SHOPPIE

PROJECT DOCUMENTATION

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SHOPPIE

A PROJECT Done By

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ABSTRACT

The project objective is to provide a portal for buying and selling. Shoppie is a desktop based application which provides shopping services. It can have various brands, customers and merchants.

This application will provide an interactive and ease of use platform for users and merchants to buy and sell products at the comfort of home.

It would make searching, viewing and selection of a product easier. It contains a sophisticated search engine for users to search for products specific to their needs. The search engine provides an easy and convenient way to search for products.

Considering this pandemic time, it would be a helping tool for the ones who want to shop from their home.

PROJECT DESCRIPTION:

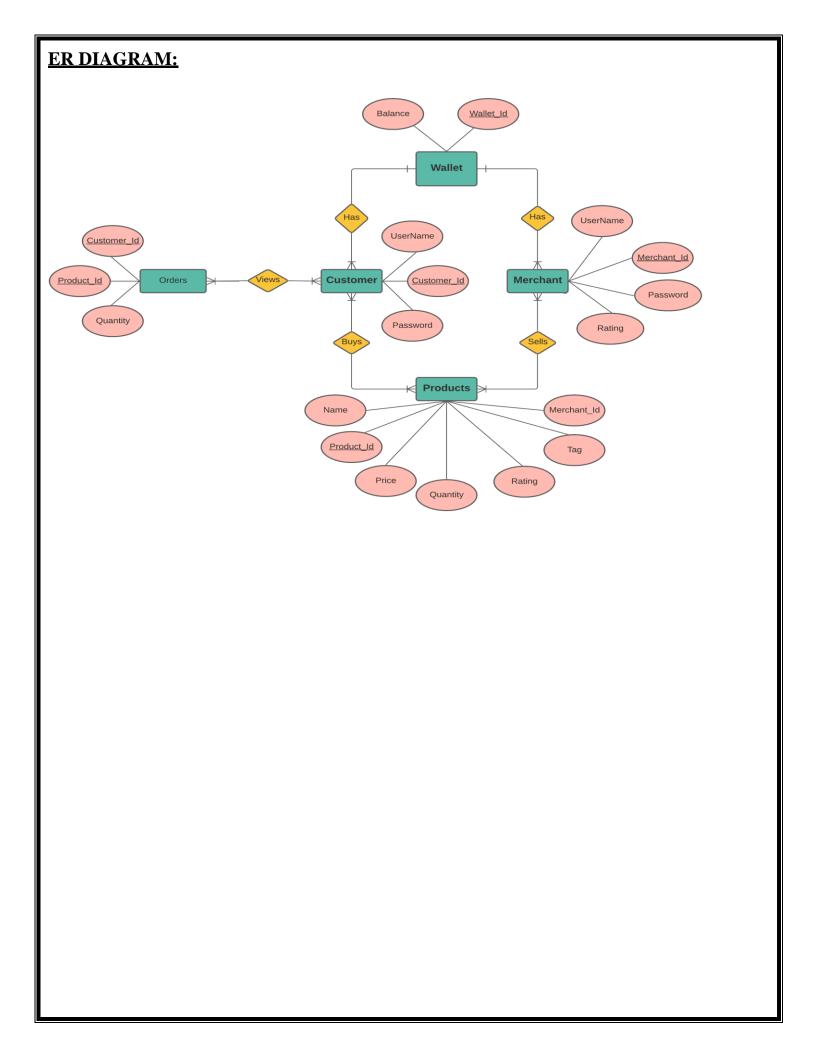
Shoppie is a desktop based E-Commerce application which provides the an intuitive and easy to use platform for the buyers and sellers.

Shoppie is different from the already existing E-Commerce applications. With this application it is possible for both the buyers and sellers to buy/sell products.

Customers can give rating to the products listed by the merchants and to the merchants themselves based on the quality of products being sold.

Using this application, shops can provide a portal where their customers can enjoy easy shopping from anywhere, It helps buying the products in the shop anywhere by using a desktop application. Thus the customer will get the service of online shopping and home delivery from his favorite shop.

For newly started businesses, this application becomes very helpful by providing them with customers.



SOFTWARE REQUIREMENTS:

- a) Operating System Windows 7 and above
- b) JAVA Development Kit (JDK 8)
- c) MySQL Database version 5.7 and above with appropriate Driver Connectors

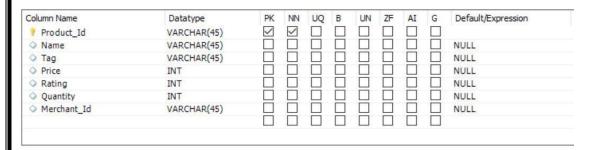
DATABASE TABLES:

LIST OF TABLES:

- > CART
- > CUSTOMER
- > MERCHANT
- > ORDERS
- > PRODUCTS
- > WALLET

PRODUCTS TABLE:

ATTRIBUTES:



Primary key: Product_Id Foreign Key: Merchant_Id

Table:

	Product_Id	Name	Tag	Price	Rating	Quantity	Merchant_Id
١	p1	apple iphone X	phone/apple	80000	4	4	m4
	p2	samsung 7s phone	phone/samsung	60000	5	7	m2
	p3	hp pavillion x360 laptop	laptop/hp	85000	4	2	m2
	p4	realme buds	earphone/realme	1200	2	3	m2
	p5	axe intense perfume	perfume/axe	600	1	1	m5
	p6	dove daily care shampoo	shampoo/dove	500	3	2	m1
	HULL	NULL	HULL	HULL	NULL	NULL	HULL

ORDERS TABLE:

ATTRIBUTES:

Column Name	Datatype	PK	NN	UQ	В	UN	ZF	AI	G	Default/Expression
Customer_Id	VARCHAR(45)	VARCHAR(45)								
<pre>Product_Id</pre>	VARCHAR(45)	~	~							
Quantity	INT									NULL
			U SV	1000000		10		5350	B	

Primary key : Customer_Id, Product_Id Foreign Key : Customer_Id, Product_Id

<u>Table :</u>

	Customer_Id	Product_Id	Quantity		
þ.	c1	p2	2		
	c1	p4	1		
	c2	p3	1		
	c3	p1	1		
	c4	p5	4		
	c5	p2	1		
	NULL	HULL	NULL		

WALLET TABLE:

ATTRIBUTES:

Column Name	Datatype	PK	NN	UQ	В	UN	ZF	AI	G	Default/Expression
Wallet_Id	VARCHAR(45)	~	V							
♦ Balance	INT									NULL

Primary key : Wallet_Id

Table:

	Wallet_Id	Balance
١	c1	80000
	c2	4500
	c3	25000
	m1	65000
	m2	95000
	m3	45000
	HULL	NULL

CUSTOMERTABLE:

