LEMBAR JAWABAN TUGAS

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DBConnection.java

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

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

public class DBConnection {
    private Connection c;

    public Connection connect() throws SQLException {
        String host = "localhost:3306";
        String dbName = "db_pbo";
        String dbuser = "root";
        String dbpassword = "";

        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
        } catch (ClassNotFoundException e) {
            e.printStackTrace();
        }

        Connection c = DriverManager.getConnection("jdbc:mysql://" + host + "/" + dbName, dbuser,
    dbpassword);

        return c;
    }

    public Connection close() throws SQLException {
        c.close();
        return c;
    }
}
```

Form — □ ✕

File   Edit   Help

FORM PENILAIAN MATAKULIAH PBO

Input Data Mahasiswa

NPM

Nama

Nilai

○ A   ○ B   ○ C   ○ D   ○ E   ○ F

| Save | Delete | Clear |

Data Mahasiswa

NPM	Nama	Nilai
212310049	Melani	A
212310034	Raden Rayyan Pratama ...	A
212310017	Muhammad Alfan	A
212310006	Mahesa Alghifari	A
212310035	Adrian Adhari	A
212310023	Muhamad Yanuar Maulana	A
212310004	Muhamad Agus	A
212310005	rahmat	A
212310019	rayan	A
212310019	rayan	A
212310005	Adjie Syeraffi Rahmat	A

FormPage.java

```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();
                }
```

```java
            }
        });
    }

    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);
```

```java
        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 {
```

```java
                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();
                try {
                    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;
            };
```

```java
        };
        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++) {
                String data[] = {
                        students.get(i).getNpm(),
                        students.get(i).getFullname(),
                        students.get(i).getScore()
                };
                tableModel.addRow(data);
            }
        } catch (Exception e) {
```

```java
                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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212310006	Mahesa Alghifari	A
212310035	Adrian Adhari	A
212310023	Muhamad Yanuar Maulana	A
212310004	Muhamad Agus	A
212310005	rahmat	A
212310019	rayan	A
212310019	rayan	A
212310005	Adjie Syeraffi Rahmat	A

MainApps.java

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

import javax.swing.JOptionPane;
import com.ibik.pbo.praktikum.auth.*;

public class MainApps {
    public static void main(String[] args) {
        DBConnection db = new DBConnection();
        try {
            db.connect();
            // RegisterForm regForm = new RegisterForm();
            LoginForm login = new LoginForm();
            login.setVisible(true);
        } catch (Exception e) {
            JOptionPane.showMessageDialog(null, e.getMessage(), "Error",
    JOptionPane.ERROR_MESSAGE);
            e.printStackTrace();
        }
    }
}
```

Register Form

Fullname	
Email	
Password	
Conf. Pa...	
Phone	
Gender	○ Female ○ Male
Citizenship	Indonesia ▼

Submit

Login Page

Email

Password

☐ Remember Account ?

Register   Login

Form

File   Edit   Help

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212310023	Muhamad Yanuar Maulana	A
212310004	Muhamad Agus	A
212310005	rahmat	A
212310019	rayan	A
212310019	rayan	A
212310005	Adjie Syeraffi Rahmat	A

Students.java

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

public class Students {
    private Integer id;
    private String npm;
    private String fullname;
    private String score;

    public void setNpm(String npm) {
        this.npm = npm;
    }

    public String getNpm() {
        return npm;
    }

    public void setFullname(String fullname) {
        this.fullname = fullname;
    }

    public String getFullname() {
        return fullname;
    }

    public void setScore(String score) {
        this.score = score;
    }

    public String getScore() {
        return score;
    }

    public void setId(Integer id) {
        this.id = id;
    }

    public Integer getId() {
        return id;
    }
}
```

Login Page

Email

Password

☐ Remember Account ?

| Register | Login |

StudentsDAO

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

import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.ArrayList;
import java.util.List;

public class StudentsDAO {

    private String queryInsert = "insert into students (npm, fullname, score) "
            + " values (?, ?, ?) ";

    private String querySelectAll = "select * from students";

    public void saved(Students students) throws Exception {
        Connection c = new DBConnection().connect();

