

Jl. Ranggagading No.1 Bogor 16123 Telp (0251) 8381112-8358787

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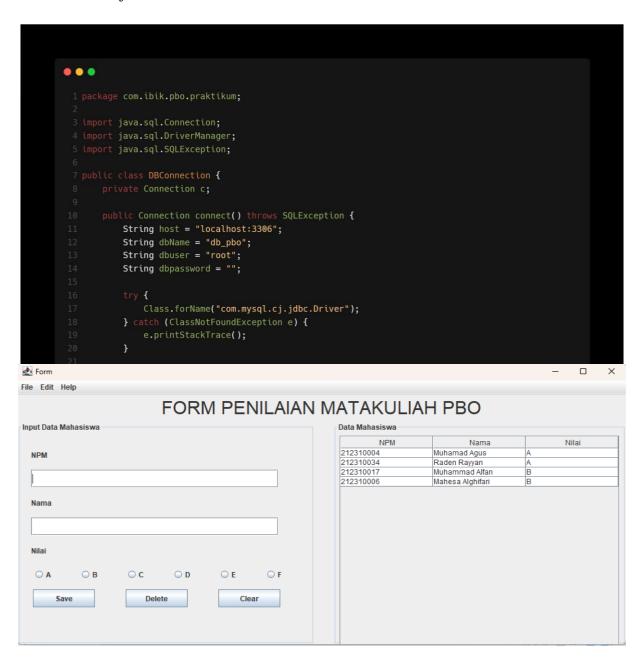
LEMBAR JAWABAN TUGAS

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DBConnection.java





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```
FormPage.java
package com.ibik.pbo.praktikum;
import java.awt.Font;
import java.awt.BorderLayout;
import java.awt.FlowLayout;
import java.awt.Dimension;
import java.awt.EventQueue;
import javax.swing.BorderFactory;
import javax.swing.ButtonGroup;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JMenu;
import javax.swing.JMenuBar;
import javax.swing.JMenuItem;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JRadioButton;
import javax.swing.JScrollPane;
import javax.swing.JTable;
import javax.swing.JTextField;
import javax.swing.WindowConstants;
import javax.swing.border.Border;
import javax.swing.table.DefaultTableModel;
import java.awt.event.MouseEvent;
import java.awt.event.MouseListener;
import javax.swing.event.MouseInputAdapter;
import javax.swing.event.MouseInputListener;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.util.Arrays;
import java.util.List;
public class FormPage extends JFrame {
   private JTable jt;
      public FormPage() {
        setVisible(true);
        pack();
        setLocationRelativeTo(null);
        setSize(1000, 480);
        setTitle("Form");
        setDefaultCloseOperation(WindowConstants.EXIT ON CLOSE);
        GenerateUI(this);
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    new FormPage();
                } catch (Exception e) {
                    e.printStackTrace();
```



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}

```
});
    }
    public void GenerateUI(FormPage frame) {
        // Menu
        JMenuBar menuBar = new JMenuBar();
        JMenu fileMenu = new JMenu("File");
        JMenu editMenu = new JMenu("Edit");
        JMenu helpMenu = new JMenu("Help");
        menuBar.add(fileMenu);
        menuBar.add(editMenu);
        menuBar.add(helpMenu);
        JMenuItem item1 = new JMenuItem("Open Student Data");
        JMenuItem item3 = new JMenuItem("Exit");
        fileMenu.add(item1);
        fileMenu.add(item3);
        frame.setJMenuBar(menuBar);
        // Main Panel
        JPanel mainPanel = new JPanel();
        mainPanel.setLayout(new BorderLayout());
        frame.setContentPane(mainPanel);
        // Header Title
        JPanel headerPanel = new JPanel();
        headerPanel.setLayout (new FlowLayout (FlowLayout. CENTER));
        mainPanel.add(headerPanel, BorderLayout.NORTH);
        JLabel headerTitle = new JLabel ("FORM PENILAIAN MATAKULIAH PBO");
        headerTitle.setFont(new Font("Arial", Font.PLAIN, 30));
        headerPanel.add(headerTitle);
        // Start of Form
        Border lftPanelBorder = BorderFactory.createTitledBorder("Input
Data Mahasiswa");
        JPanel leftPanel = new JPanel();
        leftPanel.setLayout(null);
        leftPanel.setPreferredSize(new Dimension(480, 480));
        mainPanel.add(leftPanel, BorderLayout.WEST);
        // Start of Panel Content
        // // Input NPM
        JLabel npmLabel = new JLabel("NPM");
        npmLabel.setBounds(22, 40, 80, 30);
        leftPanel.add(npmLabel);
        final JTextField inputNPM = new JTextField();
        inputNPM.setBounds(22, 80, 400, 30);
        leftPanel.add(inputNPM);
        // // Input Nama
        JLabel namaLabel = new JLabel("Nama");
        namaLabel.setBounds(22, 120, 80, 30);
        leftPanel.add(namaLabel);
```



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final JTextField inputNama = new JTextField();