ATTRIBUTES:

Column Name	Datatype	PK	NN	UQ	В	UN	ZF	AI	G	Default/Expression
<pre>Customer_Id</pre>	VARCHAR(45)	\checkmark	V							
♦ UserName	VARCHAR(45)									NULL
◇ Password	VARCHAR(45)									NULL

Primary key: Customer_Id

Table :

	Customer_Id	UserName	Password			
١	c1	siddarth	sidd			
	c2	rahul	rahu			
	c3	vijay	vija vikr			
	c4	vikram				
	c5	pawan	pawa			
	NULL	NULL	NULL			

MERCHANT TABLE:

ATTRIBUTES:

Column Name	Datatype	PK	NN	UQ	В	UN	ZF	AI	G	Default/Expression
Merchant_Id	VARCHAR(45)	~								The control of the co
♦ UserName	VARCHAR(45)									NULL
◇ Password	VARCHAR(45)									NULL
◇ Rating	INT									NULL

PRIMARY KEY: Merchant_ld

TABLE:

	Merchant_Id	UserName	Password	Rating
١	m1	rohith	rohi	4
	m2	deepak	deep	2
	m3	preetham	pree	5
	m4 shankar m5 manikanta		shan	3
			mani	1
	m6	vikranth	vikr	4
	NULL	NULL	NULL	NULL

CART TABLE: ATTRIBUTES:

Column Name Customer_Id	Datatype VARCHAR(45)	PK	NN	UQ	В	UN	ZF	AI	G	Default/Expression
◇ Products	VARCHAR(90)									NULL

PRIMARY KEY: Customer_Id

TABLE:

	Customer_Id	Products
	c1	p1,p3
	c2	p2,p3,p4
	c5	p6
	c8	p2,p1
**	1	NULL

CODE:

