

ATM Simulator

Problem Statement:

To develop a Java application that simulates an ATM (Automated teller Machine).

Explanation:

This project's main goal is to create a system that can imitate ATM transactions. The system will allow the user to withdraw cash, transfer money to another account, view a mini statement, and get balance information.

- At first, the user will be displayed with the screen to enter their ATM card number and pin.
- If the details entered are valid, the user will be displayed with the dashboard, else the user will be prompted with an error message. And again will be asked to enter the ATM card number and pin.
- In the dashboard, user will get an option to select either he/she wanna withdraw money, Get the account balance, Transfer money to some other account, get the debit history, and exit from the dashboard.
- If the user selects **Withdraw**, he/she will be asked to enter the amount. After entering the amount, if the user wanna proceed, will press the **Proceed** button.
- After a successful transaction, the user will then be prompted with a **Transaction Successful** message.
- If the user selects to get the **Balance amount**, he/she will be prompted with a message stating the balance amount.
- If the user selects **Transfer**, he/she will be displayed with a screen to enter the **Receiver's Username and the amount** to be transferred. After a successful transaction the user will be notified about the successful transaction.
- If the user selects **Debit History**, The system will display the last 5 transactions.

Features of Java Used:

1. Swing:

(Used to design the GUI components)

We used **NetBeans** to create the GUI for our project

NetBeans is an IDE for developing applications using different languages. Java programming language is one of those many languages which NetBeans supports.

NetBeans is the **best IDE for building desktop applications using swing** since it provides a **user-friendly interface** for designing and coding the UI. It has **inbuilt libraries for swing which auto-populate code**.

The in-built libraries in NetBeans provide a palette section in the IDE when creating a swing application. This makes it easier to **drag and drop** components when designing an application.

Java Swing is based on an abstract windowing toolkit API that is purely written in Java. Java Swing offers lightweight and platform-agnostic components, making it ideal for designing and creating desktop-based applications (systems).

Common Swing components for desktop application (GUI)

Java Swing components are contained in the `javax.swing` package. Java Swing Components are vital aspects for designing, developing, and implementing an application. The Swing Graphical User Interface widget toolkit for the Java programming language is made up of these components.

These include:

1. JFrame
2. JLabel
3. JTextField
4. JButton

Other include: JPanel, JComboBox, JRadioButton, JCheckBox, JTable, JList, JFileChooser, JTextArea, ImageIcon.

The features we used in our app are as follows:

1. JFrame

In the Java Swing Component hierarchy, JFrame is the very first component.

1. By constructing a Frame class object. That is, association-based creation.

Example:

```
import javax.swing.JFrame;
public class Main {
    public static void main(String[] args) {
        JFrame sectionFrame = new JFrame();
        sectionFrame.setSize(600, 600); // 600 width & 600 height
        sectionFrame.setLayout(null); // no layout managers
        sectionFrame.setVisible(true); // frame visible
    }
}
```

2. By extending the Frame class. That is, OOP creation through class inheritance.

Example:

```
import javax.swing.JFrame;
public class sectionHomeWindow extends JFrame {
    /**
     * Creates new form sectionHomeWindow
     */
    public sectionHomeWindow() {
    }
}
```

2. JLabel

JLabel is a Swing Container User Interface component that displays readable text or an image. The text presented in the JLabel cannot be edited by the application user.

The text can, however, be changed by the application itself via action events. Both plain and HTML text can be shown using the JLabel component.

Example:

```
JLabel labelName = new JLabel("Name");
```

3. JTextField

JTextField is a swing component that lets users enter a single line of text. JTextField is a child of the javax.swing Library's JTextComponent class.

The enable property must be set to true for JTextField to be available and editable. JTextField can be initialised by giving an integer type parameter to the JTextField function.

The number of characters a user can type in the text field is not limited by the integer argument given in the function. It does, however, provide the text field box's width, i.e. the number of columns to be assigned to it.

Example:

```
JTextField sectionTextField = new JTextField(20);
```

4. JButton

JButton is one of the swing components which gives swing the property of platform independence. This component creates a click effect on the application's user interface. It is implemented in an application by calling any of its class constructors.

By clicking or double-clicking on it, data from databases is retrieved and displayed on the UI, or user data is collected on the UI and stored/saved in a database.

In most applications, JButton has text or a picture that tells the user what the button does.

```
JButton submitButton = new JButton("Submit");
```

2. Java Database Connectivity(JDBC)

JDBC is an acronym for Java Database Connectivity. JDBC is a standard API specification developed in order to move data from frontend to backend. This API consists of classes and interfaces written in Java. It basically acts as an interface (not the one we use in Java) or channel between your Java program and databases i.e it establishes a link between the two so that a programmer could send data from Java code and store it in the database for future use.

* Steps for Connectivity between Java Program and a Database:

1. Import the database
2. Load the drivers using the `forName()` method
3. Register the drivers using the `DriverManager`
4. Establish a connection using the `Connection` class object
5. Create a statement
6. Execute the query
7. Close the connections

Illustration

The above given **Steps from 1 to 4** can be executed in 2-lines of Java code given below.

```
Class.forName("com.mysql.jdbc.Driver"); // load the drivers
Connection con =
DriverManager.getConnection("jdbc:mysql://localhost/atm", "root",
"Kishan@1072");
```

Creating a Statement

Once a connection is established you can interact with the database. The `JDBCStatement`, `CallableStatement`, and `PreparedStatement` interfaces define the methods that enable you to send SQL commands and receive data from your database.

Use of JDBC Statement is as follows:

```
Statement st = con.createStatement();
```

Here, `con` is reference to `Connection` interface used in previous step.

Execute the Query

```
int m = st.executeUpdate(sql);
if (m==1)
    System.out.println("inserted successfully : "+sql);
else
    System.out.println("insertion failed");
```

Here, `sql` is SQL query of the type `String`.

Closing the connections

The close() method of the Connection interface is used to close the connection. It is as shown below as follows:

```
con.close();
```

