PRATIKUM PEMROGRAMAN II TUGAS - 6



Disusun Oleh:

Muhammad Fauzan Dwi Putera (223040033)

Kelas A

Teknik Informatika

Fakultas Teknik

Universitas Pasundan

A. File (MainApp.java)

```
import java.awt.*;
import javax.swing.*;
public class MainApp extends JFrame {
    public MainApp() {
        // Set title and default close operation
        setTitle("Aplikasi Java dengan Multi Form");
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setSize(800, 600);
        setLocationRelativeTo(null);
        // Create menu bar
        JMenuBar menuBar = new JMenuBar();
        JMenu menu = new JMenu("Menu");
        JMenuItem menuItem1 = new JMenuItem("Form Input 1");
        JMenuItem menuItem2 = new JMenuItem("Form Input 2");
        menu.add(menuItem1);
        menu.add(menuItem2);
        menuBar.add(menu);
        setJMenuBar(menuBar);
        // Main panel with CardLayout for switching between forms
        JPanel mainPanel = new JPanel(new CardLayout());
        // Create and add Form 1 and Form 2 to main panel
        JPanel formPanel1 = new FormPanel1();
        JPanel formPanel2 = new FormPanel2();
        mainPanel.add(formPanel1, "Form Input 1");
        mainPanel.add(formPanel2, "Form Input 2");
        menuItem1.addActionListener(e -> showForm(mainPanel, "Form Input 1"));
        menuItem2.addActionListener(e -> showForm(mainPanel, "Form Input 2"));
        // Add main panel to frame
        add(mainPanel);
        setVisible(true);
    private void showForm(JPanel mainPanel, String formName) {
        CardLayout cl = (CardLayout) mainPanel.getLayout();
        cl.show(mainPanel, formName);
    public static void main(String[] args) {
```

```
SwingUtilities.invokeLater(MainApp::new);
}
```

B. File (FormPanel1)

```
import java.awt.*;
import javax.swing.*;
import javax.swing.table.DefaultTableModel;
public class FormPanel1 extends JPanel {
    private JTextField textField;
    private JTextArea textArea;
    private JRadioButton radioButton1, radioButton2;
    private JCheckBox checkBox;
    private JComboBox<String> comboBox;
    private JList<String> list;
    private JSlider slider;
    private JSpinner spinner;
    private JTable table;
    private DefaultTableModel tableModel;
    public FormPanel1() {
        setLayout(new BorderLayout());
        // Panel untuk memasukkan komponen input
        JPanel inputPanel = new JPanel();
        inputPanel.setLayout(new GridLayout(9, 2, 5, 5));
        // JTextField
        inputPanel.add(new JLabel("Text Field:"));
        textField = new JTextField();
        inputPanel.add(textField);
        // JTextArea
        inputPanel.add(new JLabel("Text Area:"));
        textArea = new JTextArea(3, 20);
        inputPanel.add(new JScrollPane(textArea));
        inputPanel.add(new JLabel("Radio Button:"));
        radioButton1 = new JRadioButton("Option 1");
        radioButton2 = new JRadioButton("Option 2");
        ButtonGroup group = new ButtonGroup();
        group.add(radioButton1);
        group.add(radioButton2);
        JPanel radioPanel = new JPanel();
        radioPanel.add(radioButton1);
```

```
radioPanel.add(radioButton2);
       inputPanel.add(radioPanel);
       // JCheckBox
       inputPanel.add(new JLabel("Check Box:"));
       checkBox = new JCheckBox("Agree?");
       inputPanel.add(checkBox);
       // JComboBox
       inputPanel.add(new JLabel("Combo Box:"));
       comboBox = new JComboBox<>(new String[] { "Option 1", "Option 2",
'Option 3" });
       inputPanel.add(comboBox);
       inputPanel.add(new JLabel("List:"));
       list = new JList<>(new String[] { "Item 1", "Item 2", "Item 3" });
       inputPanel.add(new JScrollPane(list));
       // JSlider
       inputPanel.add(new JLabel("Slider:"));
       slider = new JSlider(0, 100, 50);
       inputPanel.add(slider);
       inputPanel.add(new JLabel("Spinner:"));
       spinner = new JSpinner(new SpinnerNumberModel(1, 1, 10, 1));
       inputPanel.add(spinner);
       // Panel untuk menampung input dan tombol
       add(inputPanel, BorderLayout.CENTER);
       String[] columns = { "Field", "Value" };
       tableModel = new DefaultTableModel(columns, 0);
       table = new JTable(tableModel);
       add(new JScrollPane(table), BorderLayout.SOUTH);
       JButton addButton = new JButton("Add to Table");
       addButton.addActionListener(e -> addToTable());
       add(addButton, BorderLayout.NORTH);
   private void addToTable() {
       tableModel.addRow(new Object[] { "TextField", textField.getText() });
       tableModel.addRow(new Object[] { "TextArea", textArea.getText() });
```

```
tableModel.addRow(new Object[] { "RadioButton",
radioButton1.isSelected() ? "Option 1" : "Option 2" });
    tableModel.addRow(new Object[] { "CheckBox", checkBox.isSelected() ?
"Checked" : "Unchecked" });
    tableModel.addRow(new Object[] { "ComboBox",
comboBox.getSelectedItem().toString() });
    tableModel.addRow(new Object[] { "List", list.getSelectedValue() });
    tableModel.addRow(new Object[] { "Slider", slider.getValue() });
    tableModel.addRow(new Object[] { "Spinner", spinner.getValue() });
}
```