Conn.java

```
CustomerRegister.java
import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import java.awt.Font;
import java.awt.Color;
import javax.swing.JTextField;
import javax.swing.JTextArea;
import javax.swing.JButton;
import javax.swing.JTextPane;
import java.awt.event.ActionListener;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.awt.event.ActionEvent;
import javax.swing.JPanel;
import java.awt.SystemColor;
public class CustomerRegister {
       private JFrame frame;
       private JTextField textField;
       private JTextField textField_1;
       private JTextField textField_2;
       private JTextField textField 3;
       private JTextField textField_4;
       private JTextField textField_6;
       public Login loginobj;
        /**
        * Launch the application.
       public static void main(String[] args) {
               EventQueue.invokeLater(new Runnable() {
                       public void run() {
                               try {
                                       CustomerRegister window = new CustomerRegister();
                                       window.frame.setVisible(true);
                                } catch (Exception e) {
                                       e.printStackTrace();
               });
        }
        * Create the application.
       public CustomerRegister() {
               EventQueue.invokeLater(new Runnable() {
                       public void run() {
```

```
try {
                               frame.setVisible(true);
                       } catch (Exception e) {
                               e.printStackTrace();
               }
       });
       initialize();
}
* Initialize the contents of the frame.
private void initialize() {
       frame = new JFrame();
       frame.setBounds(100, 100, 877, 504);
       frame.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);
       frame.getContentPane().setLayout(null);
       JLabel lblNewLabel = new JLabel("Customer Registration");
       lblNewLabel.setForeground(Color.BLACK);
       lblNewLabel.setBackground(Color.BLACK);
       lblNewLabel.setFont(new Font("Verdana", Font.BOLD, 22));
       lblNewLabel.setBounds(291, 11, 292, 48);
       frame.getContentPane().add(lblNewLabel);
       JLabel lblNewLabel_1 = new JLabel("Name :");
       lblNewLabel_1.setFont(new Font("Tahoma", Font.BOLD, 18));
       lblNewLabel_1.setBounds(102, 104, 66, 34);
       frame.getContentPane().add(lblNewLabel_1);
       textField = new JTextField();
       textField.setFont(new Font("Tahoma", Font.PLAIN, 18));
       textField.setBounds(193, 107, 227, 28);
       frame.getContentPane().add(textField);
       textField.setColumns(10);
       textField 1 = new JTextField();
       textField 1.setFont(new Font("Tahoma", Font.PLAIN, 18));
       textField 1.setColumns(10);
       textField_1.setBounds(193, 164, 227, 28);
       frame.getContentPane().add(textField_1);
       textField_2 = new JTextField();
       textField_2.setFont(new Font("Tahoma", Font.PLAIN, 18));
       textField_2.setColumns(10);
       textField_2.setBounds(193, 228, 227, 28);
       frame.getContentPane().add(textField 2);
       textField_3 = new JTextField();
       textField_3.setFont(new Font("Tahoma", Font.PLAIN, 18));
       textField_3.setColumns(10);
       textField_3.setBounds(193, 288, 227, 28);
       frame.getContentPane().add(textField_3);
```

```
JLabel lblNewLabel_1_1 = new JLabel("Email:");
lblNewLabel 1 1.setFont(new Font("Tahoma", Font.BOLD, 18));
lblNewLabel 1 1.setBounds(102, 161, 66, 34);
frame.getContentPane().add(lblNewLabel 1 1);
JLabel lblNewLabel_1_2 = new JLabel("Phone :");
lblNewLabel 1 2.setFont(new Font("Tahoma", Font.BOLD, 18));
lblNewLabel_1_2.setBounds(91, 225, 77, 34);
frame.getContentPane().add(lblNewLabel_1_2);
JLabel lblNewLabel_1_3 = new JLabel("Password :");
lblNewLabel_1_3.setFont(new Font("Tahoma", Font.BOLD, 18));
lblNewLabel 1 3.setBounds(68, 285, 100, 34);
frame.getContentPane().add(lblNewLabel_1_3);
JLabel lblNewLabel 1 4 = new JLabel("Age:");
lblNewLabel 1 4.setFont(new Font("Tahoma", Font.BOLD, 18));
lblNewLabel 1 4.setBounds(494, 104, 66, 34);
frame.getContentPane().add(lblNewLabel 1 4);
JLabel lblNewLabel_1_5 = new JLabel("Address:");
lblNewLabel_1_5.setFont(new Font("Tahoma", Font.BOLD, 18));
lblNewLabel 1 5.setBounds(469, 164, 91, 34);
frame.getContentPane().add(lblNewLabel_1_5);
JLabel lblNewLabel 1 6 = new JLabel("PinCode:");
lblNewLabel 1 6.setFont(new Font("Tahoma", Font.BOLD, 18));
lblNewLabel_1_6.setBounds(469, 285, 91, 34);
frame.getContentPane().add(lblNewLabel_1_6);
textField 4 = new JTextField();
textField_4.setFont(new Font("Tahoma", Font.PLAIN, 18));
textField 4.setColumns(10);
textField 4.setBounds(570, 104, 227, 28);
frame.getContentPane().add(textField 4);
textField_6 = new JTextField();
textField_6.setFont(new Font("Tahoma", Font.PLAIN, 18));
textField 6.setColumns(10);
textField 6.setBounds(570, 288, 227, 28);
frame.getContentPane().add(textField 6);
JTextArea textArea = new JTextArea();
textArea.setBounds(570, 164, 227, 99);
frame.getContentPane().add(textArea);
JButton btnNewButton = new JButton("Register");
btnNewButton.setFont(new Font("Tahoma", Font.BOLD, 18));
btnNewButton.setBounds(570, 393, 123, 41);
frame.getContentPane().add(btnNewButton);
JButton btnNewButton_1 = new JButton("Back");
btnNewButton_1.setFont(new Font("Tahoma", Font.BOLD, 18));
btnNewButton 1.setBounds(193, 393, 123, 41);
frame.getContentPane().add(btnNewButton_1);
```

```
JPanel panel = new JPanel();
                panel.setBackground(SystemColor.desktop);
                panel.setBounds(0, 0, 863, 69);
               frame.getContentPane().add(panel);
               //Register Button
               btnNewButton.addActionListener(new ActionListener() {
                       public void actionPerformed(ActionEvent arg0) {
                               try
                                       String username = textField.getText();
                                       String password = textField_3.getText();
                                       String phone = textField_2.getText();
                                       String address = textArea.getText();
                                       String pincode = textField_6.getText();
                                       conn cobj = new conn();
                                       String query = "select * from customer;";
                                       ResultSet rs = cobj.st.executeQuery(query);
                                       boolean flag = false;
                                       while(rs.next())
                                               if(rs.getString("username").equals(username))
                                                       JOptionPane.showMessageDialog(frame, "Username already
exists !","Register",JOptionPane.ERROR_MESSAGE);
                                                       flag = true;
                                                       break;
                                               }
                                       if(!flag)//user name does not exist
                                               String query1 = "select count(*) as count from customer;";
                                               rs = cobj.st.executeQuery(query1);
                                               rs.next();
                                               int cnum = rs.getInt("count") + 1;
                                               String cust_id = "c" + Integer.toString(cnum);
                                               String query2 = "insert into customer values("+cust_id+",
""+username+"", ""+password+"", ""+phone+"", ""+address+"", ""+pincode+"");";
                                               cobj.st.executeUpdate(query2);
                                               Wallet.createWallet(cust_id);
                                               JOptionPane.showMessageDialog(frame, "Registration