C:\Users\kisha\Documents\NetBeansProjects\AutomatedTellerMachine\src\main\java\com\mycompany\automatedtellermachine\LoginActivity.java

```
1 package com.mycompany.automatedtellermachine;
2
3 import javax.swing.*;
4 import java.sql.*;
5
6 public class LoginActivity extends JFrame {
7
8     String cardNumberEntered;
9     String user;
10    String receiverUserName;
11    float amountBalance;
12    float receiverBalance;
13
14    public LoginActivity() {
15        initComponents();
16    }
17
18    // Code auto-generated by the IDE
19    @SuppressWarnings("unchecked")
20    // <editor-fold defaultstate="collapsed" desc="Generated Code">
21    private void initComponents() {
22
23        jPanel1 = new javax.swing.JPanel();
24        jLabel1 = new javax.swing.JLabel();
25        jTabbedPane1 = new javax.swing.JTabbedPane();
26        jPanel3 = new javax.swing.JPanel();
27        jPanel4 = new javax.swing.JPanel();
28        jLabel2 = new javax.swing.JLabel();
29        jLabel3 = new javax.swing.JLabel();
30        jLabel8 = new javax.swing.JLabel();
31        jPanel5 = new javax.swing.JPanel();
32        jLabel14 = new javax.swing.JLabel();
33        cardNumberField = new javax.swing.JTextField();
34        jLabel5 = new javax.swing.JLabel();
35        pinField = new javax.swing.JPasswordField();
36        resetButton = new javax.swing.JButton();
37        proceedButton = new javax.swing.JButton();
38        jPanel2 = new javax.swing.JPanel();
39        jPanel6 = new javax.swing.JPanel();
40        jLabel6 = new javax.swing.JLabel();
41        jLabel7 = new javax.swing.JLabel();
42        jPanel7 = new javax.swing.JPanel();
43        balanceInfoButton = new javax.swing.JButton();
44        cashWithDrawalButton = new javax.swing.JButton();
45        exitButton = new javax.swing.JButton();
46        transferButton = new javax.swing.JButton();
47        debitHistoryButton = new javax.swing.JButton();
48        jPanel8 = new javax.swing.JPanel();
49        jPanel9 = new javax.swing.JPanel();
50        jLabel9 = new javax.swing.JLabel();
51        amountField = new javax.swing.JTextField();
52        resetButton1 = new javax.swing.JButton();
53        proceedButton1 = new javax.swing.JButton();
54        goToDashboardButton = new javax.swing.JButton();
55        exitFromWithdrawalButton = new javax.swing.JButton();
56        jPanel10 = new javax.swing.JPanel();
57        jLabel11 = new javax.swing.JLabel();
58        jLabel12 = new javax.swing.JLabel();
59        jLabel13 = new javax.swing.JLabel();
60        jPanel11 = new javax.swing.JPanel();
61        jPanel12 = new javax.swing.JPanel();
62        jLabel14 = new javax.swing.JLabel();
63        jLabel15 = new javax.swing.JLabel();
64        jLabel16 = new javax.swing.JLabel();
65        jPanel13 = new javax.swing.JPanel();
```

```
66 jLabel10 = new javax.swing.JLabel();
67 userNameField = new javax.swing.JTextField();
68 resetButton2 = new javax.swing.JButton();
69 proceedButton2 = new javax.swing.JButton();
70 goToDashboardButton1 = new javax.swing.JButton();
71 exitFromWithdrawalButton1 = new javax.swing.JButton();
72 jLabel17 = new javax.swing.JLabel();
73 amountField2 = new javax.swing.JTextField();
74 jPanel14 = new javax.swing.JPanel();
75 jPanel15 = new javax.swing.JPanel();
76 jLabel18 = new javax.swing.JLabel();
77 jLabel19 = new javax.swing.JLabel();
78 jLabel20 = new javax.swing.JLabel();
79 jPanel16 = new javax.swing.JPanel();
80 jLabel21 = new javax.swing.JLabel();
81 jLabel22 = new javax.swing.JLabel();
82 jLabel23 = new javax.swing.JLabel();
83 jLabel24 = new javax.swing.JLabel();
84 jSeparator1 = new javax.swing.JSeparator();
85 jSeparator2 = new javax.swing.JSeparator();
86 date1 = new javax.swing.JLabel();
87 date2 = new javax.swing.JLabel();
88 date3 = new javax.swing.JLabel();
89 date4 = new javax.swing.JLabel();
90 date5 = new javax.swing.JLabel();
91 time1 = new javax.swing.JLabel();
92 time2 = new javax.swing.JLabel();
93 time3 = new javax.swing.JLabel();
94 time4 = new javax.swing.JLabel();
95 time5 = new javax.swing.JLabel();
96 amount1 = new javax.swing.JLabel();
97 amount2 = new javax.swing.JLabel();
98 amount3 = new javax.swing.JLabel();
99 amount4 = new javax.swing.JLabel();
100 amount5 = new javax.swing.JLabel();
101 exitFromWithdrawalButton2 = new javax.swing.JButton();
102 goToDashboardButton2 = new javax.swing.JButton();
103
104 setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
105 setTitle("State Bank of India");
106 setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT_CURSOR));
107 setUndecorated(true);
108 setResizable(false);
109
110 jPanel1.setBackground(new java.awt.Color(255, 255, 255));
111
112 jLabel1.setBackground(new java.awt.Color(255, 255, 255));
113 jLabel1.setFont(new java.awt.Font("Liberation Sans", 1, 36)); // NOI18N
114 jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
115 jLabel1.setIcon(new javax.swing.ImageIcon("C:\\Users\\kisha\\Downloads\\sbi.png")); // NOI18N
116 jLabel1.setText("State Bank Of India");
117
118 javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
119 jPanel1.setLayout(jPanel1Layout);
120 jPanel1Layout.setHorizontalGroup(
121     jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
122         .addGroup(jPanel1Layout.createSequentialGroup()
123             .addGap(456, 456, 456)
124             .addComponent(jLabel1)
125             .addGap(0, 0, Short.MAX_VALUE))
126     );
127 jPanel1Layout.setVerticalGroup(
128     jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
129         .addGroup(jPanel1Layout.createSequentialGroup()
130             .addGap(456, 456, 456)
131             .addComponent(jLabel1)
132             .addGap(0, 0, Short.MAX_VALUE))
133 );
```

```
134
135     jTabbedPane1.setTabPlacement(javax.swing.JTabbedPane.BOTTOM);
136
137     jPanel4.setBackground(new java.awt.Color(102, 0, 153));
138
139     jLabel2.setFont(new java.awt.Font("SF Pro Display", 1, 24)); // NOI18N
140     jLabel2.setForeground(new java.awt.Color(255, 255, 102));
141     jLabel2.setText("Welcome to the Automated Teller Machine");
142
143     jLabel3.setFont(new java.awt.Font("SF Pro Display", 1, 24)); // NOI18N
144     jLabel3.setForeground(new java.awt.Color(255, 0, 0));
145     jLabel3.setText("YOUR PIN IS CONFIDENTIAL NOBODY SHOULD SEE THE PIN");
146
147     jLabel8.setFont(new java.awt.Font("SF Pro Display", 1, 24)); // NOI18N
148     jLabel8.setForeground(new java.awt.Color(255, 0, 0));
149     jLabel8.setText("WHILE YOU ARE ENTERING IT. MAKE YOUR PIN MORE SECURE BY CHANGING IT FREQUENTLY");
150
151     javax.swing.GroupLayout jPanel4Layout = new javax.swing.GroupLayout(jPanel4);
152     jPanel4.setLayout(jPanel4Layout);
153     jPanel4Layout.setHorizontalGroup(
154         jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
155             .addGroup(jPanel4Layout.createSequentialGroup()
156                 .addGap(115, 115, 115)
157                 .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
158                     .addGroup(jPanel4Layout.createSequentialGroup()
159                         .addComponent(jLabel8)
160                         .addGap(409, 409, 409)
161                         .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
162                             .addComponent(jLabel12)
163                             .addGap(409, 409, 409))
164                         .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
165                             .addComponent(jLabel13)
166                             .addGap(316, 316, 316)))
167                 )
168             .addGap(54, 54, 54)
169             .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
170                 .addGroup(jPanel4Layout.createSequentialGroup()
171                     .addGapContainerGap()
172                     .addComponent(jLabel2)
173                     .addGapPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
174                     .addComponent(jLabel3)
175                     .addGap(1, 1, 1)
176                     .addComponent(jLabel18)
177                     .addGapContainerGap(54, Short.MAX_VALUE))
178         )
179     );
180
181     jPanel15.setBackground(new java.awt.Color(102, 0, 153));
182
183     jLabel4.setFont(new java.awt.Font("SF Pro Display", 1, 36)); // NOI18N
184     jLabel4.setForeground(new java.awt.Color(255, 0, 255));
185     jLabel4.setText("Card Number: ");
186
187     cardNumberField.setBackground(new java.awt.Color(255, 0, 255));
188     cardNumberField.setFont(new java.awt.Font("Liberation Sans", 1, 36)); // NOI18N
189     cardNumberField.setForeground(new java.awt.Color(102, 0, 253));
190     cardNumberField.setName(""); // NOI18N
191
192     jLabel5.setFont(new java.awt.Font("SF Pro Display", 1, 36)); // NOI18N
193     jLabel5.setForeground(new java.awt.Color(255, 0, 255));
194     jLabel5.setText("Pin:");
195
196     pinField.setBackground(new java.awt.Color(255, 0, 255));
197     pinField.setFont(new java.awt.Font("SF Pro Display", 1, 36)); // NOI18N
198     pinField.setForeground(new java.awt.Color(102, 0, 253));
199     pinField.addActionListener(new java.awt.event.ActionListener() {
200         public void actionPerformed(java.awt.event.ActionEvent evt) {
201             pinFieldActionPerformed(evt);
202         }
203     }
```

```

202 });
203
204 resetButton.setBackground(new java.awt.Color(255, 0, 255));
205 resetButton.setFont(new java.awt.Font("SF Pro Display", 1, 36)); // NOI18N
206 resetButton.setForeground(new java.awt.Color(102, 0, 153));
207 resetButton.setText("Reset");
208 resetButton.addActionListener(new java.awt.event.ActionListener() {
209     public void actionPerformed(java.awt.event.ActionEvent evt) {
210         resetButtonActionPerformed(evt);
211     }
212 });
213
214 proceedButton.setBackground(new java.awt.Color(255, 0, 255));
215 proceedButton.setFont(new java.awt.Font("SF Pro Display", 1, 36)); // NOI18N
216 proceedButton.setForeground(new java.awt.Color(102, 0, 153));
217 proceedButton.setText("Proceed");
218 proceedButton.addActionListener(new java.awt.event.ActionListener() {
219     public void actionPerformed(java.awt.event.ActionEvent evt) {
220         proceedButtonActionPerformed(evt);
221     }
222 });
223
224 javax.swing.GroupLayout jPanel5Layout = new javax.swing.GroupLayout(jPanel5);
225 jPanel5.setLayout(jPanel5Layout);
226 jPanel5Layout.setHorizontalGroup(
227     jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
228         .addGroup(jPanel5Layout.createSequentialGroup()
229             .addGap(361, 361, 361)
230             .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
231                 .addComponent(proceedButton)
232                 .addComponent(jLabel14)
233                 .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 75, javax.swing.GroupLayout.PREFERRED_SIZE))
234             .addGap(18, 18, 18)
235             .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
236                 .addComponent(pinField, javax.swing.GroupLayout.PREFERRED_SIZE, 117, javax.swing.GroupLayout.PREFERRED_SIZE)
237                 .addComponent(cardNumberField, javax.swing.GroupLayout.PREFERRED_SIZE, 359, javax.swing.GroupLayout.PREFERRED_SIZE)
238                 .addComponent(resetButton))
239             .addGap(18, 18, 18)
240             .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
241                 .addComponent(jPanel5Layout.getVerticalGroup())
242                 .addComponent(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
243                     .addGroup(jPanel5Layout.createSequentialGroup()
244                         .addGap(141, 141, 141)
245                         .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
246                             .addComponent(jLabel14)
247                             .addComponent(cardNumberField, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
248                             .addComponent(jPanel5Layout.getPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)))
249                         .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
250                             .addComponent(jLabel15)
251                             .addComponent(pinField, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
252                         .addGap(21, 21, 21)
253                         .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
254                             .addComponent(resetButton, javax.swing.GroupLayout.PREFERRED_SIZE, 51, javax.swing.GroupLayout.PREFERRED_SIZE)
255                             .addComponent(proceedButton, javax.swing.GroupLayout.PREFERRED_SIZE, 51, javax.swing.GroupLayout.PREFERRED_SIZE))
256                         .addGap(193, Short.MAX_VALUE)))
257         );
258
259 javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);
260 jPanel3.setLayout(jPanel3Layout);
261 jPanel3Layout.setHorizontalGroup(
262     jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
263         .addGroup(jPanel3Layout.createSequentialGroup()
264             .addComponent(jPanel14, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
265             .addComponent(jPanel15, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
266         );
267     jPanel3Layout.setVerticalGroup(
268         jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
269             .addComponent(jPanel14, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