```
inputNama.setBounds(22, 160, 400, 30);
        leftPanel.add(inputNama);
        // // Input Nilai
        JLabel gradeLabel = new JLabel("Nilai");
        gradeLabel.setBounds(22, 200, 80, 30);
        leftPanel.add(gradeLabel);
        final JRadioButton gradeA = new JRadioButton("A");
        gradeA.setBounds(25, 240, 50, 30);
        leftPanel.add(gradeA);
        final JRadioButton gradeB = new JRadioButton("B");
        gradeB.setBounds(100, 240, 50, 30);
        leftPanel.add(gradeB);
        final JRadioButton gradeC = new JRadioButton("C");
        gradeC.setBounds(175, 240, 50, 30);
        leftPanel.add(gradeC);
        final JRadioButton gradeD = new JRadioButton("D");
        gradeD.setBounds(250, 240, 50, 30);
        leftPanel.add(gradeD);
        final JRadioButton gradeE = new JRadioButton("E");
        gradeE.setBounds(325, 240, 50, 30);
        leftPanel.add(gradeE);
        final JRadioButton gradeF = new JRadioButton("F");
        gradeF.setBounds(400, 240, 50, 30);
        leftPanel.add(gradeF);
        ButtonGroup bg = new ButtonGroup();
        bg.add(gradeA);
        bg.add(gradeB);
        bg.add(gradeC);
        bg.add(gradeD);
        bg.add(gradeE);
        bg.add(gradeF);
        // // Button CRUD Data
        JButton btnSave = new JButton("Save");
        btnSave.setBounds(25, 280, 100, 30);
        ActionListener actionSave = new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                Students student = new Students();
                if (!inputNPM.getText().isEmpty()) {
                    student.setNpm(inputNPM.getText());
                } else {
                    JOptionPane.showMessageDialog(null, "Data tidak boleh
kosong! (NPM)", "Alert!",
                            JOptionPane. ERROR MESSAGE);
                if (!inputNama.getText().isEmpty()) {
                    student.setFullname(inputNama.getText());
                } else {
```



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```
JOptionPane.showMessageDialog(null, "Data tidak boleh
kosong! (Nama)", "Alert!",
                             JOptionPane. ERROR MESSAGE);
                if (gradeA.isSelected()) {
                    student.setScore(gradeA.getText());
                } else if (gradeB.isSelected()) {
                    student.setScore(gradeB.getText());
                } else if (gradeC.isSelected()) {
                    student.setScore(gradeC.getText());
                } else if (gradeD.isSelected()) {
                    student.setScore(gradeD.getText());
                } else if (gradeE.isSelected()) {
                    student.setScore(gradeE.getText());
                } else if (gradeF.isSelected()) {
                    student.setScore(gradeF.getText());
                }
                StudentsDAO stdDAO = new StudentsDAO();
                    stdDAO.saved(student);
                    JOptionPane.showMessageDialog(null, "Successfully
Added!", "Score Board",
                             JOptionPane. INFORMATION MESSAGE);
                } catch (Exception e1) {
                    // TODO Auto-generated catch block
                    JOptionPane.showMessageDialog(null, "Error: " +
e1.getMessage());
                    e1.printStackTrace();
        };
        btnSave.addActionListener(actionSave);
        leftPanel.add(btnSave);
        JButton btnDelete = new JButton("Delete");
        btnDelete.setBounds(175, 280, 100, 30);
        leftPanel.add(btnDelete);
        JButton btnClear = new JButton("Clear");
        btnClear.setBounds(325, 280, 100, 30);
        leftPanel.add(btnClear);
        // End of Panel Content
        leftPanel.setBorder(lftPanelBorder);
        // End of Form
        // Table
        Border rPanelBorder = BorderFactory.createTitledBorder("Data
Mahasiswa");
        JPanel rightPanel = new JPanel();
        rightPanel.setLayout(new FlowLayout(FlowLayout. CENTER));
        mainPanel.add(rightPanel, BorderLayout.EAST);
        DefaultTableModel tableModel = FetchDataSelect();
        jt = new JTable(tableModel) {
            public boolean isCellEditable(int row, int column) {
                return false;
            };
```