successful", "Register", JOptionPane. INFORMATION_MESSAGE);
```

```
btnNewButton_1.doClick();

}

catch(Exception e)
{
    e.printStackTrace();
}

});

//Back button
btnNewButton_1.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent arg0) {

    frame.setVisible(false);
    Login.loginobj.frmShoppie.setVisible(true);
}

});
```

```
CustomerTab.java
import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JLabel;
import java.awt.Font;
import javax.swing.JList;
import java.awt.Color;
import javax.swing.JTabbedPane;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import java.awt.SystemColor;
import javax.swing.ImageIcon;
import javax.swing.JPanel;
import javax.swing.SwingConstants;
public class CustomerTab {
        public static JFrame frame;
        /**
        * Launch the application.
        public static void main(String[] args) {
               EventQueue.invokeLater(new Runnable() {
                       public void run() {
                               try {
                                       CustomerTab window = new CustomerTab();
                                       window.frame.setVisible(true);
                               } catch (Exception e) {
                                       e.printStackTrace();
                        }
               });
        }
        * Create the application.
        public CustomerTab() {
               EventQueue.invokeLater(new Runnable() {
                       public void run() {
                               try {
                                       frame.setVisible(true);
                               } catch (Exception e) {
                                       e.printStackTrace();
                        }
               });
               initialize();
```

```
* Initialize the contents of the frame.
private void initialize() {
       frame = new JFrame();
       frame.getContentPane().setBackground(Color.GRAY);
       frame.setBounds(100, 100, 941, 576);
       frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       frame.getContentPane().setLayout(null);
       String uname = Login.username ip.toUpperCase();
       JLabel lblNewLabel = new JLabel("Hello " + uname + " !");
       lblNewLabel.setHorizontalAlignment(SwingConstants.CENTER);
       lblNewLabel.setBackground(Color.BLACK);
       lblNewLabel.setForeground(Color.BLACK);
       lblNewLabel.setFont(new Font("Tahoma", Font.BOLD, 28));
       lblNewLabel.setBounds(157, 11, 598, 54);
       frame.getContentPane().add(lblNewLabel);
       JButton btnNewButton = new JButton("Shop");
       btnNewButton.setBorderPainted(false);
       btnNewButton.setFont(new Font("Tahoma", Font.BOLD, 18));
       btnNewButton.setForeground(Color.WHITE);
       btnNewButton.setBackground(Color.BLACK);
       btnNewButton.setBounds(354, 111, 171, 54);
       frame.getContentPane().add(btnNewButton);
       JButton btnMyCart = new JButton("My Cart");
       btnMyCart.setBorderPainted(false);
       btnMyCart.setForeground(Color.WHITE);
       btnMyCart.setFont(new Font("Tahoma", Font.BOLD, 18));
       btnMyCart.setBackground(Color.BLACK);
       btnMyCart.setBounds(554, 226, 171, 54);
       frame.getContentPane().add(btnMyCart);
       JButton btnMyOrders = new JButton("My Orders");
       btnMyOrders.setBorderPainted(false);
       btnMyOrders.setForeground(Color.WHITE);
       btnMyOrders.setFont(new Font("Tahoma", Font.BOLD, 18));
       btnMyOrders.setBackground(Color.BLACK);
       btnMyOrders.setBounds(157, 226, 171, 54);
       frame.getContentPane().add(btnMyOrders);
       JButton btnMyWallet = new JButton("My Wallet");
       btnMyWallet.setBorderPainted(false);
       btnMyWallet.setForeground(Color.WHITE);
       btnMyWallet.setFont(new Font("Tahoma", Font.BOLD, 18));
       btnMyWallet.setBackground(Color.BLACK);
       btnMyWallet.setBounds(157, 330, 171, 54);
       frame.getContentPane().add(btnMyWallet);
       JButton btnBack = new JButton("Logout");
       btnBack.setBorderPainted(false);
       btnBack.setForeground(Color.WHITE);
       btnBack.setFont(new Font("Tahoma", Font.BOLD, 18));
       btnBack.setBackground(Color.BLACK);
```

```
btnBack.setBounds(376, 471, 162, 41);
frame.getContentPane().add(btnBack);
JButton btnMyInfo = new JButton("My Info");
btnMyInfo.setBorderPainted(false);
btnMyInfo.setForeground(Color.WHITE);
btnMyInfo.setFont(new Font("Tahoma", Font.BOLD, 18));
btnMyInfo.setBackground(Color.BLACK);
btnMyInfo.setBounds(554, 330, 171, 54);
frame.getContentPane().add(btnMyInfo);
JPanel panel = new JPanel();
panel.setBackground(new Color(255, 99, 71));
panel.setBounds(0, 0, 927, 77);
frame.getContentPane().add(panel);
JLabel lblNewLabel 1 = new JLabel("New label");
lblNewLabel_1.setIcon(new ImageIcon(CustomerTab.class.getResource("/icons/ecom1.jpg")));
lblNewLabel 1.setBounds(0, 76, 927, 463);
frame.getContentPane().add(lblNewLabel_1);
//logout button
btnBack.addActionListener(new ActionListener() {
       public void actionPerformed(ActionEvent arg0) {
               frame.dispose();
               Login.loginobj.frmShoppie.setVisible(true);
});
//shop button
btnNewButton.addActionListener(new ActionListener() {
       public void actionPerformed(ActionEvent arg0) {
               frame.dispose();
               new Shop();
});
//Wallet button
btnMvWallet.addActionListener(new ActionListener() {
       public void actionPerformed(ActionEvent arg0) {
               frame.dispose();
               new Wallet();
});
//My orders button
btnMyOrders.addActionListener(new ActionListener() {
```

```
public void actionPerformed(ActionEvent arg0) {
                       frame.dispose();
                       new MyOrders();
               }
       });
       //my cart button
       btnMyCart.addActionListener(new ActionListener() {
               public void actionPerformed(ActionEvent arg0) {
                       frame.dispose();
                       new MyCart();
               }
       });
       //my info
       btnMyInfo.addActionListener(new ActionListener() {
               public void actionPerformed(ActionEvent arg0) {
                       frame.dispose();
                       new MyInfo();
               }
       });
}
```

```
Login.java
               (MainClass)
import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import java.awt.Font;
import java.awt.Color;
import javax.swing.JTextField;
import javax.swing.JPasswordField;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.sql.ResultSet;
import java.awt.event.ActionEvent;
import java.awt.SystemColor;
import javax.swing.JPanel;
import javax.swing.ImageIcon;
import java.awt.Toolkit;
import javax.swing.JToggleButton;
import javax.swing.SwingUtilities;
import javax.swing.UIManager;
import javax.swing.JSeparator;
import javax.swing.JRadioButton;
import javax.swing.ButtonGroup;
import javax.swing.AbstractAction;
import javax.swing.Action;
import javax.swing.SwingConstants;
public class Login {
       public JFrame frmShoppie;
       private JTextField txtField;
       private JPasswordField passwordField;
       private final ButtonGroup buttonGroup = new ButtonGroup();
       public String userType = "Customer";
       public static Login loginobj;
       public static String username ip;
       public static String pass_ip;
       public static String userId;
       /**
        * Launch the application.
       public static void main(String[] args) {
               EventQueue.invokeLater(new Runnable() {
                       public void run() {
                               try {
                                       Login window = new Login();
                                       window.frmShoppie.setVisible(true);
                                       try {
       UIManager.setLookAndFeel("javax.swing.plaf.nimbus.NimbusLookAndFeel");
                                              SwingUtilities.updateComponentTreeUI(window.frmShoppie);
```

```
catch (Exception ex) {
