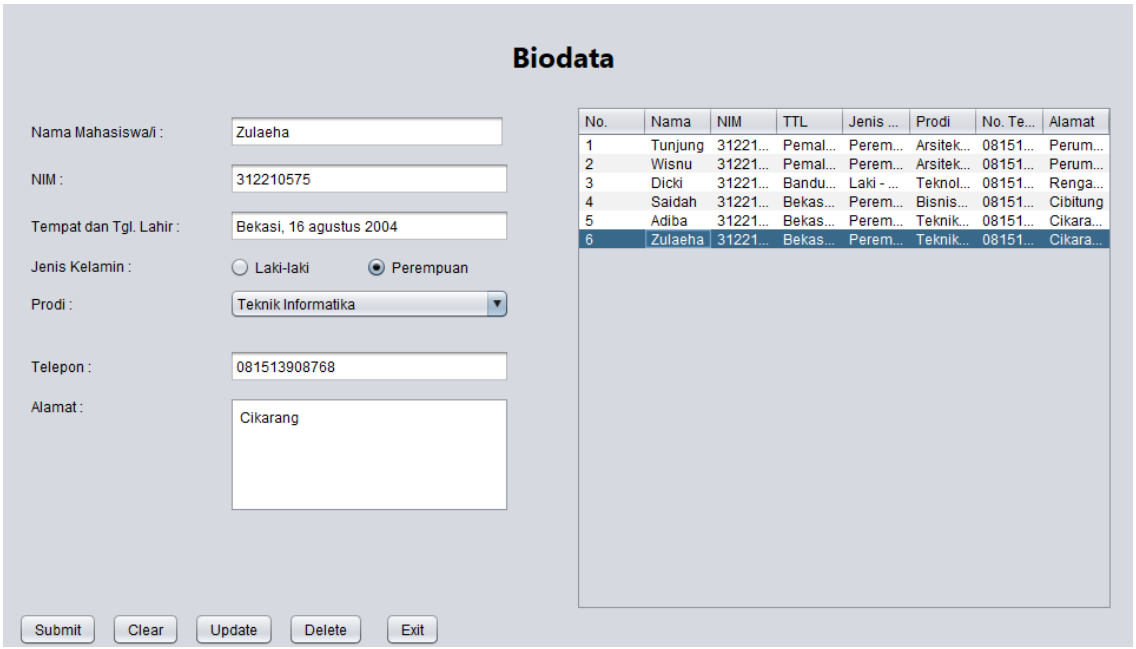
1. Koneksi

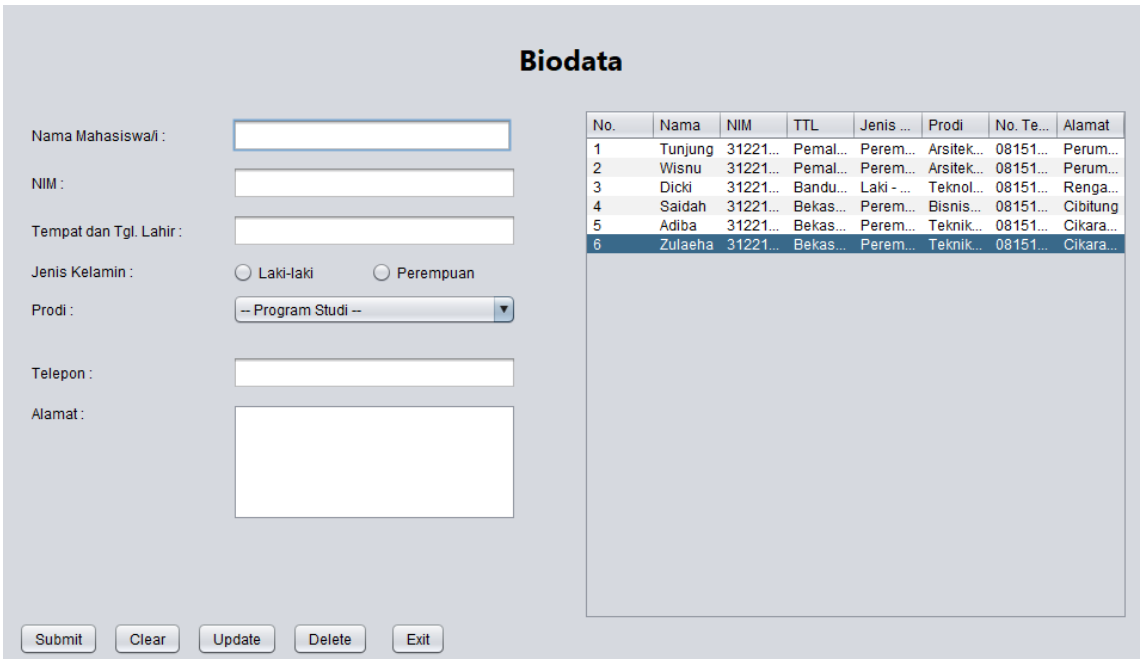
2. Tambah Data


Biodata
Nama Mahasiswa/i :
Zulaeha
NIM :
312210575
Tempat dan Tgl. Lahir :
Bekasi, 16 agustus 2004
Jenis Kelamin :
Laki-laki
Perempuan
Prodi :
Teknik Informatika
Telepon :
081513908768
Alamat :
Cikarang
Submit
Clear
Update
Delete
Exit
No. Nama NIM TTL Jenis ... Prodi No. Te... Alamat
1 Tunjung 31221... Pemal... Perem... Arsitek... 08151... Perum...
2 Wisnu 31221... Pemal... Perem... Arsitek... 08151... Perum...
3 Dicki 31221... Bandu... Laki - ... Teknol... 08151... Renga...
4 Saidah 31221... Bekas... Perem... Bisnis... 08151... Cibitung
5 Adiba 31221... Bekas... Perem... Teknik... 08151... Cikara...