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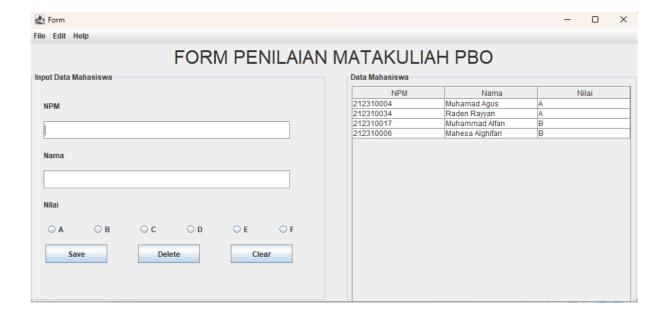
};

```
jt.setBounds(22, 40, 480, 450);
    jt.addMouseListener(new MouseListener() {
              @Override
              public void mouseReleased(MouseEvent e) {
                     // TODO Auto-generated method stub
              @Override
              public void mousePressed(MouseEvent e) {
                     // TODO Auto-generated method stub
              @Override
              public void mouseExited(MouseEvent e) {
                     // TODO Auto-generated method stub
              @Override
              public void mouseEntered(MouseEvent e) {
                    jt.setModel(FetchDataSelect());
              @Override
             public void mouseClicked(MouseEvent e) {
            GetSelectedData();
        });
    JScrollPane sp = new JScrollPane(jt);
    rightPanel.add(sp);
    rightPanel.setBorder(rPanelBorder);
}
public DefaultTableModel FetchDataSelect() {
    DefaultTableModel tableModel = new DefaultTableModel();
    tableModel.addColumn("NPM");
    tableModel.addColumn("Nama");
    tableModel.addColumn("Nilai");
    StudentsDAO stdDao = new StudentsDAO();
    try {
        List<Students> students = stdDao.findAll();
        for (int i = 0; i < students.size(); i++) {</pre>
            String data[] = {
                    students.get(i).getNpm(),
                     students.get(i).getFullname(),
                    students.get(i).getScore()
            };
            tableModel.addRow(data);
    } catch (Exception e) {
```



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```
JOptionPane.showMessageDialog(null, "Error: " + e.getMessage(),
"Alert!", JOptionPane. ERROR MESSAGE);
        return tableModel;
    }
   private void GetSelectedData() {
      DefaultTableModel jtModel = (DefaultTableModel) jt.getModel();
        int selectedRow = jt.getSelectedRow();
        System.out.println("You just click row " + selectedRow);
        String npm = jtModel.getValueAt(selectedRow,
                0).toString();
        String name = jtModel.getValueAt(selectedRow,
                1).toString();
        String score = jtModel.getValueAt(selectedRow, 2).toString();
        System.out.println("Data:");
        System.out.println("NPM: " + npm);
        System.out.println("Fullname: " + name);
        System.out.println("Score: " + score);
    }
}
```

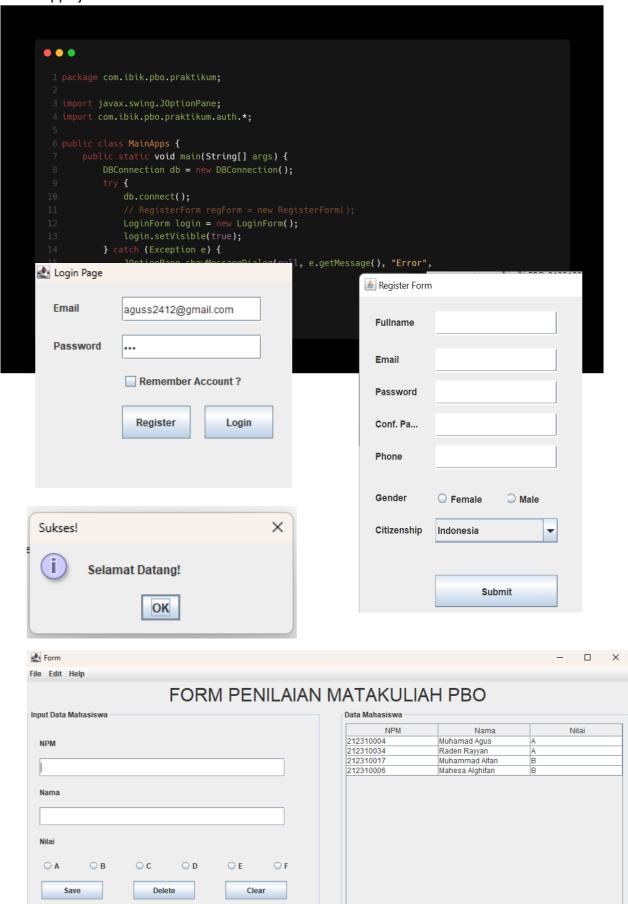




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MainApps.java





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Students.java