                                             JOptionPane.showMessageDialog(window.frmShoppie, "LookAndFeel
not set", "ERROR",
                                                             JOptionPane.ERROR_MESSAGE);
                               } catch (Exception e) {
                                      e.printStackTrace();
               });
       /**
        * Create the application.
       public Login() {
               loginobj = this;
               initialize();
       }
       /**
        * Initialize the contents of the frame.
       private void initialize() {
               frmShoppie = new JFrame();
               frmShoppie.setTitle("Shoppie");
               frmShoppie.getContentPane().setBackground(SystemColor.scrollbar);
               frmShoppie.setBounds(100, 100, 510, 552);
               frmShoppie.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
               frmShoppie.getContentPane().setLayout(null);
               JLabel lblNewLabel 3 = new JLabel("User Name:");
               lblNewLabel 3.setBackground(new Color(230, 230, 250));
               lblNewLabel_3.setFont(new Font("Tahoma", Font.BOLD, 20));
               lblNewLabel_3.setBounds(67, 239, 142, 32);
               frmShoppie.getContentPane().add(lblNewLabel_3);
               txtField = new JTextField();
               txtField.setFont(new Font("Tahoma", Font.PLAIN, 15));
               txtField.setBounds(219, 245, 157, 26);
               frmShoppie.getContentPane().add(txtField);
               txtField.setColumns(10);
               JLabel lblNewLabel_4 = new JLabel("Password :");
               lblNewLabel_4.setFont(new Font("Tahoma", Font.BOLD, 20));
               lblNewLabel 4.setBounds(67, 297, 119, 32);
               frmShoppie.getContentPane().add(lblNewLabel 4);
               passwordField = new JPasswordField();
               passwordField.setFont(new Font("Tahoma", Font.PLAIN, 15));
               passwordField.setBounds(219, 302, 157, 28);
               frmShoppie.getContentPane().add(passwordField);
```

```
JButton btnNewButton = new JButton("Login");
btnNewButton.setFont(new Font("Tahoma", Font.BOLD, 22));
btnNewButton.setForeground(Color.BLACK);
btnNewButton.setBackground(Color.WHITE);
btnNewButton.setBounds(219, 369, 119, 45);
frmShoppie.getContentPane().add(btnNewButton);
JLabel lblNewLabel_5 = new JLabel("New User ?");
lblNewLabel_5.setFont(new Font("Tahoma", Font.PLAIN, 18));
lblNewLabel 5.setBounds(106, 435, 103, 40);
frmShoppie.getContentPane().add(lblNewLabel 5);
JRadioButton rdbtnNewRadioButton = new JRadioButton("Customer");
buttonGroup.add(rdbtnNewRadioButton);
rdbtnNewRadioButton.setSelected(true);
rdbtnNewRadioButton.setFont(new Font("Tahoma", Font.PLAIN, 15));
rdbtnNewRadioButton.setBounds(219, 183, 111, 23);
frmShoppie.getContentPane().add(rdbtnNewRadioButton);
JRadioButton rdbtnNewRadioButton 1 = new JRadioButton("Retailer");
buttonGroup.add(rdbtnNewRadioButton_1);
rdbtnNewRadioButton_1.setFont(new Font("Tahoma", Font.PLAIN, 15));
rdbtnNewRadioButton 1.setBounds(354, 183, 111, 23);
frmShoppie.getContentPane().add(rdbtnNewRadioButton_1);
JLabel lblNewLabel 6 = new JLabel("Iam a :");
lblNewLabel 6.setHorizontalAlignment(SwingConstants.CENTER);
lblNewLabel_6.setForeground(new Color(0, 0, 0));
lblNewLabel_6.setBackground(Color.BLACK);
lblNewLabel 6.setFont(new Font("Tahoma", Font.BOLD, 20));
lblNewLabel_6.setBounds(67, 176, 87, 32);
frmShoppie.getContentPane().add(lblNewLabel_6);
JButton btnNewButton 1 = new JButton("Register");
btnNewButton 1.setFont(new Font("Tahoma", Font.BOLD, 15));
btnNewButton 1.setBounds(219, 443, 111, 26);
frmShoppie.getContentPane().add(btnNewButton_1);
JLabel lblNewLabel_13 = new JLabel("");
lblNewLabel 13.setHorizontalAlignment(SwingConstants.CENTER);
lblNewLabel 13.setIcon(new ImageIcon(Login.class.getResource("/icons/shop6.gif")));
lblNewLabel 13.setBounds(0, 0, 496, 149);
frmShoppie.getContentPane().add(lblNewLabel_13);
rdbtnNewRadioButton.addActionListener(new ActionListener() {
       public void actionPerformed(ActionEvent arg0) {
              userType = "Customer";
});
rdbtnNewRadioButton 1.addActionListener(new ActionListener() {
```

```
public void actionPerformed(ActionEvent arg0) {
                               userType = "Retailer";
               });
               //Login Button
               btnNewButton.addActionListener(new ActionListener() {
                       public void actionPerformed(ActionEvent arg0) {
                               conn cobj = new conn();
                               String query;
                               if(userType.equals("Customer"))
                                      query = "SELECT * FROM customer;";
                               else
                                      query = "SELECT * FROM merchant;";
                               System.out.println(userType);
                               username_ip = txtField.getText();
                               pass_ip = passwordField.getText();
                               try
                                      ResultSet rs = cobj.st.executeQuery(query);
                                      Boolean access = false;
                                      while(rs.next())
                                              String uname = rs.getString("username");
                                              String pass = rs.getString("password");
                                              if(uname.equals(username_ip) && pass.equals(pass_ip))
                                                      access = true;
                                                      break;
                                      if(access)
                                              System.out.println("Access Granted!");
                                              JOptionPane.showMessageDialog(frmShoppie, "Login
Successful", "Login", JOptionPane.INFORMATION_MESSAGE);
                                              if(userType.equals("Customer"))
                                                      userId = rs.getString("Customer_Id");
                                                      frmShoppie.setVisible(false);
```

```
new CustomerTab();
                                               }
                                               else
                                                       userId = rs.getString("Merchant_Id");
                                                       frmShoppie.setVisible(false);
                                                       new RetailerTab();
                                               }
                                       }
                                       else
                                               System.out.println("Access Denied");
                                               JOptionPane.showMessageDialog(frmShoppie, "Username or Password
is incorrect !","Login",JOptionPane.ERROR_MESSAGE);
                                       txtField.setText("");
                                       passwordField.setText("");
                               catch(Exception e)
                                       System.out.println(e);
                });
               //Register button
                btnNewButton_1.addActionListener(new ActionListener() {
                       public void actionPerformed(ActionEvent arg0) {
                               if(userType.equals("Customer"))
                                       System.out.println("Customer Registration");
                                       frmShoppie.setVisible(false);
                                       new CustomerRegister();
                               }
                               else
                               {
                                       System.out.println("Retailer Registration");
                                       frmShoppie.setVisible(false);
                                       new RetailerRegister();
                               }
                });
```