```

```
270     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
271     .addComponent(jPanel5, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
272 );
273
274 jTabbedPane1.addTab("tab1", jPanel3);
275
276 jPanel6.setBackground(new java.awt.Color(102, 0, 153));
277
278 jLabel6.setFont(new java.awt.Font("SF Pro Display", 1, 24)); // NOI18N
279 jLabel6.setForeground(new java.awt.Color(255, 255, 102));
280 jLabel6.setText("Welcome to the dashboard");
281
282 jLabel7.setFont(new java.awt.Font("SF Pro Display", 1, 24)); // NOI18N
283 jLabel7.setForeground(new java.awt.Color(255, 0, 0));
284 jLabel7.setText("PLEASE CLICK THE EXIT BUTTON BEFORE LEAVING");
285
286 javax.swing.GroupLayout jPanel6Layout = new javax.swing.GroupLayout(jPanel6);
287 jPanel6.setLayout(jPanel6Layout);
288 jPanel6Layout.setHorizontalGroup(
289     jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
290         .addGroup(jPanel6Layout.createSequentialGroup()
291             .addGap(375, Short.MAX_VALUE)
292             .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
293                 .addGroup(jPanel6Layout.createSequentialGroup()
294                     .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 349, javax.swing.GroupLayout.PREFERRED_SIZE)
295                     .addGap(498, 498, 498)
296                     .addGroup(jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
297                         .addComponent(jLabel7)
298                         .addGap(365, 365, 365)))
299             );
300         jPanel6Layout.setVerticalGroup(
301             jPanel6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
302                 .addGroup(jPanel6Layout.createSequentialGroup()
303                     .addGap(375, Short.MAX_VALUE)
304                     .addComponent(jLabel6)
305                     .addGap(18, 18, 18)
306                     .addComponent(jLabel7)
307                     .addGap(18, 18, 18)
308             );
309
310 jPanel7.setBackground(new java.awt.Color(102, 0, 153));
311
312 balanceInfoButton.setBackground(new java.awt.Color(255, 0, 255));
313 balanceInfoButton.setFont(new java.awt.Font("SF Pro Display", 1, 36)); // NOI18N
314 balanceInfoButton.setForeground(new java.awt.Color(102, 0, 153));
315 balanceInfoButton.setText("Balance Info");
316 balanceInfoButton.addActionListener(new java.awt.event.ActionListener() {
317     public void actionPerformed(java.awt.event.ActionEvent evt) {
318         balanceInfoButtonActionPerformed(evt);
319     }
320 });
321
322 cashWithDrawalButton.setBackground(new java.awt.Color(255, 0, 255));
323 cashWithDrawalButton.setFont(new java.awt.Font("SF Pro Display", 1, 36)); // NOI18N
324 cashWithDrawalButton.setForeground(new java.awt.Color(102, 0, 153));
325 cashWithDrawalButton.setText("Cash Withdrawal");
326 cashWithDrawalButton.addActionListener(new java.awt.event.ActionListener() {
327     public void actionPerformed(java.awt.event.ActionEvent evt) {
328         cashWithDrawalButtonActionPerformed(evt);
329     }
330 });
331
332 exitButton.setBackground(new java.awt.Color(204, 51, 0));
333 exitButton.setFont(new java.awt.Font("SF Pro Display", 1, 36)); // NOI18N
334 exitButton.setForeground(new java.awt.Color(102, 0, 153));
335 exitButton.setText("EXIT");
336 exitButton.addActionListener(new java.awt.event.ActionListener() {
337     public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```

338         exitButtonActionPerformed(evt);
339     }
340   });
341
342   transferButton.setBackground(new java.awt.Color(255, 0, 255));
343   transferButton.setFont(new java.awt.Font("SF Pro Display", 1, 36)); // NOI18N
344   transferButton.setForeground(new java.awt.Color(102, 0, 153));
345   transferButton.setText("Transfer");
346   transferButton.addActionListener(new java.awt.event.ActionListener() {
347     public void actionPerformed(java.awt.event.ActionEvent evt) {
348       transferButtonActionPerformed(evt);
349     }
350   });
351
352   debitHistoryButton.setBackground(new java.awt.Color(255, 0, 255));
353   debitHistoryButton.setFont(new java.awt.Font("SF Pro Display", 1, 36)); // NOI18N
354   debitHistoryButton.setForeground(new java.awt.Color(102, 0, 153));
355   debitHistoryButton.setText("Debit History");
356   debitHistoryButton.addActionListener(new java.awt.event.ActionListener() {
357     public void actionPerformed(java.awt.event.ActionEvent evt) {
358       debitHistoryButtonActionPerformed(evt);
359     }
360   });
361
362   javax.swing.GroupLayout jPanel7Layout = new javax.swing.GroupLayout(jPanel7);
363   jPanel7.setLayout(jPanel7Layout);
364   jPanel7Layout.setHorizontalGroup(jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
365     .addGroup(jPanel7Layout.createSequentialGroup()
366       .addGroup(jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
367         .addGroup(jPanel7Layout.createSequentialGroup()
368           .addGroup(jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
369             .addComponent(transferButton, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
370             .addComponent(cashWithdrawButton, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
371             .addComponent(balanceInfoButton, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
372             .addComponent(debitHistoryButton, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
373             .addComponent(exitButton, javax.swing.GroupLayout.PREFERRED_SIZE, 351, javax.swing.GroupLayout.PREFERRED_SIZE))
374           .addGap(503, 503, 503))
375       );
376     .addGroup(jPanel7Layout.createSequentialGroup()
377       .addGroup(jPanel7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
378         .addGroup(jPanel7Layout.createSequentialGroup()
379           .addGap(90, 90, 90)
380           .addComponent(cashWithdrawButton, javax.swing.GroupLayout.PREFERRED_SIZE, 51, javax.swing.GroupLayout.PREFERRED_SIZE)
381           .addGap(18, 18, 18)
382           .addComponent(balanceInfoButton, javax.swing.GroupLayout.PREFERRED_SIZE, 51, javax.swing.GroupLayout.PREFERRED_SIZE)
383           .addGap(18, 18, 18)
384           .addComponent(transferButton, javax.swing.GroupLayout.PREFERRED_SIZE, 51, javax.swing.GroupLayout.PREFERRED_SIZE)
385           .addGap(18, 18, 18)
386           .addComponent(debitHistoryButton, javax.swing.GroupLayout.PREFERRED_SIZE, 51, javax.swing.GroupLayout.PREFERRED_SIZE)
387           .addGap(18, 18, 18)
388           .addComponent(exitButton, javax.swing.GroupLayout.PREFERRED_SIZE, 51, javax.swing.GroupLayout.PREFERRED_SIZE))
389         .addGapContainerGap(178, Short.MAX_VALUE)
390       );
391
392     javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
393     jPanel2.setLayout(jPanel2Layout);
394     jPanel2Layout.setHorizontalGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
395       .addGroup(jPanel2Layout.createSequentialGroup()
396         .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
397           .addComponent(jPanel16, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
398           .addComponent(jPanel17, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
399         );
399     jPanel2Layout.setVerticalGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
400       .addGroup(jPanel2Layout.createSequentialGroup()
401         .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
402           .addComponent(jPanel16, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
403           .addComponent(jPanel17, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
404         );
405   );