```
• • •
 3 public class Students {
      private Integer id;
      private String npm;
private String fullname;
private String score;
      public void setNpm(String npm) {
       public String getNpm() {
       public void setFullname(String fullname) {
       public String getFullname() {
        public void setScore(String score) {
       public String getScore() {
       public void setId(Integer id) {
       public Integer getId() {
```

▲ Login Page	
Email	aguss2412@gmail.com
Password	•••
	Remember Account ?
	Register Login



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StudentsDAO

```
.
  1 package com.ibik.pbo.praktikum;
       private String queryInsert = "insert into students (npm, fullname, score) "
       private String querySelectAll = "select * from students";
       public void saved(Students students) throws Exception {
           PreparedStatement psInsert = c.prepareStatement(queryInsert);
           List<Students> hasil = new ArrayList<Students>();
           PreparedStatement psFindAll = c.prepareStatement(querySelectAll);
           while (rs.next()) {
       private Students konversiResultSet(ResultSet rs) throws SQLException {
           Students students = new Students();
           students.setId(rs.getInt("id"));
           students.setNpm(rs.getString("npm"));
           students.setFullname(rs.getString("fullname"));
           students.setScore(rs.getString("score"));
```



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Admin

```
package com.ibik.pbo.praktikum.auth;
public class Admin {
   private Integer id;
   private String email;
   private String password;
   private String fullname;
   private String phone;
   private String gender;
   private String citizenship;
   public String getEmail() {
       return email;
   public void setEmail(String email) {
        this.email = email;
   public String getPassword() {
       return password;
   public void setPassword(String password) {
       this.password = password;
   public String getFullname() {
       return fullname;
   public void setFullname(String fullname) {
       this.fullname = fullname;
   public String getPhone() {
       return phone;
   public void setPhone(String phone) {
       this.phone = phone;
   public String getGender() {
       return gender;
   public void setGender(String gender) {
        this.gender = gender;
   public String getCitizenship() {
       return citizenship;
   public void setCitizenship(String citizenship) {
        this.citizenship = citizenship;
   public Integer getId() {
       return id;
   public void setId(Integer id) {
       this.id = id;
```

🛃 Login Page	
Email	aguss2412@gmail.com
Password	•••
	Remember Account ?
	Register Login



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LoginDAO



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LoginForm