C. File (FormPanel2)

```
import java.awt.*;
import javax.swing.*;
import javax.swing.table.DefaultTableModel;
public class FormPanel2 extends JPanel {
    private JTextField textField;
    private JTextArea textArea;
    private JRadioButton radioButton1, radioButton2;
    private JCheckBox checkBox;
    private JComboBox<String> comboBox;
    private JList<String> list;
    private JSlider slider;
    private JSpinner spinner;
    private JTable table;
    private DefaultTableModel tableModel;
    public FormPanel2() {
        setLayout(new BorderLayout());
        // Panel untuk memasukkan komponen input
        JPanel inputPanel = new JPanel();
        inputPanel.setLayout(new GridLayout(9, 2, 5, 5));
        // JTextField
        inputPanel.add(new JLabel("Text Field:"));
        textField = new JTextField();
        inputPanel.add(textField);
        // JTextArea
        inputPanel.add(new JLabel("Text Area:"));
        textArea = new JTextArea(3, 20);
        inputPanel.add(new JScrollPane(textArea));
        // JRadioButton
```

```
inputPanel.add(new JLabel("Radio Button:"));
       radioButton1 = new JRadioButton("Option 1");
       radioButton2 = new JRadioButton("Option 2");
       ButtonGroup group = new ButtonGroup();
       group.add(radioButton1);
       group.add(radioButton2);
       JPanel radioPanel = new JPanel();
       radioPanel.add(radioButton1);
       radioPanel.add(radioButton2);
       inputPanel.add(radioPanel);
       // JCheckBox
       inputPanel.add(new JLabel("Check Box:"));
       checkBox = new JCheckBox("Agree?");
       inputPanel.add(checkBox);
       // JComboBox
       inputPanel.add(new JLabel("Combo Box:"));
       comboBox = new JComboBox<>(new String[] { "Option 1", "Option 2",
'Option 3" });
       inputPanel.add(comboBox);
       // JList
       inputPanel.add(new JLabel("List:"));
       list = new JList<>(new String[] { "Item 1", "Item 2", "Item 3" });
       inputPanel.add(new JScrollPane(list));
       inputPanel.add(new JLabel("Slider:"));
       slider = new JSlider(0, 100, 50);
       inputPanel.add(slider);
       inputPanel.add(new JLabel("Spinner:"));
       spinner = new JSpinner(new SpinnerNumberModel(1, 1, 10, 1));
       inputPanel.add(spinner);
       // Panel untuk menampung input dan tombol
       add(inputPanel, BorderLayout.CENTER);
       String[] columns = { "Field", "Value" };
       tableModel = new DefaultTableModel(columns, 0);
       table = new JTable(tableModel);
       add(new JScrollPane(table), BorderLayout.SOUTH);
       JButton addButton = new JButton("Add to Table");
```

```
addButton.addActionListener(e -> addToTable());
    add(addButton, BorderLayout.NORTH);
}

private void addToTable() {
    tableModel.addRow(new Object[] { "TextField", textField.getText() });
    tableModel.addRow(new Object[] { "TextArea", textArea.getText() });
    tableModel.addRow(new Object[] { "RadioButton",
radioButton1.isSelected() ? "Option 1" : "Option 2" });
    tableModel.addRow(new Object[] { "CheckBox", checkBox.isSelected() ?
"Checked" : "Unchecked" });
    tableModel.addRow(new Object[] { "ComboBox",
comboBox.getSelectedItem().toString() });
    tableModel.addRow(new Object[] { "List", list.getSelectedValue() });
    tableModel.addRow(new Object[] { "Spinner", spinner.getValue() });
    tableModel.addRow(new Object[] { "Spinner", spinner.getValue() });
}
```