Mycart.java

```
import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import java.awt.Font;
import java.awt.Color;
import javax.swing.JPanel;
import javax.swing.JScrollPane;
import javax.swing.UIManager;
import javax.swing.border.LineBorder;
import javax.swing.JTable;
import javax.swing.table.DefaultTableModel;
import javax.swing.table.JTableHeader;
import javax.swing.JButton;
import javax.swing.JComboBox;
import javax.swing.DefaultComboBoxModel;
import java.awt.event.ActionListener;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.LinkedList;
import java.util.List;
import java.awt.event.ActionEvent;
import javax.swing.JTextField;
import java.awt.SystemColor;
public class MyCart {
       private JFrame frame;
       private JTable table;
       private DefaultTableModel model;
       private JTextField textField;
        * Launch the application.
       public static void main(String[] args) {
               EventQueue.invokeLater(new Runnable() {
                       public void run() {
                               try {
                                       MyCart window = new MyCart();
                                       window.frame.setVisible(true);
                               } catch (Exception e) {
                                       e.printStackTrace();
               });
```

```
* Create the application.
public MyCart() {
       EventQueue.invokeLater(new Runnable() {
               public void run() {
                       try {
                               frame.setVisible(true);
                       } catch (Exception e) {
                               e.printStackTrace();
               }
        });
       initialize();
* Initialize the contents of the frame.
private void initialize() {
       frame = new JFrame();
       frame.getContentPane().setBackground(new Color(192, 192, 192));
       frame.setBounds(100, 100, 902, 566);
       frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       frame.getContentPane().setLayout(null);
       JPanel panel = new JPanel();
        panel.setBounds(0, 0, 888, 55);
       panel.setBackground(SystemColor.desktop);
       frame.getContentPane().add(panel);
       JLabel lblNewLabel = new JLabel("My Cart");
        panel.add(lblNewLabel);
       lblNewLabel.setFont(new Font("Tahoma", Font.BOLD, 28));
       //Table start
       table = new JTable();
       table.setRowHeight(20);
       table.setFont(new Font("Tahoma", Font.PLAIN, 15));
       model = new DefaultTableModel(
                       new Object[][] {
                       },
                       new String[] {
                               "SNo.", "Product Id", "Product Name", "Price", "Rating", "Quantity"
               );
        table.setModel(model):
        table.getColumnModel().getColumn(0).setPreferredWidth(4);
        table.getColumnModel().getColumn(1).setPreferredWidth(20);
        table.getColumnModel().getColumn(2).setPreferredWidth(200);
        table.getColumnModel().getColumn(3).setPreferredWidth(50);
```

```
table.getColumnModel().getColumn(4).setPreferredWidth(50);
table.getColumnModel().getColumn(5).setPreferredWidth(50);
//table.setBounds(28, 77, 832, 364);
//frame.getContentPane().add(table);
JScrollPane scrollPane = new JScrollPane(table);
scrollPane.setBounds(28, 77, 832, 364);
scrollPane.setBorder(new LineBorder(new Color(130, 135, 144), 3, true));
scrollPane.setFont(new Font("Tahoma", Font.BOLD, 15));
JTableHeader Theader = table.getTableHeader();
Theader.setBackground(Color.GRAY);
Theader.setForeground(Color.BLACK);
Theader.setFont(new Font("Tahoma", Font.BOLD, 15));
frame.getContentPane().add(scrollPane);
loadCartTable();
// Table end
JButton btnNewButton = new JButton("Back");
btnNewButton.setBounds(64, 474, 95, 31);
btnNewButton.setFont(new Font("Tahoma", Font.BOLD, 18));
frame.getContentPane().add(btnNewButton);
JButton btnBuy = new JButton("Buy");
btnBuy.setFont(new Font("Tahoma", Font.BOLD, 18));
btnBuy.setBounds(741, 474, 95, 31);
frame.getContentPane().add(btnBuy);
JLabel lblNewLabel_1 = new JLabel("Quantity :");
lblNewLabel_1.setFont(new Font("Tahoma", Font.BOLD, 18));
lblNewLabel_1.setBounds(373, 473, 95, 33);
frame.getContentPane().add(lblNewLabel_1);
textField = new JTextField();
textField.setFont(new Font("Tahoma", Font.PLAIN, 14));
textField.setBounds(478, 474, 76, 31);
frame.getContentPane().add(textField);
textField.setColumns(10);
//Back button
btnNewButton.addActionListener(new ActionListener() {
       public void actionPerformed(ActionEvent arg0) {
               frame.dispose();
               new CustomerTab();
});
//Buy button
btnBuy.addActionListener(new ActionListener() {
       public void actionPerformed(ActionEvent arg0) {
               int orderQuantity=0;
```

```
int prod_Price=0;
                              String prod_Id=null;
                              String prod Name=null;
                              String prod Pricestr=null;
                              int prod_Quantity=0;
                              try
                                      try
                                              prod Id = (String) model.getValueAt(table.getSelectedRow(), 1);
                                              prod_Name = (String) model.getValueAt(table.getSelectedRow(), 2);
                                              prod_Pricestr = (String) model.getValueAt(table.getSelectedRow(), 3);
                                              prod_Quantity = Integer.parseInt((String)
model.getValueAt(table.getSelectedRow(), 5));
                                              prod Price = Integer.parseInt(prod Pricestr);
                                      catch(Exception e)
                                              throw new MyException.ProductNotSelected("");
                                      try{orderQuantity = Integer.parseInt(textField.getText());}
                                      catch(Exception e) {throw new MyException.Invalid tf shop("");}
                                      if(orderQuantity==0) {throw new MyException.Invalid tf shop("");}
                                      int totalPrice = prod_Price*orderQuantity;
                                      int currBalance = Wallet.checkBalance(Login.userId);
                                      //successful purchase
                                      if((prod Quantity>=orderQuantity) && (currBalance >= totalPrice))
                                              Wallet.updateBalance(currBalance - totalPrice);
                                              Wallet.addToRetailerBalance(Shop.getRetailerId(prod Id), totalPrice);
                                              Shop.updateQuantity(prod_Id, prod_Quantity - orderQuantity);
                                              Shop.addToOrders(Login.userId, prod_Id, orderQuantity);
                                              removeFromCart(prod_Id);
                                              JOptionPane.showMessageDialog(frame, prod Name + "
("+orderQuantity+") Successfully purchased", "Purchase", JOptionPane. INFORMATION_MESSAGE);
                                      else if(currBalance < totalPrice)
                                              JOptionPane.showMessageDialog(frame, "Insufficient funds in wallet
\nWallet balance: "+currBalance, "Purchase", JOptionPane. INFORMATION_MESSAGE);
                                      else
                                              JOptionPane.showMessageDialog(frame, "Products unavailable
currently !", "Purchase" ,JOptionPane.INFORMATION_MESSAGE);
                              catch(MyException.Invalid tf shop e1)
```

```
JOptionPane.showMessageDialog(frame, "Enter valid Quantity
!","Purchase", JOptionPane. INFORMATION MESSAGE);
                               catch(MyException.ProductNotSelected e2)
                                       JOptionPane.showMessageDialog(frame, "First select a product to buy!",
"Purchase" ,JOptionPane.INFORMATION_MESSAGE);
               });
       private void loadCartTable()
               conn cobj = new conn();
               String query1 = "SELECT products FROM cart where Customer_Id="" + Login.userId + "';";
               String prodstr;
               String[] products;
               try
               {
                       ResultSet rs = cobj.st.executeQuery(query1);
                       rs.next();
                       prodstr = rs.getString("products");
                       products = prodstr.split(",");
                       int index = 1;
                       for(String prodId : products)
                               String query2 = "select name, price, rating, quantity from products where Product_Id="" +
prodId +"';";
                               rs = cobj.st.executeQuery(query2);
                               rs.next();
                               String prodName = rs.getString("Name");
                               String prodPrice = rs.getString("Price");
                               String prodRating = rs.getString("Rating");
                               String prodQuantity = rs.getString("Quantity");
                               Object[] newRow = {index, prodId, prodName, prodPrice, prodRating, prodQuantity};
                               model.addRow(newRow);
                               index++;
               catch (SQLException e)
                       //empty cart
                       e.printStackTrace();
```

```
}
        private void removeFromCart(String prodId)
               conn cobj = new conn();
               String query1 = "SELECT products FROM cart where Customer_Id="" + Login.userId + "";";
               try
                       ResultSet rs = cobj.st.executeQuery(query1);
                       rs.next();
                       String prodStr = rs.getString("products");
                       List<String> products = new LinkedList(Arrays.asList(prodStr.split(",")));
                       products.remove(prodId);
                       String newProdStr = String.join(",", products);
                       String query2 = "update cart set products="" + newProdStr +"" where Customer_Id="" +
Login.userId + "';";
                       cobj.st.executeUpdate(query2);
               catch(SQLException e)
                       e.printStackTrace();
               model.removeRow(table.getSelectedRow());
```