```
package com.ibik.pbo.praktikum.auth;
import java.awt.BorderLayout;
import java.awt.Color;
import javax.swing.JButton;
import javax.swing.JCheckBox;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JPasswordField;
import javax.swing.JTextField;
import javax.swing.SwingConstants;
import javax.swing.WindowConstants;
import com.ibik.pbo.praktikum.FormPage;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
public class LoginForm extends JFrame {
   public LoginForm()
        setVisible(true);
        pack();
        setLocationRelativeTo(null);
        setSize(400, 400);
        setTitle("Login Page");
        setDefaultCloseOperation(WindowConstants.EXIT ON CLOSE);
        GenerateUI(this);
   public static void main(String[] args) {
        new LoginForm();
   private void GenerateUI(LoginForm frame) {
        JPanel mainPanel = new JPanel();
        mainPanel.setLayout(new BorderLayout());
        frame.setContentPane(mainPanel);
        JPanel panel1 = new JPanel();
        panel1.setLayout(null);
        mainPanel.add(panel1, BorderLayout.NORTH);
        JLabel lblEmail = new JLabel("Email");
        lblEmail.setBounds(22, 23, 80, 16);
        panel1.add((lblEmail));
        final JTextField textEmail = new JTextField();
        textEmail.setBounds(105, 18, 169, 30);
        panel1.add(textEmail);
        JLabel lblPassword = new JLabel("Password");
        lblPassword.setBounds(22, 69, 61, 16);
        panel1.add(lblPassword);
        final JPasswordField textPassword = new JPasswordField();
        textPassword.setBounds(105, 64, 169, 30);
        panel1.add(textPassword);
        JCheckBox chkRemember = new JCheckBox("Remember Account ?");
        chkRemember.setBounds(105, 100, 169, 40);
        panel1.add(chkRemember);
        JButton btnRegister = new JButton("Register");
        btnRegister.setBounds(105, 150, 83, 40);
        btnRegister.addActionListener(new ActionListener() {
            @Override
            public void actionPerformed(ActionEvent e) {
                RegisterForm regPage = new RegisterForm();
                regPage.setVisible(true);
```



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```
dispose();
          });
         panel1.add(btnRegister);
         JButton btnLogin = new JButton("Login");
         btnLogin.setBounds(205, 150, 83, 40);
         btnLogin.addActionListener(new ActionListener() {
              @Override
              public void actionPerformed(ActionEvent e) {
                  String mail = textEmail.getText();
                  String password = new String(textPassword.getPassword());
                  LoginDAO login = new LoginDAO();
                  Admin <u>adm</u> = new Admin();
                  try
                      if (login.authLogin(mail, password)) {
                          JOptionPane.showMessageDialog(null, "Selamat Datang!", "Sukses!",
                                  JOptionPane.INFORMATION_MESSAGE);
                          // Go To Form
                          FormPage form = new FormPage();
                          form.setVisible(true);
                          dispose();
                      } else {
                          JOptionPane.showMessageDialog(null, "Login Gagal!", "Alert!",
 JOptionPane. ERROR MESSAGE);
                  } catch (Exception e1) {
                      // TODO Auto-generated catch block
                      JOptionPane.showConfirmDialog(null, "Login Gagal. Error: " +
 e1.getMessage());
                      e1.printStackTrace();
          });
         panel1.add(btnLogin);
         JLabel lblCopyright = new JLabel("copyright IBIK @ 2022", SwingConstants.CENTER);
         lblCopyright.setBackground(Color.BLUE);
          lblCopyright.setSize(300, 50);
         mainPanel.add(lblCopyright, BorderLayout.SOUTH);
          frame.add(panel1);
🖄 Login Page
  Email
              aguss2412@gmail.com
  Password
               Remember Account ?
                 Register
                                Login
```



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RegisterDAO

```
package com.ibik.pbo.praktikum.auth;

import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQlException;
import java.sql.SQlException;
import java.util.ArrayList;
import java.util.ArrayList;
import com.ibik.pbo.praktikum.DBConnection;

public class RegisterDAO {

private String queryRegister = "insert into admin (email, password, fullname, phone, gender, citizenship) "

+ "values (?, ?, ?, ?, ?, ?)";

public void savedRegister(Admin admin) throws Exception {
    Connection c = new DBConnection().connect();

PreparedStatement psInsert = c.prepareStatement(queryRegister);

psInsert.setString(1, admin.getEmail());
psInsert.setString(3, admin.getPassword());
psInsert.setString(3, admin.getPonder());
psInsert.setString(4, admin.getPonder());
psInsert.setString(6, admin.getCmillcaner());
psInsert.setString(6, admin.getGender());
c.close();
}
}
```