```

```

406
407     jTabbedPane1.addTab("tab2", jPanel12);
408
409     jPanel19.setBackground(new java.awt.Color(102, 0, 153));
410
411     jLabel19.setFont(new java.awt.Font("SF Pro Display", 1, 36)); // NOI18N
412     jLabel19.setForeground(new java.awt.Color(255, 0, 255));
413     jLabel19.setText("Amount:");
414
415     amountField.setBackground(new java.awt.Color(255, 0, 255));
416     amountField.setFont(new java.awt.Font("Liberation Sans", 1, 36)); // NOI18N
417     amountField.setForeground(new java.awt.Color(102, 0, 253));
418     amountField.setName("");
419     amountField.setResetText("Reset");
420     amountField.addActionListener(new java.awt.event.ActionListener() {
421         public void actionPerformed(java.awt.event.ActionEvent evt) {
422             amountFieldActionPerformed(evt);
423         }
424     });
425
426     resetButton1.setBackground(new java.awt.Color(255, 0, 255));
427     resetButton1.setFont(new java.awt.Font("SF Pro Display", 1, 36)); // NOI18N
428     resetButton1.setForeground(new java.awt.Color(102, 0, 153));
429     resetButton1.setText("Reset");
430     resetButton1.addActionListener(new java.awt.event.ActionListener() {
431         public void actionPerformed(java.awt.event.ActionEvent evt) {
432             resetButton1ActionPerformed(evt);
433         }
434     });
435
436     proceedButton1.setBackground(new java.awt.Color(255, 0, 255));
437     proceedButton1.setFont(new java.awt.Font("SF Pro Display", 1, 36)); // NOI18N
438     proceedButton1.setForeground(new java.awt.Color(102, 0, 153));
439     proceedButton1.setText("Proceed");
440     proceedButton1.addActionListener(new java.awt.event.ActionListener() {
441         public void actionPerformed(java.awt.event.ActionEvent evt) {
442             proceedButton1ActionPerformed(evt);
443         }
444     });
445
446     goToDashboardButton.setBackground(new java.awt.Color(255, 0, 255));
447     goToDashboardButton.setFont(new java.awt.Font("SF Pro Display", 1, 36)); // NOI18N
448     goToDashboardButton.setForeground(new java.awt.Color(102, 0, 153));
449     goToDashboardButton.setText("Go to Dashboard");
450     goToDashboardButton.addActionListener(new java.awt.event.ActionListener() {
451         public void actionPerformed(java.awt.event.ActionEvent evt) {
452             goToDashboardButtonActionPerformed(evt);
453         }
454     });
455
456     exitFromWithdrawalButton.setBackground(new java.awt.Color(255, 0, 0));
457     exitFromWithdrawalButton.setFont(new java.awt.Font("SF Pro Display", 1, 36)); // NOI18N
458     exitFromWithdrawalButton.setForeground(new java.awt.Color(102, 0, 153));
459     exitFromWithdrawalButton.setText("EXIT");
460     exitFromWithdrawalButton.addActionListener(new java.awt.event.ActionListener() {
461         public void actionPerformed(java.awt.event.ActionEvent evt) {
462             exitFromWithdrawalButtonActionPerformed(evt);
463         }
464     });
465
466     javax.swing.GroupLayout jPanel19Layout = new javax.swing.GroupLayout(jPanel19);
467     jPanel19.setLayout(jPanel19Layout);
468     jPanel19Layout.setHorizontalGroup(
469         jPanel19Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
470             .addGroup(jPanel19Layout.createSequentialGroup()
471                 .addGroup(jPanel19Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
472                     .addGroup(jPanel19Layout.createSequentialGroup()
473                         .addComponent(jLabel19)
474                         .addGap(18, 18, 18)
475                         .addComponent(amountField, javax.swing.GroupLayout.PREFERRED_SIZE, 359, javax.swing.GroupLayout.PREFERRED_SIZE))
476                     .addGroup(jPanel19Layout.createSequentialGroup()
477                         .addGroup(jPanel19Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
478                             .addComponent(resetButton1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
479                             .addComponent(proceedButton1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
480                         .addGap(18, 18, 18)
481                         .addComponent(goToDashboardButton, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
482                 .addGap(18, 18, 18)
483                 .addComponent(exitFromWithdrawalButton, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
484             )
485         )
486     );

```

```

474         .addGroup(jPanel9Layout.createSequentialGroup()
475             .addComponent(proceedButton1)
476             .addGap(18, 18, 18)
477                 .addComponent(resetButton1)
478             .addComponent(exitFromWithdrawalButton, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
479         .addGap(104, 104, 104))
480     .addContainerGap(434, Short.MAX_VALUE))
481 );
482 jPanel9Layout.setVerticalGroup(
483     jPanel9Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
484     .addGroup(jPanel9Layout.createSequentialGroup()
485         .addGap(141, 141, 141)
486         .addGroup(jPanel9Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
487             .addComponent(jLabel19)
488             .addComponent(amountField, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
489         .addGap(18, 18, 18)
490         .addGroup(jPanel9Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
491             .addComponent(resetButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 51, javax.swing.GroupLayout.PREFERRED_SIZE)
492             .addComponent(proceedButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 51, javax.swing.GroupLayout.PREFERRED_SIZE))
493         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
494         .addComponent(goToDashboardButton, javax.swing.GroupLayout.PREFERRED_SIZE, 51, javax.swing.GroupLayout.PREFERRED_SIZE)
495         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
496         .addComponent(exitFromWithdrawalButton, javax.swing.GroupLayout.PREFERRED_SIZE, 51, javax.swing.GroupLayout.PREFERRED_SIZE)
497         .addContainerGap(133, Short.MAX_VALUE))
498 );
499
500 jPanel10.setBackground(new java.awt.Color(102, 0, 153));
501
502 jLabel11.setFont(new java.awt.Font("SF Pro Display", 1, 24)); // NOI18N
503 jLabel11.setForeground(new java.awt.Color(255, 255, 102));
504 jLabel11.setText("Please enter the amount below. (The maximum limit per transaction is Rs. 20,000/-) ");
505
506 jLabel12.setFont(new java.awt.Font("SF Pro Display", 1, 24)); // NOI18N
507 jLabel12.setForeground(new java.awt.Color(255, 0, 0));
508 jLabel12.setText("CLICK ON THE GO TO DASHBOARD BUTTON TO GO TO THE DASHBOARD");
509
510 jLabel13.setFont(new java.awt.Font("SF Pro Display", 1, 24)); // NOI18N
511 jLabel13.setForeground(new java.awt.Color(255, 0, 0));
512 jLabel13.setText("PLEASE MAKE SURE YOU CLICK THE EXIT BUTTON BEFORE LEAVING.");
513
514 javax.swing.GroupLayout jPanel10Layout = new javax.swing.GroupLayout(jPanel10);
515 jPanel10.setLayout(jPanel10Layout);
516 jPanel10Layout.setHorizontalGroup(
517     jPanel10Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
518         .addGroup(jPanel10Layout.createSequentialGroup()
519             .addGroup(jPanel10Layout.createSequentialGroup()
520                 .addGap(153, 153, 153)
521                 .addGroup(jPanel10Layout.createSequentialGroup()
522                     .addGroup(jPanel10Layout.createSequentialGroup()
523                         .addGap(234, 234, 234)
524                         .addGroup(jPanel10Layout.createSequentialGroup()
525                             .addComponent(jLabel11)
526                             .addGap(18, 18, 18)
527                             .addComponent(jLabel12)
528                             .addGap(0, 0, Short.MAX_VALUE)))
529                         .addGap(0, 0, Short.MAX_VALUE))
530             );
531         );
532     jPanel10Layout.setVerticalGroup(
533         jPanel10Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
534             .addGroup(jPanel10Layout.createSequentialGroup()
535                 .addGap(16, 16, 16)
536                 .addComponent(jLabel11)
537                 .addGap(1, 1, 1)
538                 .addComponent(jLabel12)
539                 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
540                 .addComponent(jLabel13)
541                 .addContainerGap(54, Short.MAX_VALUE))

```



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678         .addComponent(goToDashboardButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 350, javax.swing.GroupLayout.PREFERRED_SIZE)
679         .addGroup(jPanel13Layout.createSequentialGroup()
680             .addGroup(jPanel13Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
681                 .addComponent(proceedButton2)
682                 .addComponent(jLabel17))
683             .addGap(18, 18, 18)
684             .addGroup(jPanel13Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
685                 .addComponent(amountField2, javax.swing.GroupLayout.PREFERRED_SIZE, 359, javax.swing.GroupLayout.PREFERRED_SIZE)
686                 .addComponent(resetButton2)))
687         .addComponent(exitFromWithdrawalButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 350, javax.swing.GroupLayout.PREFERRED_SIZE)))
688     .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
689 );
690 jPanel13Layout.setVerticalGroup(
691     jPanel13Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
692     .addGroup(jPanel13Layout.createSequentialGroup()
693         .addGap(87, 87, 87)
694         .addGroup(jPanel13Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
695             .addComponent(jLabel10)
696             .addComponent(userNameField, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
697         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
698         .addGroup(jPanel13Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
699             .addComponent(jLabel17)
700             .addComponent(amountField2, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
701         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
702         .addGroup(jPanel13Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
703             .addComponent(proceedButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 51, javax.swing.GroupLayout.PREFERRED_SIZE)
704             .addComponent(resetButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 51, javax.swing.GroupLayout.PREFERRED_SIZE))
705         .addGap(13, 13, 13)
706         .addComponent(goToDashboardButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 51, javax.swing.GroupLayout.PREFERRED_SIZE)
707         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
708         .addComponent(exitFromWithdrawalButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 51, javax.swing.GroupLayout.PREFERRED_SIZE)
709     .addContainerGap(143, Short.MAX_VALUE))
710 );
711
712 javax.swing.GroupLayout jPanel11Layout = new javax.swing.GroupLayout(jPanel11);
713 jPanel11.setLayout(jPanel11Layout);
714 jPanel11Layout.setHorizontalGroup(
715     jPanel11Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
716     .addGroup(jPanel11Layout.createSequentialGroup()
717         .addComponent(jPanel12, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
718         .addComponent(jPanel13, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
719     );
720     jPanel11Layout.setVerticalGroup(
721         jPanel11Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
722             .addGroup(jPanel11Layout.createSequentialGroup()
723                 .addComponent(jPanel12, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
724                 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
725                 .addComponent(jPanel13, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
726             );
727
728     jPanelTabbedPane.addTab("tab4", jPanel11);
729
730     jPanel15.setBackground(new java.awt.Color(102, 0, 153));
731
732     jLabel18.setFont(new java.awt.Font("SF Pro Display", 1, 24)); // NOI18N
733     jLabel18.setForeground(new java.awt.Color(255, 255, 102));
734     jLabel18.setText("The table below shows the Debit History");
735
736     jLabel19.setFont(new java.awt.Font("SF Pro Display", 1, 24)); // NOI18N
737     jLabel19.setForeground(new java.awt.Color(255, 0, 0));
738     jLabel19.setText("PLEASE CLICK EXIT BEFORE LEAVING.");
739
740     jLabel20.setFont(new java.awt.Font("SF Pro Display", 1, 24)); // NOI18N
741     jLabel20.setForeground(new java.awt.Color(255, 255, 102));
742     jLabel20.setText("THANK YOU FOR BANKING WITH US. HAVE A NICE DAY :)");
743
744     javax.swing.GroupLayout jPanel15Layout = new javax.swing.GroupLayout(jPanel15);
745     jPanel15.setLayout(jPanel15Layout);

```