        PreparedStatement psInsert = c.prepareStatement(queryInsert);

        psInsert.setString(1, students.getNpm());
        psInsert.setString(2, students.getFullname());
        psInsert.setString(3, students.getScore());

        psInsert.executeUpdate();

        c.close();
    }

    public List<Students> findAll() throws Exception {
        List<Students> hasil = new ArrayList<Students>();

        Connection c = new DBConnection().connect();
        PreparedStatement psFindAll = c.prepareStatement(querySelectAll);

        ResultSet rs = psFindAll.executeQuery();

        while (rs.next()) {
            Students students = konversiResultSet(rs);
            hasil.add(students);
        }

        c.close();

        return hasil;
    }

    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"));
        return students;
    }
}
```

Admin

```java
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;
    }
}
```
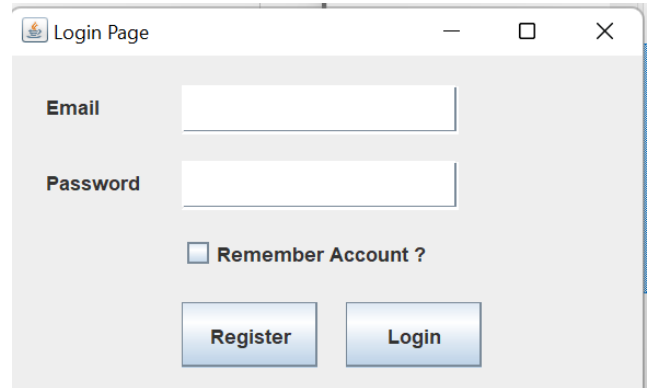
LoginDAO

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

import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.ArrayList;
import java.util.List;

import com.ibik.pbo.praktikum.DBConnection;

public class LoginDAO {
    private String queryLogin = "select * from admin where email = ? and password = ?";

    public boolean authLogin(String email, String password) throws Exception {
        boolean isUser = false;
        try {
            Connection c = new DBConnection().connect();
            PreparedStatement ps = c.prepareStatement(queryLogin);
            ps.setString(1, email);
            ps.setString(2, password);
            ResultSet result = ps.executeQuery();
            if (result.next()) {
                isUser = true;
                System.out.println("Login Success!");
            } else {
                System.out.println("Invalid username or password!");
            }
        } catch (Exception e) {
            System.out.println("Error : " + e.getMessage());
            e.printStackTrace();
        }
        return isUser;
    }
}
```

LoginForm

```java
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);
```

```java
                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 adm = 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);
    }
}
```
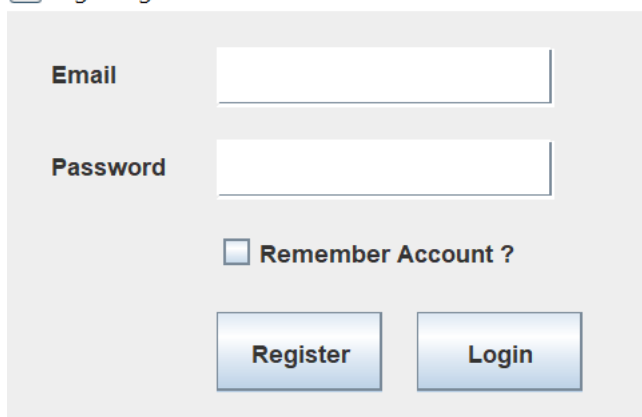
RegisterDAO

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

import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.ArrayList;
import java.util.List;

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(2, admin.getPassword());
        psInsert.setString(3, admin.getFullname());
        psInsert.setString(4, admin.getPhone());
        psInsert.setString(5, admin.getGender());
        psInsert.setString(6, admin.getCitizenship());

        psInsert.executeUpdate();

        c.close();
    }
}
```

RegisterForm

```java
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(panel1, 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);
```

```java
        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());
                } else {
                    JOptionPane.showMessageDialog(null,
                            "Data tidak boleh kosong (Email Kosong). Silakan periksa kembali
isian anda.",
                            "Alert!", JOptionPane.ERROR_MESSAGE);
                }
```

```java
            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());
            } else {
                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();
            }

            LoginForm loginPage = new LoginForm();
            loginPage.setVisible(true);
            dispose();
        }
    };
    btnSubmit.addActionListener(actionSubmit);
    panel1.add(btnSubmit);

    frame.add(panel1);
    }
}
```