```
package project;
import java.time.Year;
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
import java.util.logging.Level;
import java.util.logging.Logger;
class Login extends JFrame implements ActionListener {
  JTextField tf1 = new JTextField();
  JTextField tf2 = new JTextField();
  JTextField tf3 = new JTextField();
  JTextField tf4 = new JTextField();
  JTextField tf5 = new JTextField();
  JTextField tf6 = new JTextField();
  JTextField tf7 = new JTextField();
  JTextField tf8 = new JTextField();
  public Login() {
    Toolkit toolkit = Toolkit.getDefaultToolkit();
    Dimension screenSize = toolkit.getScreenSize();
    int screenWidth = screenSize.width;
    int screenHeight = screenSize.height;
    String imagePath = "C:/Program Files (x86)/NetBeans 8.2/flightBG.png";
    ImageIcon backgroundImage = new ImageIcon(imagePath);
    Image img = backgroundImage.getImage();
    Image scaledImg = img.getScaledInstance(screenWidth, screenHeight, Image.SCALE_SMOOTH);
    backgroundImage = new ImageIcon(scaledImg);
```

```
JLabel label = new JLabel(backgroundImage);
  label.setBounds(0, 0, screenWidth, screenHeight);
  JButton b1 = new JButton("SignIn");
  b1.setBounds(850, 300, 150, 30);
  JButton b2 = new JButton("SignUp");
  b2.setBounds(850, 350, 150, 30);
  JButton b3 = new JButton("Cancel");
  b3.setBounds(850, 400, 150, 30);
  label.add(b1);
  label.add(b2);
  label.add(b3);
  b1.addActionListener(this);
  b2.addActionListener(this);
  b3.addActionListener(this);
  add(label);
  setSize(screenWidth, screenHeight); // Adjusted to fit the background
  setVisible(true);
  setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
@Override
public void actionPerformed(ActionEvent e) {
  try {
    Class.forName("org.apache.derby.jdbc.ClientDriver");
```

}

```
Connection con = DriverManager.getConnection("jdbc:derby://localhost:1527/FlightBooking",
"rohith", "rohith2002");
      if (e.getActionCommand().equals("SignIn")) {
        openNewPage();
      }
      if (e.getActionCommand().equals("SignUp")) {
        openNewPage1();
      }
      if (e.getActionCommand().equals("Cancel")) {
        dispose();
      }
      con.close();
    } catch (ClassNotFoundException ex) {
      Logger.getLogger(Login.class.getName()).log(Level.SEVERE, null, ex);
    } catch (SQLException ex) {
      Logger.getLogger(Login.class.getName()).log(Level.SEVERE, null, ex);
    }
  }
  public void openNewPage() {
    JFrame newPage = new JFrame("Old User Login");
    newPage.setSize(600, 600);
    newPage.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
    String imagePath = "C:/Program Files (x86)/NetBeans 8.2/new.png";
    ImageIcon backgroundImage = new ImageIcon(imagePath);
```

Image img = backgroundImage.getImage();

```
Image scaledImg = img.getScaledInstance(600, 600, Image.SCALE_SMOOTH);
backgroundImage = new ImageIcon(scaledImg);
JLabel label = new JLabel(backgroundImage);
label.setBounds(0, 0, 600, 600);
newPage.add(label);
JLabel I1 = new JLabel("UserName: ");
l1.setBounds(150, 200, 200, 30);
l1.setFont(new Font("Arial", Font.PLAIN, 18));
tf7.setBounds(250, 200, 300, 30);
JLabel I2 = new JLabel("Password: ");
l2.setBounds(150, 250, 200, 30);
l2.setFont(new Font("Arial", Font.PLAIN, 18));
tf8.setBounds(250, 250, 300, 30);
JButton b1 = new JButton("SignIn");
b1.setBounds(320, 400, 120, 30);
JButton b2 = new JButton("Cancel");
b2.setBounds(320, 450, 120, 30);
label.add(I1);
label.add(I2);
label.add(tf7);
label.add(tf8);
label.add(b1);
label.add(b2);
b1.addActionListener(new ActionListener() {
```

```
public void actionPerformed(ActionEvent e) {
        signInUser();
      }
    });
    b2.addActionListener(new ActionListener() {
      public void actionPerformed(ActionEvent e) {
        newPage.dispose();
      }
    });
    newPage.setVisible(true);
  }
  public void signInUser() {
    String s1 = tf7.getText();
    String s2 = tf8.getText();
    if (s1.isEmpty() | | s2.isEmpty()) {
      JOptionPane.showMessageDialog(this, "All fields must be filled!");
      return;
    }
    try {
      Class.forName("org.apache.derby.jdbc.ClientDriver");
      Connection con = DriverManager.getConnection("jdbc:derby://localhost:1527/FlightBooking",