```
746 jPanel15Layout.setHorizontalGroup(  
747     jPanel15Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
748     .addGroup(jPanel15Layout.createSequentialGroup()  
749         .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
750         .addGroup(jPanel15Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
751             .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel15Layout.createSequentialGroup()  
752                 .addGroup(jPanel15Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
753                     .addComponent(jLabel18)  
754                     .addGroup(jPanel15Layout.createSequentialGroup()  
755                         .addGap(10, 10, 10)  
756                         .addComponent(jLabel19)))  
757                     .addGap(422, 422, 422)  
758                     .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel15Layout.createSequentialGroup()  
759                         .addComponent(jLabel20)  
760                         .addGap(320, 320, 320))))  
761 );  
762 jPanel15Layout.setVerticalGroup(  
763     jPanel15Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
764     .addGroup(jPanel15Layout.createSequentialGroup()  
765         .addContainerGap()  
766         .addComponent(jLabel18)  
767         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
768         .addComponent(jLabel19)  
769         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
770         .addComponent(jLabel20)  
771         .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))  
772 );  
773  
774 jPanel16.setBackground(new java.awt.Color(102, 0, 153));  
775  
776 jLabel21.setFont(new java.awt.Font("SF Pro Display", 1, 24)); // NOI18N  
777 jLabel21.setForeground(new java.awt.Color(255, 0, 255));  
778 jLabel21.setText("Debit History");  
779  
780 jLabel22.setFont(new java.awt.Font("SF Pro Display", 1, 24)); // NOI18N  
781 jLabel22.setForeground(new java.awt.Color(255, 0, 255));  
782 jLabel22.setText("Date");  
783  
784 jLabel23.setFont(new java.awt.Font("SF Pro Display", 1, 24)); // NOI18N  
785 jLabel23.setForeground(new java.awt.Color(255, 0, 255));  
786 jLabel23.setText("Time");  
787  
788 jLabel24.setFont(new java.awt.Font("SF Pro Display", 1, 24)); // NOI18N  
789 jLabel24.setForeground(new java.awt.Color(255, 0, 255));  
790 jLabel24.setText("Amount Debited (Rs.)");  
791  
792 date1.setFont(new java.awt.Font("SF Pro Display", 1, 24)); // NOI18N  
793 date1.setForeground(new java.awt.Color(255, 0, 255));  
794 date1.setText("date1");  
795  
796 date2.setFont(new java.awt.Font("SF Pro Display", 1, 24)); // NOI18N  
797 date2.setForeground(new java.awt.Color(255, 0, 255));  
798 date2.setText("date2");  
799  
800 date3.setFont(new java.awt.Font("SF Pro Display", 1, 24)); // NOI18N  
801 date3.setForeground(new java.awt.Color(255, 0, 255));  
802 date3.setText("date3");  
803  
804 date4.setFont(new java.awt.Font("SF Pro Display", 1, 24)); // NOI18N  
805 date4.setForeground(new java.awt.Color(255, 0, 255));  
806 date4.setText("date4");  
807  
808 date5.setFont(new java.awt.Font("SF Pro Display", 1, 24)); // NOI18N  
809 date5.setForeground(new java.awt.Color(255, 0, 255));  
810 date5.setText("date5");  
811  
812 time1.setFont(new java.awt.Font("SF Pro Display", 1, 24)); // NOI18N  
813 time1.setForeground(new java.awt.Color(255, 0, 255));
```



```
882     .addGroup(jPanel16Layout.createSequentialGroup()
883         .addGap(284, 284)
884         .addComponent(jLabel121))
885     .addGroup(jPanel16Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
886         .addGroup(jPanel16Layout.createSequentialGroup()
887             .addComponent(jLabel122)
888             .addGap(202, 202)
889             .addComponent(jLabel123)
890             .addGap(159, 159, 159)
891             .addComponent(jLabel124))
892         .addGroup(jPanel16Layout.createSequentialGroup()
893             .addGroup(jPanel16Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
894                 .addGroup(jPanel16Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
895                     .addComponent(date3)
896                     .addComponent(date2)
897                     .addComponent(date4))
898                 .addComponent(date1)
899                 .addComponent(date5))
900             .addGap(125, 125, 125)
901         .addGroup(jPanel16Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
902             .addComponent(time2, javax.swing.GroupLayout.PREFERRED_SIZE, 181, javax.swing.GroupLayout.PREFERRED_SIZE)
903             .addComponent(time1, javax.swing.GroupLayout.PREFERRED_SIZE, 181, javax.swing.GroupLayout.PREFERRED_SIZE)
904             .addComponent(time3, javax.swing.GroupLayout.PREFERRED_SIZE, 182, javax.swing.GroupLayout.PREFERRED_SIZE)
905             .addComponent(time4, javax.swing.GroupLayout.PREFERRED_SIZE, 182, javax.swing.GroupLayout.PREFERRED_SIZE)
906             .addComponent(time5, javax.swing.GroupLayout.PREFERRED_SIZE, 182, javax.swing.GroupLayout.PREFERRED_SIZE))
907         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
908     .addGroup(jPanel16Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
909         .addGroup(jPanel16Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
910             .addComponent(amount1, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED_SIZE, 114, javax.swing.GroupLayout.PREFERRED_SIZE)
911             .addComponent(amount2, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED_SIZE, 114, javax.swing.GroupLayout.PREFERRED_SIZE)
912             .addComponent(amount3, javax.swing.GroupLayout.PREFERRED_SIZE, 113, javax.swing.GroupLayout.PREFERRED_SIZE)
913             .addComponent(amount4)
914             .addComponent(amount5, javax.swing.GroupLayout.PREFERRED_SIZE, 113, javax.swing.GroupLayout.PREFERRED_SIZE))
915         .addGap(78, 78, 78)))
916     .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 750, javax.swing.GroupLayout.PREFERRED_SIZE)
917     .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED_SIZE, 750, javax.swing.GroupLayout.PREFERRED_SIZE))
918     .addGap(290, 290, 290)
919     .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel16Layout.createSequentialGroup()
920         .addGroup(jPanel16Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
921             .addComponent(exitFromWithdrawalButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 350, javax.swing.GroupLayout.PREFERRED_SIZE)
922             .addComponent(goToDashboardButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 350, javax.swing.GroupLayout.PREFERRED_SIZE))
923         .addGap(503, 503, 503)))
924 );
925 jPanel16Layout.setVerticalGroup(
926     jPanel16Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
927     .addGroup(jPanel16Layout.createSequentialGroup()
928         .addContainerGap()
929         .addComponent(jLabel21)
930         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
931         .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED_SIZE, 8, javax.swing.GroupLayout.PREFERRED_SIZE)
932         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
933         .addGroup(jPanel16Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
934             .addComponent(jLabel122)
935             .addComponent(jLabel123)
936             .addComponent(jLabel124))
937         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
938         .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10, javax.swing.GroupLayout.PREFERRED_SIZE)
939         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
940         .addGroup(jPanel16Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
941             .addComponent(date1)
942             .addComponent(time1)
943             .addComponent(amount1))
944         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
945         .addGroup(jPanel16Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
946             .addComponent(date2)
947             .addComponent(time2)
948             .addComponent(amount2))
949         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
```