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RegisterForm

```
package com.ibik.pbo.praktikum.auth;
import java.awt.BorderLayout;
import javax.swing.ButtonGroup;
import javax.swing.JButton;
import javax.swing.JComboBox;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JPasswordField;
import javax.swing.JRadioButton;
import javax.swing.JTextField;
import javax.swing.WindowConstants;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.util.ArrayList;
public class RegisterForm extends JFrame {
    public RegisterForm() {
        setVisible(true);
        pack();
        setLocationRelativeTo(null);
        setSize(500, 500);
        setTitle("Register Form");
        setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
        GenerateUI(this);
    public static void main(String[] args) {
        new RegisterForm();
    private void GenerateUI(RegisterForm frame) {
        JPanel mainPanel = new JPanel();
        mainPanel.setLayout(new BorderLayout());
        frame.setContentPane(mainPanel);
        JPanel panel1 = new JPanel();
        panel1.setLayout(null);
        mainPanel.add(panell, BorderLayout.NORTH);
        JLabel lblFullName = new JLabel("Fullname");
        lblFullName.setBounds(22, 23, 80, 16);
        panel1.add(lblFullName);
        final JTextField textFullName = new JTextField();
        textFullName.setBounds(105, 18, 169, 30);
        textFullName.setEditable(true);
        panel1.add(textFullName);
        JLabel lblEmail = new JLabel("Email");
        lblEmail.setBounds(22, 69, 61, 16);
        panel1.add(lblEmail);
        final JTextField textEmail = new JTextField();
        textEmail.setBounds(105, 64, 169, 30);
        panel1.add(textEmail);
        JLabel lblPassword = new JLabel("Password");
        lblPassword.setBounds(22, 109, 61, 16);
        panel1.add(lblPassword);
        final JPasswordField textPassword = new JPasswordField();
        textPassword.setBounds(105, 104, 169, 30);
        panel1.add(textPassword);
        JLabel lblRePassword = new JLabel("Conf. Password");
        lblRePassword.setBounds(22, 149, 61, 16);
        panel1.add(lblRePassword);
```



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final JPasswordField textRePassword = new JPasswordField();

```
textRePassword.setBounds(105, 144, 169, 30);
        panel1.add(textRePassword);
        JLabel lblPhone = new JLabel("Phone");
        lblPhone.setBounds(22, 189, 61, 16);
        panel1.add(lblPhone);
        final JTextField txtPhone = new JTextField();
        txtPhone.setBounds(105, 184, 169, 30);
        panel1.add(txtPhone);
        JLabel lblGender = new JLabel("Gender");
        lblGender.setBounds(22, 240, 61, 16);
        panel1.add(lblGender);
        final JRadioButton radioGender1 = new JRadioButton("Female");
        radioGender1.setBounds(105, 235, 100, 30);
        panel1.add(radioGender1);
        final JRadioButton radioGender2 = new JRadioButton("Male");
        radioGender2.setBounds(200, 235, 100, 30);
        panel1.add(radioGender2);
        ButtonGroup bg = new ButtonGroup();
        bg.add(radioGender1);
        bg.add(radioGender2);
        JLabel lblCityzen = new JLabel("Citizenship");
        lblCityzen.setBounds(22, 280, 100, 16);
        panel1.add(lblCityzen);
        String country[] = {
                "Indonesia",
                "India",
                "Australia",
                "U.S.A",
                "England",
                "New Zealand"
        };
        final JComboBox selectCitizen = new JComboBox<>(country);
        selectCitizen.setBounds(105, 275, 169, 30);
        panel1.add(selectCitizen);
        JButton btnSubmit = new JButton("Submit");
        btnSubmit.setBounds(105, 345, 169, 40);
        ActionListener actionSubmit = new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                // ArrayList<String> data = new ArrayList<String>();
                Admin admins = new Admin();
                if (!textFullName.getText().isEmpty()) {
                    // data.add(textFullName.getText());
                    admins.setFullname(textFullName.getText());
                } else {
                    JOptionPane.showMessageDialog(null,
                            "Data tidak boleh kosong (Nama Kosong). Silakan periksa kembali
isian anda.",
                            "Alert!", JOptionPane. ERROR MESSAGE);
                }
                if (!textEmail.getText().isEmpty()) {
                    // data.add(textEmail.getText());
                    admins.setEmail(textEmail.getText());
                    JOptionPane.showMessageDialog(null,
                            "Data tidak boleh kosong (Email Kosong). Silakan periksa kembali
isian anda.",
                            "Alert!", JOptionPane. ERROR MESSAGE);
                }
```