Message
Data berhasil di simpan
OK

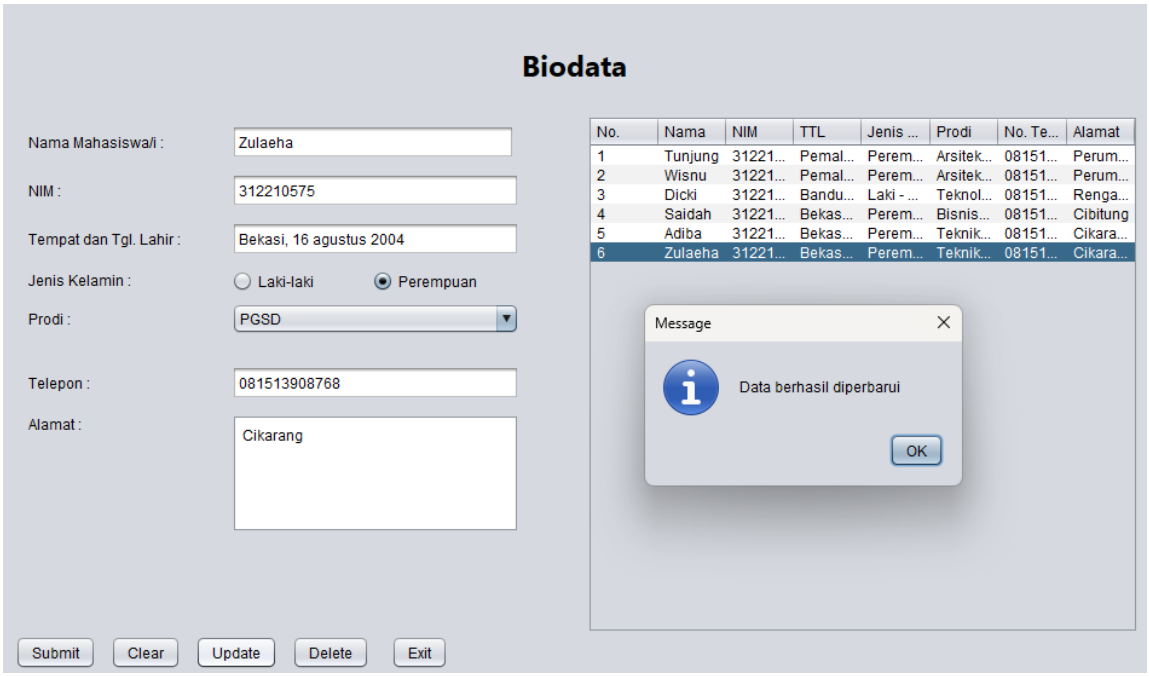

Biodata
Nama Mahasiswa/i :
NIM :
Tempat dan Tgl. Lahir :
Jenis Kelamin :
Laki-laki
Perempuan
Prodi :
-- Program Studi --
Telepon :
Alamat :
Submit
Clear
Update
Delete
Exit
No. Nama NIM TTL Jenis ... Prodi No. Te... Alamat
1 Tunjung 31221... Pemal... Perem... Arsitek... 08151... Perum...
2 Wisnu 31221... Pemal... Perem... Arsitek... 08151... Perum...
3 Dicki 31221... Bandu... Laki - ... Teknol... 08151... Renga...
4 Saidah 31221... Bekas... Perem... Bisnis... 08151... Cibitung
5 Adiba 31221... Bekas... Perem... Teknik... 08151... Cikara...
6 Zulaeha 31221... Bekas... Perem... Teknik... 08151... Cikara...