```

950     .addGroup(jPanel16Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
951         .addComponent(date3)
952         .addComponent(time3)
953         .addComponent(amount3))
954     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
955     .addGroup(jPanel16Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
956         .addComponent(date4)
957         .addComponent(time4)
958         .addComponent(amount4))
959     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
960     .addGroup(jPanel16Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
961         .addComponent(date5)
962         .addComponent(time5)
963         .addComponent(amount5))
964     .addGap(28, 28, 28)
965     .addComponent(goToDashboardButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 51, javax.swing.GroupLayout.PREFERRED_SIZE)
966     .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
967     .addComponent(exitFromWithdrawalButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 51, javax.swing.GroupLayout.PREFERRED_SIZE)
968     .addContainerGap(132, Short.MAX_VALUE))
969 );
970
971 javax.swing.GroupLayout jPanel14Layout = new javax.swing.GroupLayout(jPanel14);
972 jPanel14.setLayout(jPanel14Layout);
973 jPanel14Layout.setHorizontalGroup(
974     jPanel14Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
975         .addComponent(jPanel15, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
976         .addComponent(jPanel16, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
977 );
978 jPanel14Layout.setVerticalGroup(
979     jPanel14Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
980         .addGroup(jPanel14Layout.createSequentialGroup()
981             .addComponent(jPanel15, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
982             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
983             .addComponent(jPanel16, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
984 );
985
986 jTabbedPane1.addTab("tab5", jPanel14);
987
988 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
989 getContentPane().setLayout(layout);
990 layout.setHorizontalGroup(
991     layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
992         .addComponent(jPanel11, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
993         .addComponent(jTabbedPane1)
994 );
995 layout.setVerticalGroup(
996     layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
997         .addGroup(layout.createSequentialGroup()
998             .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
999             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
1000             .addComponent(jTabbedPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 680, javax.swing.GroupLayout.PREFERRED_SIZE)
1001             .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
1002 );
1003
1004 jTabbedPane1.getAccessibleContext().setAccessibleName("tab1");
1005
1006 pack();
1007 setLocationRelativeTo(null);
1008 } // </editor-fold>
1009
1010 private void proceedButtonActionPerformed(java.awt.event.ActionEvent evt) {
1011     try {
1012         String pinString = String.valueOf(pinField.getPassword());
1013         String cardNumber = cardNumberField.getText();
1014         int pinFromPassField = Integer.parseInt(pinString);
1015
1016         String Query = "Select * from userInfo where cardNumber = '" + cardNumber + "' ;";
1017         Class.forName("com.mysql.jdbc.Driver");

```

```

1018     Connection con = DriverManager.getConnection("jdbc:mysql://localhost/atm", "root", "Kishan@1072");
1019     Statement st = con.createStatement();
1020     ResultSet rs = st.executeQuery(Query);
1021     rs.next();
1022
1023     int pin = rs.getInt(3);
1024     String card = rs.getString(2);
1025     user = rs.getString(1);
1026
1027     if(cardNumber.equals(card) && pinFromPassField == pin) {
1028         jTabbedPane1.setSelectedIndex(1);
1029         cardNumberField.setText("");
1030         pinField.setText("");
1031     }
1032     else if(cardNumber.equals(card) && pinFromPassField != pin){
1033         JOptionPane.showMessageDialog(this, "<html>The pin you entered is incorrect<br>Please Re-enter the pin</br></html>", "Invalid details entered", JOptionPane.WARNING_MESSAGE);
1034         pinField.setText("");
1035     }
1036 }
1037 catch(Exception e) {
1038     JOptionPane.showMessageDialog(this, "Please enter a valid card number", "Invalid details entered", JOptionPane.WARNING_MESSAGE);
1039     cardNumberField.setText("");
1040     pinField.setText("");
1041 }
1042 }
1043
1044 private void resetButtonActionPerformed(java.awt.event.ActionEvent evt) {
1045     this.cardNumberField.setText("");
1046     this.pinField.setText("");
1047 }
1048
1049 private void balanceInfoButtonActionPerformed(java.awt.event.ActionEvent evt) {
1050     try {
1051         Class.forName("com.mysql.jdbc.Driver");
1052         Connection con = DriverManager.getConnection("jdbc:mysql://localhost/atm", "root", "Kishan@1072");
1053         String Query = "Select * from userInfo where name = '" + user + "';";
1054         Statement st = con.createStatement();
1055         ResultSet rs = st.executeQuery(Query);
1056         rs.next();
1057         float balanceAmountFromDatabase = rs.getFloat(4);
1058         JOptionPane.showMessageDialog(this, "<html>The balance amount is Rs. <b>" + balanceAmountFromDatabase + "</b></br></html>", "Balance", JOptionPane.INFORMATION_MESSAGE);
1059     }
1060     catch (Exception e) {
1061         JOptionPane.showMessageDialog(this, "Please retry logging in", "Something Went Wrong", JOptionPane.ERROR_MESSAGE);
1062         jTabbedPane1.setSelectedIndex(0);
1063     }
1064 }
1065
1066 private void cashWithDrawalButtonActionPerformed(java.awt.event.ActionEvent evt) {
1067     jTabbedPane1.setSelectedIndex(2);
1068 }
1069
1070 private void exitButtonActionPerformed(java.awt.event.ActionEvent evt) {
1071     int result;
1072     result = JOptionPane.showConfirmDialog(this, "Are you sure you want to Exit?", "Confirm Exit", JOptionPane.YES_NO_CANCEL_OPTION);
1073     if(result == JOptionPane.YES_OPTION) {
1074         jTabbedPane1.setSelectedIndex(0);
1075     }
1076 }
1077
1078 private void transferButtonActionPerformed(java.awt.event.ActionEvent evt) {
1079     jTabbedPane1.setSelectedIndex(3);
1080 }
1081
1082 private void debitHistoryButtonActionPerformed(java.awt.event.ActionEvent evt) {
1083     date1.setText(" ");
1084     date2.setText(" ");
1085     date3.setText(" ");

```

```
1086     date4.setText(" ");
1087     date5.setText(" ");
1088 
1089     time1.setText(" ");
1090     time2.setText(" ");
1091     time3.setText(" ");
1092     time4.setText(" ");
1093     time5.setText(" ");
1094 
1095     amount1.setText(" ");
1096     amount2.setText(" ");
1097     amount3.setText(" ");
1098     amount4.setText(" ");
1099     amount5.setText(" ");
1100 
1101     try {
1102         Class.forName("com.mysql.jdbc.Driver");
1103         Connection con = DriverManager.getConnection("jdbc:mysql://localhost/atm", "root", "Kishan@1072");
1104         String Query = "select * from " + user + " order by dt desc, tm desc limit 5;";
1105         Statement st = con.createStatement();
1106         ResultSet rs = st.executeQuery(Query);
1107         int i = 1;
1108 
1109         while(rs.next()) {
1110             if(i == 1) {
1111                 date1.setText(rs.getString(1));
1112                 time1.setText(rs.getString(2));
1113                 amount1.setText(Float.toString(rs.getFloat(3)));
1114             }
1115             else if(i == 2) {
1116                 date2.setText(rs.getString(1));
1117                 time2.setText(rs.getString(2));
1118                 amount2.setText(Float.toString(rs.getFloat(3)));
1119             }
1120             else if(i == 3) {
1121                 date3.setText(rs.getString(1));
1122                 time3.setText(rs.getString(2));
1123                 amount3.setText(Float.toString(rs.getFloat(3)));
1124             }
1125             else if(i == 4) {
1126                 date4.setText(rs.getString(1));
1127                 time4.setText(rs.getString(2));
1128                 amount4.setText(Float.toString(rs.getFloat(3)));
1129             }
1130             else if(i == 5) {
1131                 date5.setText(rs.getString(1));
1132                 time5.setText(rs.getString(2));
1133                 amount5.setText(Float.toString(rs.getFloat(3)));
1134             }
1135             else {
1136                 break;
1137             }
1138             i++;
1139         }
1140         jTabbedPane1.setSelectedIndex(4);
1141     }
1142     catch(Exception e) {
1143         JOptionPane.showMessageDialog(this, "Something Went Wrong, Please Try again in a moment.");
1144     }
1145 }
1146 
1147 private void resetButton1ActionPerformed(java.awt.event.ActionEvent evt) {
1148     amountField.setText("");
1149 }
1150 
1151 private void proceedButton1ActionPerformed(java.awt.event.ActionEvent evt) {
1152     float balanceAmountFromDatabase, amount;
1153     try {
```

```

1154     amount = Float.parseFloat(amountField.getText());
1155     Class.forName("com.mysql.jdbc.Driver");
1156     Connection con = DriverManager.getConnection("jdbc:mysql://localhost/atm", "root", "Kishan@1072");
1157     java.util.Date date = new java.util.Date();
1158     java.sql.Date sqlDate = new java.sql.Date(date.getTime());
1159     java.sql.Timestamp sqlTime = new java.sql.Timestamp(date.getTime());
1160     String Query = "Select * from userInfo where name = '" + user + "' ;";
1161     Statement st = con.createStatement();
1162     ResultSet rs = st.executeQuery(Query);
1163     rs.next();
1164     balanceAmountFromDatabase = rs.getFloat(4);
1165
1166     if(amount <= balanceAmountFromDatabase) {
1167
1168         PreparedStatement ps = con.prepareStatement("insert into " + user + " values(?, ?, " + amount + ")");
1169         ps.setDate(1, sqlDate);
1170         ps.setTimestamp(2, sqlTime);
1171         ps.executeUpdate();
1172
1173         String Query2;
1174         balanceAmountFromDatabase -= amount;
1175         Query2 = "Update userInfo set balanceAmount = " + balanceAmountFromDatabase + " where name = '" + user + "' ;";
1176         Statement stmt = con.createStatement();
1177         stmt.executeUpdate(Query2);
1178
1179         JOptionPane.showMessageDialog(this, "<html>Transaction Successfully Completed<br/><b>Please collect the amount before leaving</b></html>", "Success!", JOptionPane.INFORMATION_MESSAGE);
1180         jTabbedPane1.setSelectedIndex(0);
1181         ps.close();
1182     }
1183     else if(balanceAmountFromDatabase == 0 || amount > balanceAmountFromDatabase) {
1184         JOptionPane.showMessageDialog(this, "The account does not have sufficient balance!", "Insufficient balance!", JOptionPane.ERROR_MESSAGE);
1185         amountField.setText("");
1186     }
1187     con.close();
1188     amountField.setText("");
1189 }
1190 catch (Exception e) {
1191     JOptionPane.showMessageDialog(this, "Please enter a valid amount");
1192     amountField.setText("");
1193 }
1194 }
1195
1196 private void goToDashboardButtonActionPerformed(java.awt.event.ActionEvent evt) {
1197     amountField.setText("");
1198     jTabbedPane1.setSelectedIndex(1);
1199 }
1200
1201 private void exitFromWithdrawalButtonActionPerformed(java.awt.event.ActionEvent evt) {
1202     int result;
1203     amountField.setText("");
1204     result = JOptionPane.showConfirmDialog(this, "Are you sure you want to Exit?", "Confirm Exit", JOptionPane.YES_NO_CANCEL_OPTION);
1205     if(result == JOptionPane.YES_OPTION) {
1206         jTabbedPane1.setSelectedIndex(0);
1207     }
1208 }
1209
1210 private void resetButton2ActionPerformed(java.awt.event.ActionEvent evt) {
1211     userNameField.setText("");
1212     amountField2.setText("");
1213 }
1214
1215 private void proceedButton2ActionPerformed(java.awt.event.ActionEvent evt) {
1216     receiverUserName = userNameField.getText();
1217     String amountEntered = amountField2.getText();
1218     float balanceAmountFromDatabase;
1219     float amountEnteredFloat = Float.parseFloat(amountEntered);
1220     try {
1221         Class.forName("com.mysql.jdbc.Driver");

```