MyInfo.java import java.av

```
import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import java.awt.Font;
import java.sql.ResultSet;
import java.sql.SQLException;
import javax.swing.JTextField;
import javax.swing.SwingUtilities;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import javax.swing.JTextPane;
import javax.swing.JSeparator;
import javax.swing.SwingConstants;
import javax.swing.JPanel;
import java.awt.SystemColor;
public class MyInfo {
       private JFrame frame;
       private JTextField textField;
       private JTextField textField_1;
       private JTextField textField_2;
       private JTextField textField_3;
       private JTextPane textPane;
        * Launch the application.
       public static void main(String[] args) {
               EventQueue.invokeLater(new Runnable() {
                       public void run() {
                               try {
                                       MyInfo window = new MyInfo();
                                       window.frame.setVisible(true);
                               } catch (Exception e) {
                                       e.printStackTrace();
                });
        }
        * Create the application.
       public MyInfo()
               EventQueue.invokeLater(new Runnable() {
                       public void run() {
```

```
try {
                              frame.setVisible(true);
                      } catch (Exception e) {
                              e.printStackTrace();
                      }
               }
       });
       initialize();
}
* Initialize the contents of the frame.
*/
private void initialize() {
       frame = new JFrame();
       frame.setBounds(100, 100, 951, 469);
       frame.setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
       frame.getContentPane().setLayout(null);
       JLabel lblNewLabel = new JLabel("My Info");
       lblNewLabel.setFont(new Font("Tahoma", Font.BOLD, 25));
       lblNewLabel.setBounds(390, 11, 114, 45);
       frame.getContentPane().add(lblNewLabel);
       String userName = Login.username_ip;
       JLabel lblNewLabel_1 = new JLabel("Name : ");
       lblNewLabel 1.setFont(new Font("Tahoma", Font.BOLD, 18));
       lblNewLabel_1.setBounds(29, 101, 81, 36);
       frame.getContentPane().add(lblNewLabel_1);
       JLabel lblNewLabel_1_1 = new JLabel("Password : ");
       lblNewLabel 1 1.setFont(new Font("Tahoma", Font.BOLD, 18));
       lblNewLabel 1 1.setBounds(521, 101, 105, 36);
       frame.getContentPane().add(lblNewLabel_1_1);
       JLabel lblNewLabel_1_2 = new JLabel("Phone : ");
       lblNewLabel 1 2.setFont(new Font("Tahoma", Font.BOLD, 18));
       lblNewLabel 1 2.setBounds(29, 180, 81, 36);
       frame.getContentPane().add(lblNewLabel_1_2);
       JButton btnNewButton_1 = new JButton("Back");
       btnNewButton_1.setFont(new Font("Tahoma", Font.BOLD, 18));
       btnNewButton 1.setBounds(61, 354, 94, 36);
       frame.getContentPane().add(btnNewButton_1);
       JLabel lblNewLabel 1 2 1 = new JLabel("Address:");
       lblNewLabel 1 2 1.setFont(new Font("Tahoma", Font.BOLD, 18));
       lblNewLabel_1_2_1.setBounds(521, 195, 99, 36);
       frame.getContentPane().add(lblNewLabel_1_2_1);
       JLabel lblNewLabel_1_2_2 = new JLabel("Pincode : ");
       lblNewLabel 1 2 2.setFont(new Font("Tahoma", Font.BOLD, 18));
       lblNewLabel 1 2 2.setBounds(29, 246, 94, 36);
```

```
frame.getContentPane().add(lblNewLabel_1_2_2);
textPane = new JTextPane();
textPane.setFont(new Font("Tahoma", Font.PLAIN, 15));
textPane.setEditable(false);
textPane.setBounds(630, 195, 272, 150);
frame.getContentPane().add(textPane);
textField = new JTextField();
textField.setFont(new Font("Tahoma", Font.PLAIN, 15));
textField.setEditable(false):
textField.setBounds(120, 104, 232, 36);
frame.getContentPane().add(textField);
textField.setColumns(10);
textField 1 = new JTextField();
textField 1.setFont(new Font("Tahoma", Font.PLAIN, 15));
textField_1.setEditable(false);
textField 1.setColumns(10);
textField 1.setBounds(630, 104, 232, 36);
frame.getContentPane().add(textField_1);
textField 2 = new JTextField();
textField_2.setFont(new Font("Tahoma", Font.PLAIN, 15));
textField 2.setEditable(false);
textField 2.setColumns(10):
textField 2.setBounds(120, 183, 232, 36);
frame.getContentPane().add(textField_2);
textField_3 = new JTextField();
textField_3.setFont(new Font("Tahoma", Font.PLAIN, 15));
textField_3.setEditable(false);
textField 3.setColumns(10);
textField 3.setBounds(120, 249, 232, 36);
frame.getContentPane().add(textField 3);
JSeparator separator = new JSeparator();
separator.setOrientation(SwingConstants.VERTICAL);
separator.setBounds(444, 84, 27, 306);
frame.getContentPane().add(separator);
JPanel panel = new JPanel();
panel.setBackground(SystemColor.desktop);
panel.setBounds(0, 0, 937, 68);
frame.getContentPane().add(panel);
loadData();
//back button
btnNewButton_1.addActionListener(new ActionListener() {
       public void actionPerformed(ActionEvent arg0) {
               frame.dispose();
               if(Login.userId.charAt(0)=='c')
```

```
new CustomerTab();
                        }
                        else
                                new RetailerTab();
                }
        });
}
private void loadData()
        conn cobj = new conn();
        String query;
       if(Login.userId.charAt(0)=='c')
               query = "select * from customer where Customer_Id="" + Login.userId + "";";
        else
               query = "select * from merchant where Merchant_Id="" + Login.userId + "";";
        try
               ResultSet rs = cobj.st.executeQuery(query);
               rs.next();
               String name = rs.getString("username");
               String password = rs.getString("password");
               String phone = rs.getString("phone");
               String address = rs.getString("address");
               String pincode = rs.getString("pincode");
               textField.setText(name);
               textField_1.setText(password);
               textField_2.setText(phone);
               textField_3.setText(pincode);
               textPane.setText(address);
        catch(SQLException se)
                se.printStackTrace();
```

```
MyOrders.java
import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import java.awt.Font;
import java.awt.Color;
import javax.swing.JPanel;
import javax.swing.JScrollPane;
import javax.swing.UIManager;
import javax.swing.border.LineBorder;
import javax.swing.JTable;
import javax.swing.table.DefaultTableModel;
import javax.swing.table.JTableHeader;
import javax.swing.JButton;
import javax.swing.JComboBox;
import javax.swing.DefaultComboBoxModel;
import java.awt.event.ActionListener;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.awt.event.ActionEvent;
import java.awt.SystemColor;
public class MyOrders {
       private JFrame frame;
       private JTable table;
       private DefaultTableModel model;
       /**
        * Launch the application.
       public static void main(String[] args) {
               EventQueue.invokeLater(new Runnable() {
                       public void run() {
                               try {
                                       MyOrders window = new MyOrders();
                                       window.frame.setVisible(true);
                               } catch (Exception e) {
                                       e.printStackTrace();
               });
        }
        * Create the application.
       public MyOrders() {
               EventQueue.invokeLater(new Runnable() {
                       public void run() {
