import javax.swing.\*;

import javax.swing.table.DefaultTableModel;

import java.awt.\*;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

public class RegisterForm1 extends JFrame {

private DefaultTableModel tableModel;

private JTable table;

private JTextField nameField;

private JTextField ageField;

private JTextField addressField;

private JTextField contactField;

// Constructor should match the class name, so we change it to RegistrationForm1

public RegisterForm1() {

tableModel = new DefaultTableModel();

tableModel.setColumnIdentifiers(new Object[]{"Name", "Age", "Gender", "Address", "Contact"});

table = new JTable(tableModel);

JScrollPane scrollPane = new JScrollPane(table);

nameField = new JTextField(10);

ageField = new JTextField(10);

addressField = new JTextField(10);

contactField = new JTextField(10);

JComboBox<String> genderComboBox = new JComboBox<>(new String[]{"Male", "Female", "Other"});

JButton addButton = new JButton("Add");

addButton.addActionListener(new ActionListener() {

@Override

public void actionPerformed(ActionEvent e) {

String name = nameField.getText();

String age = ageField.getText();

String gender = (String) genderComboBox.getSelectedItem();

String address = addressField.getText();

String contact = contactField.getText();

// Validate input fields to ensure no field is empty

if (name.isEmpty() || age.isEmpty() || address.isEmpty() || contact.isEmpty()) {

JOptionPane.showMessageDialog(null, "Please fill in all fields.", "Input Error", JOptionPane.ERROR\_MESSAGE);

return; // Exit the method if any field is empty

}

// Add the input data to the table

tableModel.addRow(new Object[]{name, age, gender, address, contact});

// Clear input fields after submission

nameField.setText("");

ageField.setText("");

addressField.setText("");

contactField.setText("");

}

});

// Layout setup

setLayout(new BorderLayout());

add(scrollPane, BorderLayout.CENTER);

// Input panel setup (with GridLayout for better alignment)

JPanel inputPanel = new JPanel();

inputPanel.setLayout(new GridLayout(6, 2, 5, 5)); // 6 rows, 2 columns, with padding

inputPanel.add(new JLabel("Name:"));

inputPanel.add(nameField);

inputPanel.add(new JLabel("Age:"));

inputPanel.add(ageField);

inputPanel.add(new JLabel("Gender:"));

inputPanel.add(genderComboBox);

inputPanel.add(new JLabel("Address:"));

inputPanel.add(addressField);

inputPanel.add(new JLabel("Contact:"));

inputPanel.add(contactField);

inputPanel.add(addButton); // Add the "Add" button

add(inputPanel, BorderLayout.SOUTH);

// Window setup

setTitle("Table Input App");

setSize(600, 400);

setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

setVisible(true);

}

public static void main(String[] args) {

// Run the app using SwingUtilities.invokeLater for thread-safety

SwingUtilities.invokeLater(new Runnable() {

@Override

public void run() {

new RegisterForm1(); // Create an instance of RegistrationForm1

}

     });

    }

}