```

1222 Connection con = DriverManager.getConnection("jdbc:mysql://localhost/atm", "root", "Kishan@1072");
1223
1224 java.util.Date date = new java.util.Date();
1225 java.sql.Date sqlDate = new java.sql.Date(date.getTime());
1226 java.sql.Timestamp sqlTime = new java.sql.Timestamp(date.getTime());
1227
1228 String Query = "Select * from userInfo where name = '" + user + "'";
1229 Statement st = con.createStatement();
1230 ResultSet rs = st.executeQuery(Query);
1231 rs.next();
1232 balanceAmountFromDatabase = rs.getFloat(4);
1233
1234 String Query1 = "Select * from userInfo where name = '" + receiverUserName + "'";
1235 Statement st1 = con.createStatement();
1236 ResultSet rs2 = st1.executeQuery(Query1);
1237 rs2.next();
1238 receiverBalance = rs2.getFloat(4);
1239
1240 if(balanceAmountFromDatabase >= amountEnteredFloat) {
1241     balanceAmountFromDatabase -= amountEnteredFloat;
1242     receiverBalance += amountEnteredFloat;
1243     String Query2 = "Update userInfo set balanceAmount = " + balanceAmountFromDatabase + " where name = '" + user + "'";
1244     String Query3 = "Update userInfo set balanceAmount = " + receiverBalance + " where name = '" + receiverUserName + "'";
1245     st.executeUpdate(Query2);
1246     st.executeUpdate(Query3);
1247     userNameField.setText("");
1248     amountField2.setText("");
1249     JOptionPane.showMessageDialog(this, "The Transaction is completed successfully", "Success", JOptionPane.INFORMATION_MESSAGE);
1250
1251     PreparedStatement ps = con.prepareStatement("insert into " + user + " values(?,?," + amountEnteredFloat + ")");
1252     ps.setDate(1, sqlDate);
1253     ps.setTimestamp(2, sqlTime);
1254     ps.executeUpdate();
1255 }
1256 else {
1257     JOptionPane.showMessageDialog(this, "The account does not have sufficient balance!", "Insufficient balance!", JOptionPane.ERROR_MESSAGE);
1258     amountField2.setText("");
1259 }
1260
1261 catch(Exception e) {
1262     JOptionPane.showMessageDialog(this, "The User Name or amount entred is Invalid", "Invalid details", JOptionPane.ERROR_MESSAGE);
1263     userNameField.setText("");
1264     amountField2.setText("");
1265 }
1266
1267 private void goToDashboardButton1ActionPerformed(java.awt.event.ActionEvent evt) {
1268     userNameField.setText("");
1269     amountField2.setText("");
1270     jTabbedPane1.setSelectedIndex(1);
1271 }
1272
1273
1274 private void exitFromWithdrawalButton1ActionPerformed(java.awt.event.ActionEvent evt) {
1275     int result;
1276     userNameField.setText("");
1277     amountField2.setText("");
1278     result = JOptionPane.showConfirmDialog(this, "Are you sure you want to Exit?", "Confirm Exit", JOptionPane.YES_NO_CANCEL_OPTION);
1279     if(result == JOptionPane.YES_OPTION) {
1280         jTabbedPane1.setSelectedIndex(0);
1281     }
1282 }
1283
1284 private void exitFromWithdrawalButton2ActionPerformed(java.awt.event.ActionEvent evt) {
1285     int result;
1286     result = JOptionPane.showConfirmDialog(this, "Are you sure you want to Exit?", "Confirm Exit", JOptionPane.YES_NO_CANCEL_OPTION);
1287     if(result == JOptionPane.YES_OPTION) {
1288         jTabbedPane1.setSelectedIndex(0);
1289     }

```

```
1290 }
1291
1292 private void goToDashboardButton2ActionPerformed(java.awt.event.ActionEvent evt) {
1293     jTabbedPane1.setSelectedIndex(1);
1294 }
1295
1296 public static void main(String args[]) {
1297     // Code auto-generated by the IDE
1298     java.awt.EventQueue.invokeLater(new Runnable() {
1299         public void run() {
1300             new LoginActivity().setVisible(true);
1301         }
1302     });
1303 }
1304
1305 // Variables declaration - do not modify
1306 private javax.swing.JLabel amount1;
1307 private javax.swing.JLabel amount2;
1308 private javax.swing.JLabel amount3;
1309 private javax.swing.JLabel amount4;
1310 private javax.swing.JLabel amount5;
1311 private javax.swing.JTextField amountField;
1312 private javax.swing.JTextField amountField2;
1313 private javax.swing.JButton balanceInfoButton;
1314 private javax.swing.JTextField cardNumberField;
1315 private javax.swing.JButton cashWithDrawalButton;
1316 private javax.swing.JLabel date1;
1317 private javax.swing.JLabel date2;
1318 private javax.swing.JLabel date3;
1319 private javax.swing.JLabel date4;
1320 private javax.swing.JLabel date5;
1321 private javax.swing.JButton debitHistoryButton;
1322 private javax.swing.JButton exitButton;
1323 private javax.swing.JButton exitFromWithdrawalButton;
1324 private javax.swing.JButton exitFromWithdrawalButton1;
1325 private javax.swing.JButton exitFromWithdrawalButton2;
1326 private javax.swing.JButton goToDashboardButton;
1327 private javax.swing.JButton goToDashboardButton1;
1328 private javax.swing.JButton goToDashboardButton2;
1329 private javax.swing.JLabel jLabel1;
1330 private javax.swing.JLabel jLabel10;
1331 private javax.swing.JLabel jLabel11;
1332 private javax.swing.JLabel jLabel12;
1333 private javax.swing.JLabel jLabel13;
1334 private javax.swing.JLabel jLabel14;
1335 private javax.swing.JLabel jLabel15;
1336 private javax.swing.JLabel jLabel16;
1337 private javax.swing.JLabel jLabel17;
1338 private javax.swing.JLabel jLabel18;
1339 private javax.swing.JLabel jLabel19;
1340 private javax.swing.JLabel jLabel2;
1341 private javax.swing.JLabel jLabel20;
1342 private javax.swing.JLabel jLabel21;
1343 private javax.swing.JLabel jLabel22;
1344 private javax.swing.JLabel jLabel23;
1345 private javax.swing.JLabel jLabel24;
1346 private javax.swing.JLabel jLabel3;
1347 private javax.swing.JLabel jLabel4;
1348 private javax.swing.JLabel jLabel5;
1349 private javax.swing.JLabel jLabel6;
1350 private javax.swing.JLabel jLabel7;
1351 private javax.swing.JLabel jLabel8;
1352 private javax.swing.JLabel jLabel9;
1353 private javax.swing.JPanel jPanel1;
1354 private javax.swing.JPanel jPanel10;
1355 private javax.swing.JPanel jPanel11;
1356 private javax.swing.JPanel jPanel12;
1357 private javax.swing.JPanel jPanel13;
```