Penjelasan

- 1. **File MainApp. java**: Ini adalah kelas utama yang mengelola seluruh aplikasi dan membuat navigasi antara form 1 dan form 2. Form 2 dipanggil sebagai instance dari kelas FormPanel2.
- 2. File FormPanel2.java

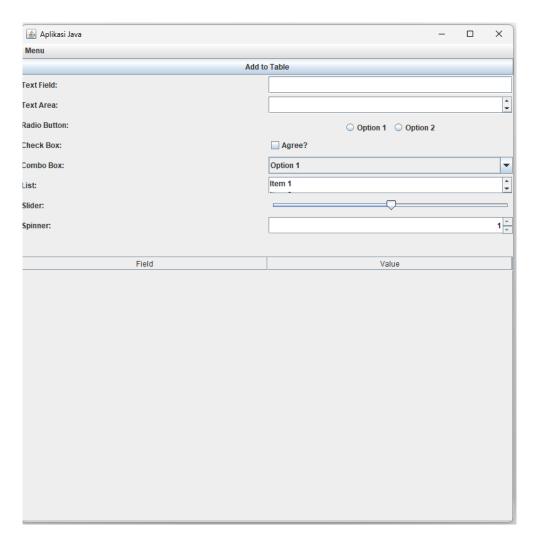
: Ini adalah form kedua yang ditambahkan ke aplikasi utama. FormPanel2 dibuat dengan layout sederhana yang terdiri dari sebuah label, JTextField, dan tombol submit.

Cara Kerja

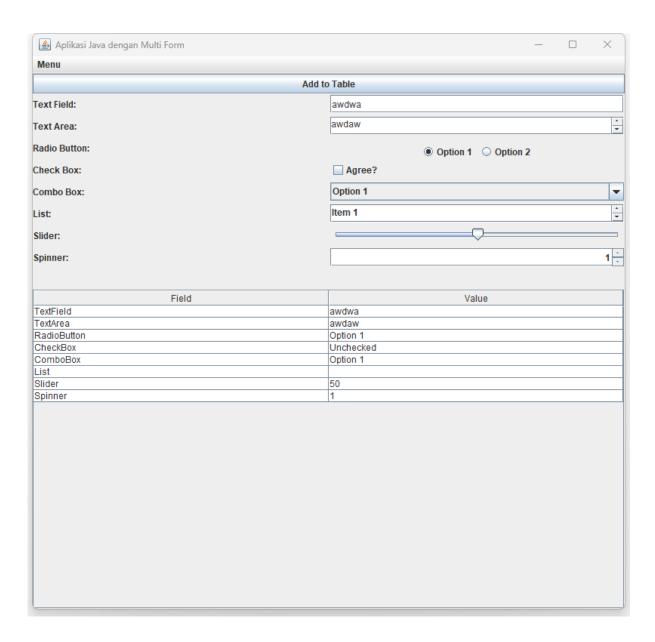
- MainApp mengatur CardLayout dan menu untuk navigasi antara Form 1 dan Form 2.
- Ketika pengguna memilih "Form Input 2" dari menu, aplikasi akan menampilkan form yang dibuat di FormPanel2.

Outputnya:

- Form 1



- Form 2:



- Form 2