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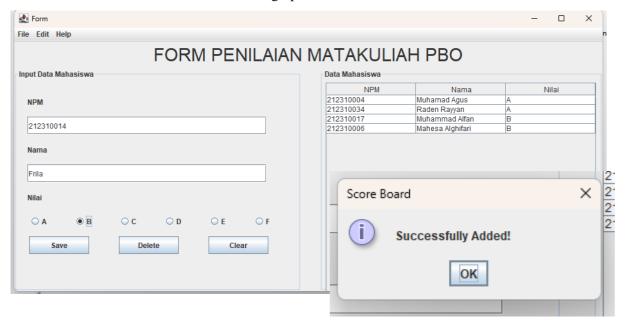
```
String passText = new String(textPassword.getPassword());
                String confPass = new String(textRePassword.getPassword());
                if (!passText.isEmpty()) {
                    if (!passText.equals(confPass)) {
                         JOptionPane.showMessageDialog(null,
                                 "Password tidak sesuai.\nHarap periksa kembali Password dan
Conf. Password", "Alert!",
                                 JOptionPane.ERROR_MESSAGE);
                    } else {
                        admins.setPassword(passText);
                } else {
                    JOptionPane.showMessageDialog(null, "Kolom Password harus diisi",
"Alert!",
                             JOptionPane.ERROR MESSAGE);
                if (!txtPhone.getText().isEmpty()) {
                     // data.add(txtPhone.getText());
                    admins.setPhone(txtPhone.getText());
                    JOptionPane.showMessageDialog(null,
                             "Data tidak boleh kosong (No. Telepon Kosong). Silakan periksa
kembali isian anda.",
                            "Alert!", JOptionPane. ERROR_MESSAGE);
                if (radioGender1.isSelected()) {
                    // data.add(radioGender1.getText());
                    admins.setGender("F");
                } else if (radioGender2.isSelected()) {
                     // data.add(radioGender2.getText());
                    admins.setGender("M");
                // data.add(selectCitizen.getSelectedItem().toString());
                admins.setCitizenship(selectCitizen.getSelectedItem().toString());
                RegisterDAO regDAO = new RegisterDAO();
                try {
                    regDAO.savedRegister(admins);
                } catch (Exception e1) {
                    // TODO Auto-generated catch block
                    JOptionPane.showMessageDialog(null, "Error: " + e1.getMessage());
                    e1.printStackTrace();
                                                           Register Form
                                                              Fullname
                LoginForm loginPage = new LoginForm();
                loginPage.setVisible(true);
                dispose();
                                                              Email
        };
        btnSubmit.addActionListener(actionSubmit);
                                                              Password
        panel1.add(btnSubmit);
                                                              Conf. Pa...
        frame.add(panel1);
                                                              Phone
                                                              Gender
                                                                         Female
                                                                                      ○ Male
                                                              Citizenship
                                                                         Indonesia
                                                                                 Submit
```



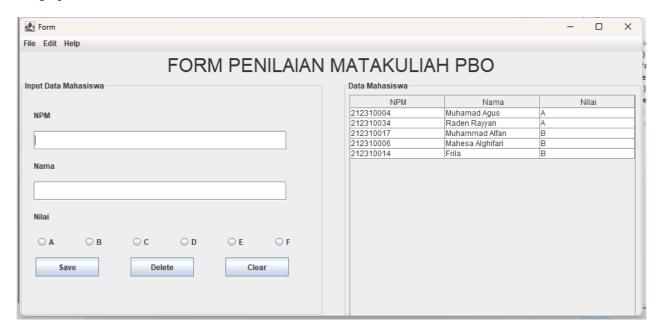
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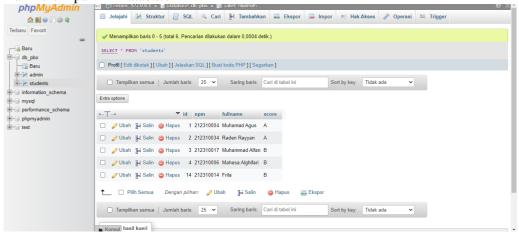
Menginput kan Data



Penginputan Berhasil



Dan Tersimpan Di Database





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