```
1358 private javax.swing.JPanel jPanel14;
1359 private javax.swing.JPanel jPanel15;
1360 private javax.swing.JPanel jPanel16;
1361 private javax.swing.JPanel jPanel12;
1362 private javax.swing.JPanel jPanel13;
1363 private javax.swing.JPanel jPanel14;
1364 private javax.swing.JPanel jPanel15;
1365 private javax.swing.JPanel jPanel16;
1366 private javax.swing.JPanel jPanel17;
1367 private javax.swing.JPanel jPanel18;
1368 private javax.swing.JPanel jPanel19;
1369 private javax.swing.JSeparator jSeparator1;
1370 private javax.swing.JSeparator jSeparator2;
1371 private javax.swing.JTabbedPane jTabbedPane1;
1372 private javax.swing.JPasswordField pinField;
1373 private javax.swing.JButton proceedButton;
1374 private javax.swing.JButton proceedButton1;
1375 private javax.swing.JButton proceedButton2;
1376 private javax.swing.JButton resetButton;
1377 private javax.swing.JButton resetButton1;
1378 private javax.swing.JButton resetButton2;
1379 private javax.swing.JLabel time1;
1380 private javax.swing.JLabel time2;
1381 private javax.swing.JLabel time3;
1382 private javax.swing.JLabel time4;
1383 private javax.swing.JLabel time5;
1384 private javax.swing.JButton transferButton;
1385 private javax.swing.JTextField userNameField;
1386 // End of variables declaration
1387 }
1388
```

Login Page



State Bank Of India

Welcome to the Automated Teller Machine

YOUR PIN IS CONFIDENTIAL NOBODY SHOULD SEE THE PIN
WHILE YOU ARE ENTERING IT. MAKE YOUR PIN MORE SECURE BY CHANGING IT FREQUENTLY

Card Number:

Pin:

Proceed

Reset

If the user enters an Invalid card number



State Bank Of India

Welcome to the Automated Teller Machine

YOUR PIN IS CONFIDENTIAL NOBODY SHOULD SEE THE PIN
WHILE YOU ARE ENTERING IT. MAKE YOUR PIN MORE SECURE BY CHANGING IT FREQUENTLY

Card Num:

548486468

Pin: ••••

Proceed

Reset



If the user enters valid card number and pin



Welcome to the dashboard
PLEASE CLICK THE EXIT BUTTON BEFORE LEAVING

Cash Withdrawal

Balance Info

Transfer

Debit History

EXIT

If the user clicks Cash Withdrawal



Please enter the amount below. (The maximum limit per transaction is Rs. 20,000/-)
CLICK ON THE GO TO DASHBOARD BUTTON TO GO TO THE DASHBOARD
PLEASE MAKE SURE YOU CLICK THE EXIT BUTTON BEFORE LEAVING.

Amount:

Proceed **Reset**

Go to Dashboard

EXIT

If the user enters an invalid amount



State Bank Of India

Please enter the amount below. (The maximum limit per transaction is Rs. 20,000/-)
CLICK ON THE GO TO DASHBOARD BUTTON TO GO TO THE DASHBOARD
PLEASE MAKE SURE YOU CLICK THE EXIT BUTTON BEFORE LEAVING.

Amount:



Proceed **Reset**

Go to Dashboard

EXIT

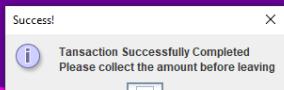
Transaction Successful



State Bank Of India

Please enter the amount below. (The maximum limit per transaction is Rs. 20,000/-)
CLICK ON THE GO TO DASHBOARD BUTTON TO GO TO THE DASHBOARD
PLEASE MAKE SURE YOU CLICK THE EXIT BUTTON BEFORE LEAVING.

Amount:



Proceed **Reset**

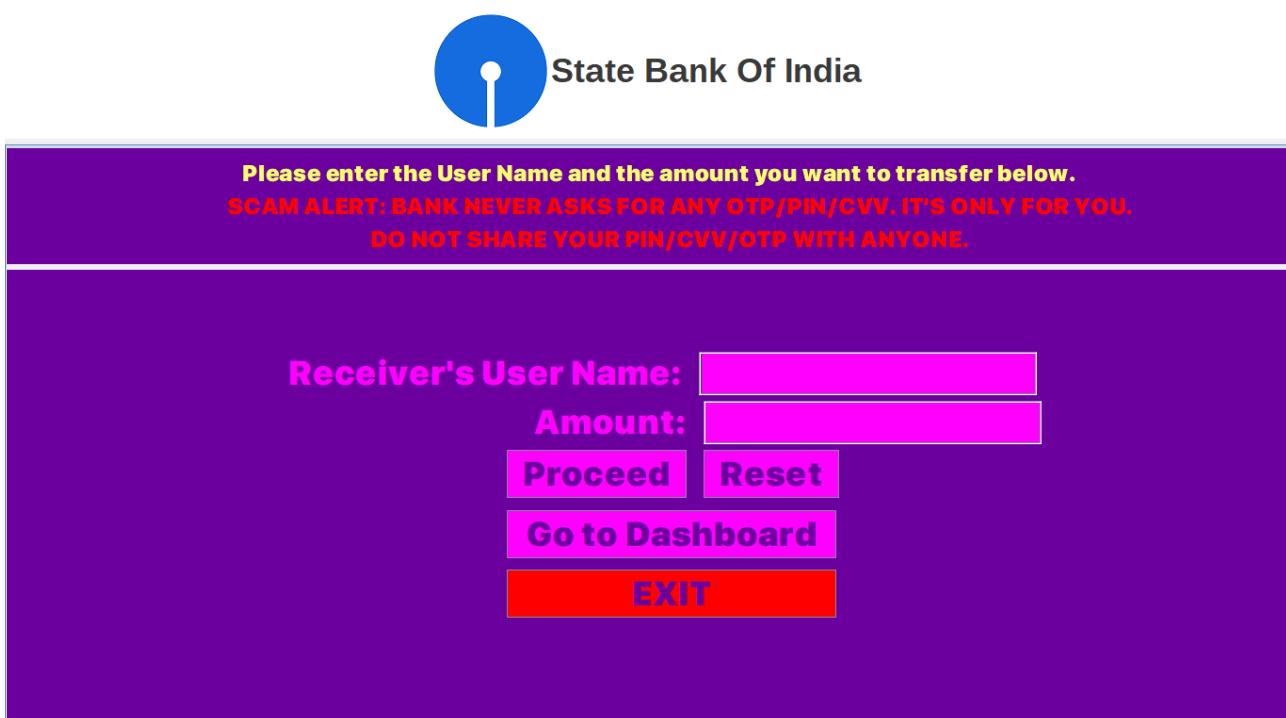
Go to Dashboard

EXIT

If the user clicks balance info



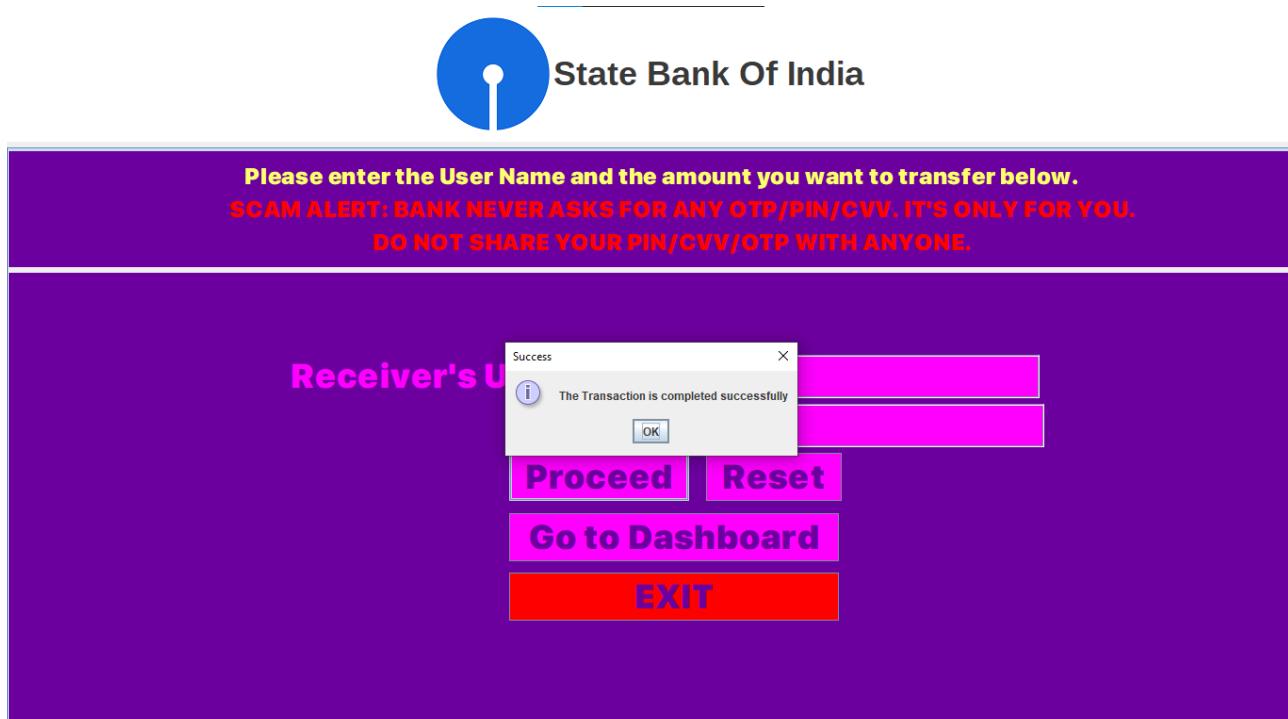
If the user clicks transfer button



If the user enters an invalid user name or amount



Successful Transaction



If the user clicks Debit History



State Bank Of India

The table below shows the Debit History

PLEASE CLICK EXIT BEFORE LEAVING.

THANK YOU FOR BANKING WITH US. HAVE A NICE DAY :)

Debit History

Date	Time	Amount Debited (Rs.)
2021-12-09	23:28:16	700.0
2021-12-09	23:25:07	100.0
2021-12-09	15:53:30	100.0

[Go to Dashboard](#)

[EXIT](#)