"rohith", "rohith2002");
      String query = "SELECT * FROM LOGIN WHERE UserName=? AND Password=?";
      PreparedStatement pst = con.prepareStatement(query);
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pst.setString(1, s1);
    pst.setString(2, s2);
    ResultSet rs = pst.executeQuery();
    if (rs.next()) {
      openNewPage2();
    } else {
      JOptionPane.showMessageDialog(this, "Invalid Username or Password!");
    }
    con.close();
  } catch (ClassNotFoundException ex) {
    Logger.getLogger(Login.class.getName()).log(Level.SEVERE, null, ex);
    JOptionPane.showMessageDialog(this, "Database driver not found.");
  } catch (SQLException ex) {
    Logger.getLogger(Login.class.getName()).log(Level.SEVERE, null, ex);
    JOptionPane.showMessageDialog(this, "Error occurred while accessing the database.");
  }
}
public void openNewPage2() {
JFrame newPage = new JFrame("Ticket Booking");
newPage.setSize(600, 600);
newPage.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
String imagePath = "C:/Program Files (x86)/NetBeans 8.2/new.png";
ImageIcon backgroundImage = new ImageIcon(imagePath);
Image img = backgroundImage.getImage();
Image scaledImg = img.getScaledInstance(600, 600, Image.SCALE_SMOOTH);
```

```
backgroundImage = new ImageIcon(scaledImg);
JLabel label = new JLabel(backgroundImage);
label.setBounds(0, 0, 600, 600);
newPage.add(label);
JLabel I1 = new JLabel("Name: ");
I1.setBounds(150, 50, 200, 30);
l1.setFont(new Font("Arial", Font.PLAIN, 18));
tf4.setBounds(250, 50, 300, 30);
JLabel I2 = new JLabel("Age: ");
I2.setBounds(150, 100, 200, 30);
l2.setFont(new Font("Arial", Font.PLAIN, 18));
tf5.setBounds(250, 100, 300, 30);
JLabel I3 = new JLabel("Gender: ");
l3.setBounds(150, 150, 200, 30);
13.setFont(new Font("Arial", Font.PLAIN, 18));
JRadioButton maleButton = new JRadioButton("Male");
maleButton.setBounds(250, 150, 70, 30);
JRadioButton femaleButton = new JRadioButton("Female");
femaleButton.setBounds(320, 150, 80, 30);
ButtonGroup genderGroup = new ButtonGroup();
genderGroup.add(maleButton);
genderGroup.add(femaleButton);
label.add(l1);
label.add(I2);
```

```
label.add(l3);
label.add(tf4);
label.add(tf5);
label.add(maleButton);
label.add(femaleButton);
JLabel I4 = new JLabel("From: ");
I4.setBounds(150, 200, 200, 30);
I4.setFont(new Font("Arial", Font.PLAIN, 18));
JTextField fromField = new JTextField();
fromField.setBounds(250, 200, 300, 30);
JLabel I5 = new JLabel("To: ");
I5.setBounds(150, 250, 200, 30);
15.setFont(new Font("Arial", Font.PLAIN, 18));
JTextField toField = new JTextField();
toField.setBounds(250, 250, 300, 30);
label.add(l4);
label.add(fromField);
label.add(I5);
label.add(toField);
JLabel I6 = new JLabel("Travel date: ");
l6.setBounds(150, 300, 200, 30);
l6.setFont(new Font("Arial", Font.PLAIN, 18));
label.add(l6);
String[] days = new String[31];
for (int i = 1; i <= 31; i++) {
  days[i - 1] = String.valueOf(i);
```

```
}
String[] months = new String[12];
for (int i = 1; i \le 12; i++) {
  months[i - 1] = String.valueOf(i);
}
String[] years = new String[100];
for (int i = 0; i < 100; i++) {
 years[i] = String.valueOf(Year.now().getValue() + i);
}
JComboBox<String> dayComboBox = new JComboBox<>(days);
JComboBox<String> monthComboBox = new JComboBox<>(months);
JComboBox<String> yearComboBox = new JComboBox<>(years);
dayComboBox.setBounds(250, 300, 50, 30);
monthComboBox.setBounds(310, 300, 50, 30);
yearComboBox.setBounds(370, 300, 70, 30);
label.add(dayComboBox);
label.add(monthComboBox);
label.add(yearComboBox);
JButton b1 = new JButton("Book Ticket");
b1.setBounds(200, 400, 120, 30);
JButton b2 = new JButton("Cancel");
b2.setBounds(350, 400, 120, 30);
label.add(b1);
label.add(b2);
```

```
b1.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
      String name = tf4.getText();
      String age = tf5.getText();
      String from = fromField.getText();
      String to = toField.getText();
      String travelDate = dayComboBox.getSelectedItem() + "/" +
monthComboBox.getSelectedItem() + "/" + yearComboBox.getSelectedItem();
      if (name.isEmpty() || age.isEmpty() || from.isEmpty() || to.isEmpty()) {