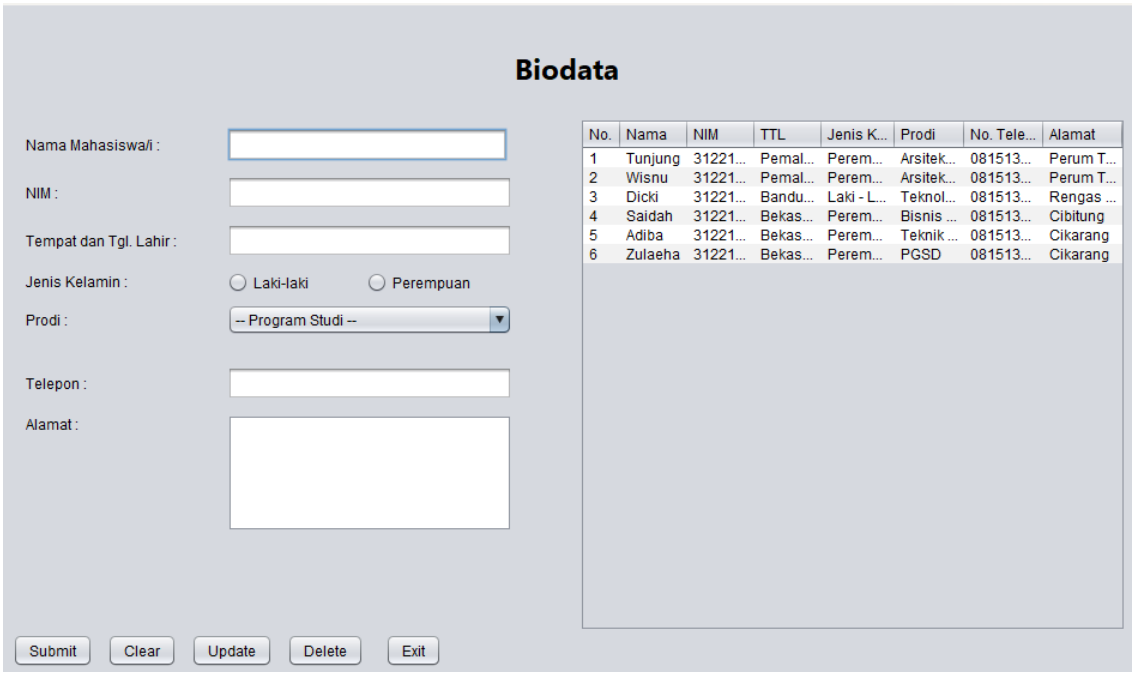
3. Clear data



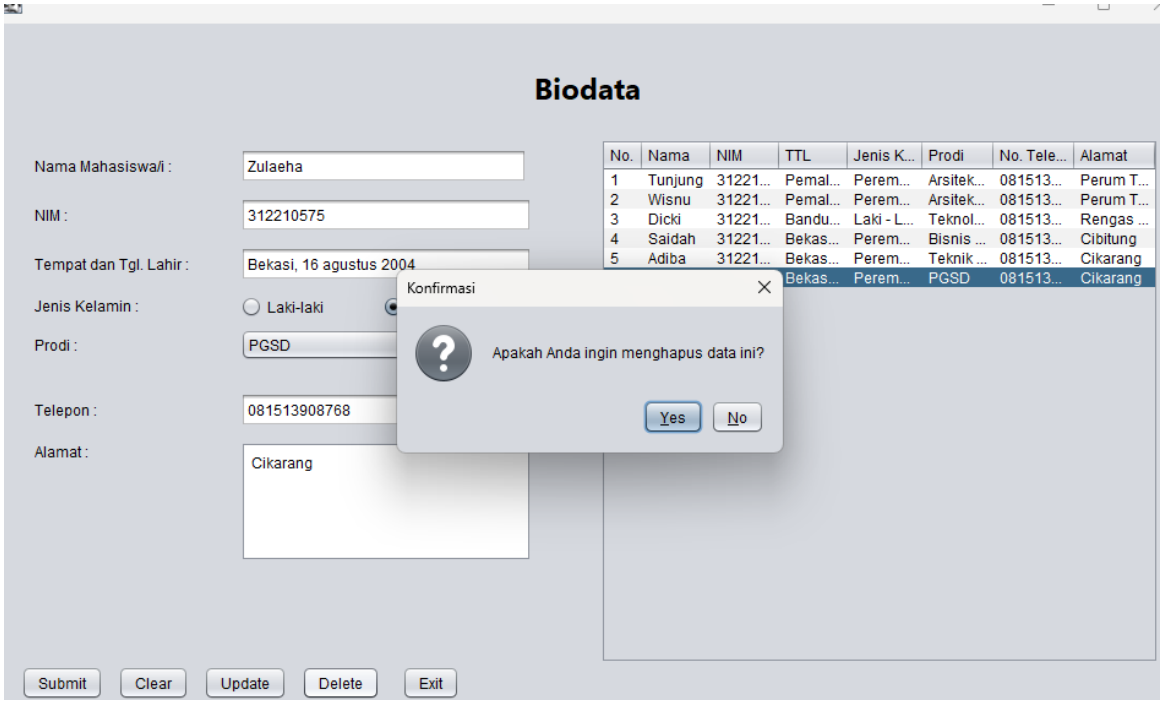


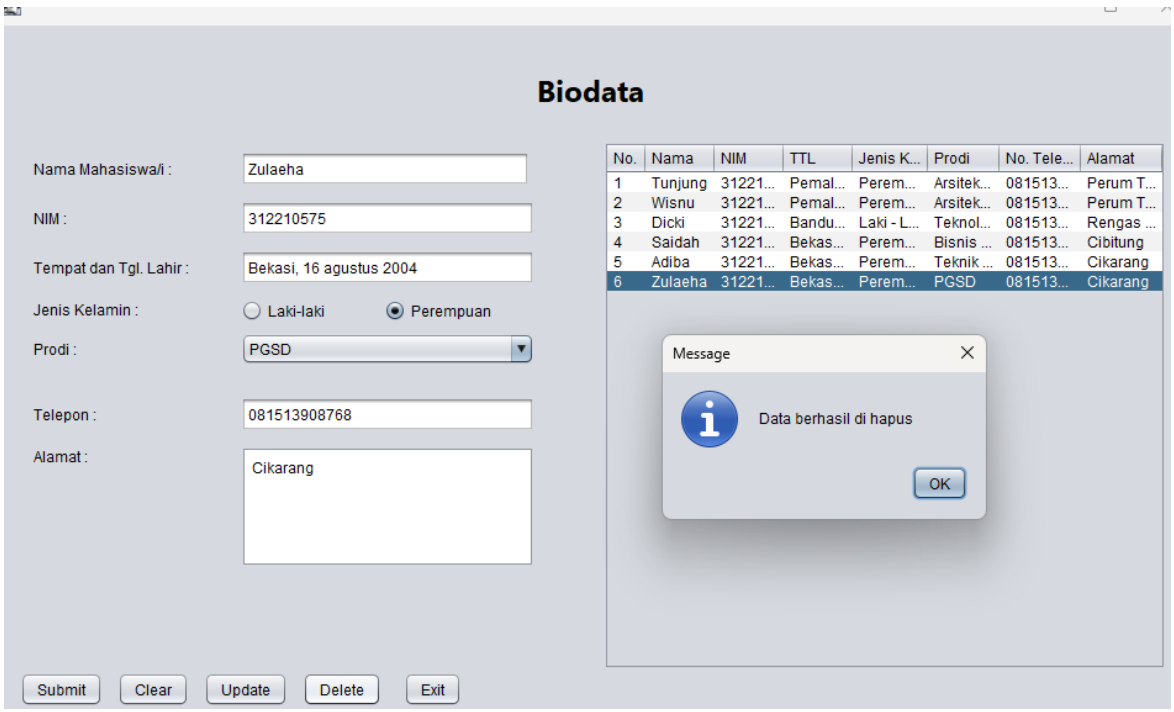
4. Update Data





5. Delete data


Biodata
Nama Mahasiswa/i :
Zulaeha
NIM :
312210575
Tempat dan Tgl. Lahir :
Bekasi, 16 agustus 2004
Jenis Kelamin :
Laki-laki
Prodi :
PGSD
Telepon :
081513908768
Alamat :
Cikarang
No. Nama NIM TTL Jenis K... Prodi No. Tele... Alamat
1 Tunjung 31221... Pemal... Perem... Arsitek... 081513... Perum T...
2 Wisnu 31221... Pemal... Perem... Arsitek... 081513... Perum T...
3 Dicki 31221... Bandu... Laki - L... Teknol... 081513... Rengas ...
4 Saidah 31221... Bekas... Perem... Bisnis ... 081513... Cibitung
5 Adiba 31221... Bekas... Perem... Teknik ... 081513... Cikarang
6 Zulaeha 31221... Bekas... Perem... PGSD 081513... Cikarang
Konfirmasi
Apakah Anda ingin menghapus data ini?
Yes
No
Submit
Clear
Update
Delete
Exit