        JOptionPane.showMessageDialog(newPage, "All fields must be filled!");
        return;
      }
      // Simulate booking logic here, such as storing in a database or processing
      JOptionPane.showMessageDialog(newPage, "Ticket booked successfully for " + name +
                       "! From: " + from + " To: " + to + " on " + travelDate);
      newPage.dispose(); // Close the booking page after successful booking
    }
  });
  b2.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
      newPage.dispose();
    }
  });
  newPage.setVisible(true);
}
```

```
public void bookTicket() {
  String name = tf4.getText();
  String age = tf5.getText();
  if (name.isEmpty() | | age.isEmpty()) {
    JOptionPane.showMessageDialog(this, "All fields must be filled!");
    return;
  }
  // Additional logic for booking can be implemented here
  JOptionPane.showMessageDialog(this, "Ticket booked successfully!");
}
public void openNewPage1() {
  JFrame newPage = new JFrame("New User Registration");
  newPage.setSize(600, 600);
  newPage.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
  String imagePath = "C:/Program Files (x86)/NetBeans 8.2/new.png";
  ImageIcon backgroundImage = new ImageIcon(imagePath);
  Image img = backgroundImage.getImage();
  Image scaledImg = img.getScaledInstance(600, 600, Image.SCALE_SMOOTH);
  backgroundImage = new ImageIcon(scaledImg);
  JLabel label = new JLabel(backgroundImage);
  label.setBounds(0, 0, 600, 600);
  newPage.add(label);
  JLabel I1 = new JLabel("UserName: ");
```

```
l1.setBounds(150, 200, 200, 30);
l1.setFont(new Font("Arial", Font.PLAIN, 18));
tf1.setBounds(250, 200, 300, 30);
JLabel I2 = new JLabel("Password: ");
I2.setBounds(150, 250, 200, 30);
l2.setFont(new Font("Arial", Font.PLAIN, 18));
tf2.setBounds(250, 250, 300, 30);
JLabel I3 = new JLabel("Email: ");
l3.setBounds(150, 300, 200, 30);
I3.setFont(new Font("Arial", Font.PLAIN, 18));
tf3.setBounds(250, 300, 300, 30);
JLabel I4 = new JLabel("Phone: ");
l4.setBounds(150, 350, 200, 30);
l4.setFont(new Font("Arial", Font.PLAIN, 18));
tf4.setBounds(250, 350, 300, 30);
label.add(l1);
label.add(l2);
label.add(I3);
label.add(I4);
label.add(tf1);
label.add(tf2);
label.add(tf3);
label.add(tf4);
JButton b1 = new JButton("SignUp");
b1.setBounds(200, 450, 120, 30);
```

```
JButton b2 = new JButton("Cancel");
  b2.setBounds(350, 450, 120, 30);
  label.add(b1);
  label.add(b2);
  b1.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
      signUpUser();
    }
  });
  b2.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
      newPage.dispose();
    }
  });
  newPage.setVisible(true);
}
public void signUpUser() {
  String username = tf1.getText();
  String password = tf2.getText();
  String email = tf3.getText();
  String phone = tf4.getText();
  if (username.isEmpty() || password.isEmpty() || email.isEmpty() || phone.isEmpty()) {
    JOptionPane.showMessageDialog(this, "All fields must be filled!");
    return;
  }
```

```
try {
      Class.forName("org.apache.derby.jdbc.ClientDriver");
      Connection con = DriverManager.getConnection("jdbc:derby://localhost:1527/FlightBooking",
"rohith", "rohith2002");
      String query = "INSERT INTO LOGIN (UserName, Password, Email, Phone) VALUES (?, ?, ?, ?)";
      PreparedStatement pst = con.prepareStatement(query);
      pst.setString(1, username);
      pst.setString(2, password);
      pst.setString(3, email);
      pst.setString(4, phone);
      int rowsAffected = pst.executeUpdate();
      if (rowsAffected > 0) {
        JOptionPane.showMessageDialog(this, "Registration successful!");
      } else {
        JOptionPane.showMessageDialog(this, "Registration failed!");
      }
      con.close();
    } catch (ClassNotFoundException ex) {
      Logger.getLogger(Login.class.getName()).log(Level.SEVERE, null, ex);
      JOptionPane.showMessageDialog(this, "Database driver not found.");
    } catch (SQLException ex) {
      Logger.getLogger(Login.class.getName()).log(Level.SEVERE, null, ex);
      JOptionPane.showMessageDialog(this, "Error occurred while accessing the database.");
    }
  }
  public static void main(String[] args) {
```

```
new Login();
}
```