Biodata
Nama Mahasiswa/i :
Zulaeha
NIM :
312210575
Tempat dan Tgl. Lahir :
Bekasi, 16 agustus 2004
Jenis Kelamin :
Laki-laki
Perempuan
Prodi :
PGSD
Telepon :
081513908768
Alamat :
Cikarang
No. Nama NIM TTL Jenis K... Prodi No. Tele... Alamat
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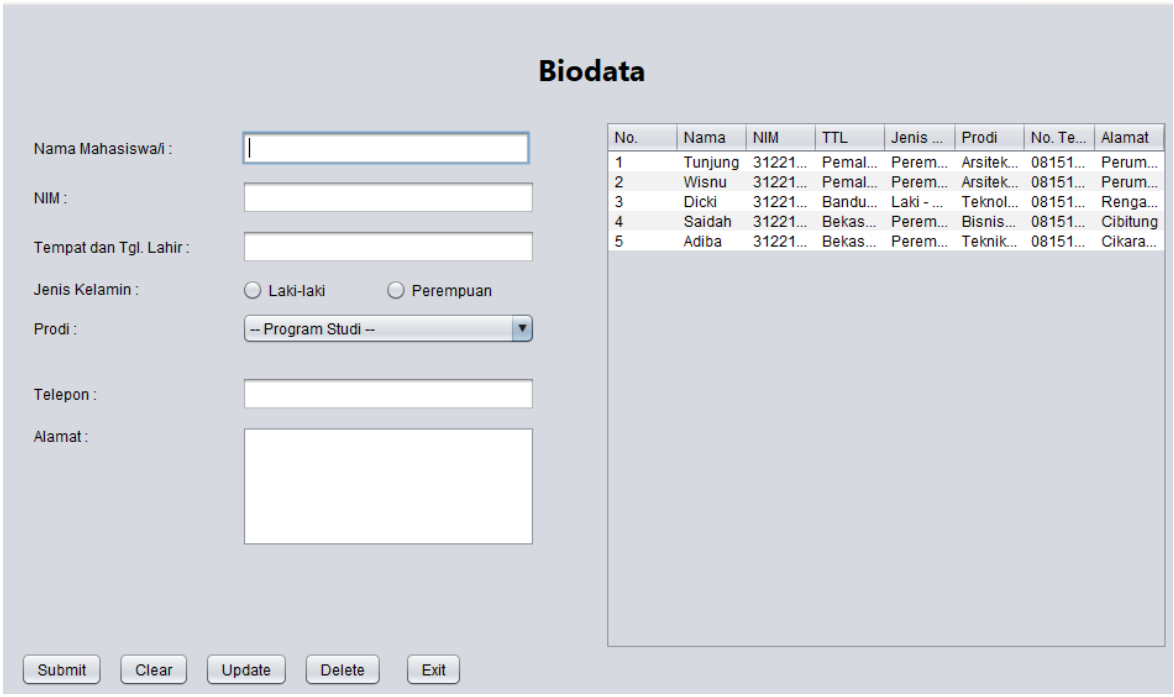
2 Wisnu 31221... Pemal... Perem... Arsitek... 081513... Perum T...
3 Dicki 31221... Bandu... Laki - L... Teknol... 081513... Rengas ...
4 Saidah 31221... Bekas... Perem... Bisnis ... 081513... Cibitung
5 Adiba 31221... Bekas... Perem... Teknik ... 081513... Cikarang
6 Zulaeha 31221... Bekas... Perem... PGSD 081513... Cikarang
Message
Data berhasil di hapus
OK
Submit
Clear
Update
Delete
Exit


Biodata
Nama Mahasiswa/i :
NIM :
Tempat dan Tgl. Lahir :
Jenis Kelamin :
Laki-laki
Perempuan
Prodi :
-- Program Studi --
Telepon :
Alamat :
No. Nama NIM TTL Jenis ... Prodi No. Te... Alamat
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2 Wisnu 31221... Pemal... Perem... Arsitek... 08151... Perum...
3 Dicki 31221... Bandu... Laki - ... Teknol... 08151... Renga...
4 Saidah 31221... Bekas... Perem... Bisnis... 08151... Cibitung
5 Adiba 31221... Bekas... Perem... Teknik... 08151... Cikara...
Submit
Clear
Update
Delete
Exit