                               try {
```

```
frame.setVisible(true);
                       } catch (Exception e) {
                               e.printStackTrace();
               }
       });
       initialize();
}
/**
* Initialize the contents of the frame.
private void initialize() {
       frame = new JFrame();
       frame.getContentPane().setBackground(SystemColor.scrollbar);
       frame.setBounds(100, 100, 902, 566);
       frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       frame.getContentPane().setLayout(null);
       JPanel panel = new JPanel();
       panel.setBackground(SystemColor.desktop);
       panel.setBounds(0, 0, 888, 55);
       frame.getContentPane().add(panel);
       JLabel lblNewLabel = new JLabel("My Orders");
       panel.add(lblNewLabel);
       lblNewLabel.setFont(new Font("Tahoma", Font.BOLD, 28));
       //Table start
       table = new JTable();
       table.setRowHeight(20);
       table.setFont(new Font("Tahoma", Font.PLAIN, 15));
       model = new DefaultTableModel(
                       new Object[][] {
                       },
                       new String[] {
                               "SNo.", "Order Number", "Product Id", "Product Name", "Price", "Quantity"
               );
       table.setModel(model);
       table.getColumnModel().getColumn(0).setPreferredWidth(2);
       table.getColumnModel().getColumn(1).setPreferredWidth(80);
       table.getColumnModel().getColumn(2).setPreferredWidth(20);
       table.getColumnModel().getColumn(3).setPreferredWidth(237);
       table.getColumnModel().getColumn(4).setPreferredWidth(70);
       table.getColumnModel().getColumn(5).setPreferredWidth(109);
       //table.setBounds(28, 77, 832, 364);
       //frame.getContentPane().add(table);
       JScrollPane scrollPane = new JScrollPane(table);
       scrollPane.setBorder(new LineBorder(new Color(130, 135, 144), 3, true));
```

```
scrollPane.setFont(new Font("Tahoma", Font.BOLD, 15));
scrollPane.setBounds(28, 77, 832, 364);
JTableHeader Theader = table.getTableHeader();
Theader.setBackground(Color.GRAY);
Theader.setForeground(Color.BLACK);
Theader.setFont(new Font("Tahoma", Font.BOLD, 15));
frame.getContentPane().add(scrollPane);
loadOrderTable();
// Table end
JButton btnNewButton = new JButton("Back");
btnNewButton.setFont(new Font("Tahoma", Font.BOLD, 18));
btnNewButton.setBounds(64, 474, 95, 31);
frame.getContentPane().add(btnNewButton);
JComboBox comboBox = new JComboBox();
comboBox.setModel(new DefaultComboBoxModel(new String[] {"1", "2", "3", "4", "5"}));
comboBox.setFont(new Font("Tahoma", Font.BOLD, 20));
comboBox.setBounds(587, 470, 50, 37);
frame.getContentPane().add(comboBox);
JLabel lblNewLabel_1 = new JLabel("Rating :");
lblNewLabel 1.setFont(new Font("Tahoma", Font.BOLD, 20));
lblNewLabel 1.setBounds(495, 474, 95, 28);
frame.getContentPane().add(lblNewLabel 1);
JButton btnSubmit = new JButton("Submit");
btnSubmit.setFont(new Font("Tahoma", Font.BOLD, 18));
btnSubmit.setBounds(680, 474, 116, 31);
frame.getContentPane().add(btnSubmit);
//Back button
btnNewButton.addActionListener(new ActionListener() {
       public void actionPerformed(ActionEvent arg0) {
               frame.dispose();
               CustomerTab.frame.setVisible(true);
});
//submit button
btnSubmit.addActionListener(new ActionListener() {
       public void actionPerformed(ActionEvent arg0) {
               int orderId:
               String prodId = "";
               int ratingIp = 2;
               try
                       try
```

```
orderId = Integer.parseInt((String)
model.getValueAt(table.getSelectedRow(), 1));
                                              prodId = (String) model.getValueAt(table.getSelectedRow(), 2);
                                              ratingIp = Integer.parseInt(comboBox.getSelectedItem().toString());
                                      catch(Exception e)
                                              e.printStackTrace();
                                              throw new MyException.ProductNotSelected("");
                                      try
                                              updateProductRating(prodId, ratingIp);
                                              updateRetailerRating(Shop.getRetailerId(prodId), ratingIp);
                                              model.removeRow(table.getSelectedRow());
                                              deleteOrder(orderId);
                                              JOptionPane.showMessageDialog(frame, "Thanks you for your feedback
!", "Rating" ,JOptionPane.INFORMATION_MESSAGE);
                                      catch (SQLException e)
                                              e.printStackTrace();
                               catch(MyException.ProductNotSelected e2)
                                      JOptionPane.showMessageDialog(frame, "First select a product !", "Rating"
,JOptionPane.INFORMATION_MESSAGE);
               });
       private void loadOrderTable()
               conn cobj = new conn();
               String query = "SELECT * FROM orders where Customer_Id="" + Login.userId + "' order by Order_Id
desc;";
               try
                       ResultSet rs = cobj.st.executeQuery(query);
                       int index = 1;
                       while(rs.next())
                               String orderId = rs.getString("Order_Id");
                               String prodId = rs.getString("Product_Id");
                               String prodQuantity = rs.getString("Quantity");
```

```
String prodName = getProdName(prodId);
                       String prodPrice = getProdPrice(prodId);
                       Object[] newRow = {index, orderId, prodId, prodName, prodPrice, prodQuantity};
                       model.addRow(newRow);
                       index++;
       catch (SQLException e)
               e.printStackTrace();
private String getProdPrice(String prodId) throws SQLException {
       conn cobj = new conn();
       String query = "SELECT price from products where Product_Id=" + prodId + "';";
       ResultSet rs = cobj.st.executeQuery(query);
       rs.next();
       return rs.getString("price");
private String getProdName(String prodId) throws SQLException
       conn cobj = new conn();
       String query = "SELECT name from products where Product_Id="" + prodId + "';";
       ResultSet rs = cobj.st.executeQuery(query);
       rs.next();
       return rs.getString("name");
public void updateProductRating(String prodId, int ratingIp) throws SQLException
       conn cobj = new conn();
       String query1 = "SELECT rating, reviews FROM products where Product_Id="" + prodId + "";";
       ResultSet rs = cobj.st.executeQuery(query1);
       rs.next();
       double rating = rs.getDouble("rating");
       int reviews = rs.getInt("reviews");
```

```
double newRating;
               if(reviews==0) {newRating = ratingIp;}
               else {newRating = ((reviews*rating)+ratingIp)/(reviews+1);}
               int newReviews = reviews + 1;
               String query2 = "update products set rating=" + newRating + ", reviews=" + newReviews + " where
product_Id="" + prodId + "";";
               cobj.st.executeUpdate(query2);
        }
        public void updateRetailerRating(String merchantId, int ratingIp) throws SQLException
               conn cobj = new conn();
               String query1 = "SELECT rating, reviews FROM merchant where Merchant_Id="" + merchantId + "";";
               ResultSet rs = cobj.st.executeQuery(query1);
               rs.next();
               double rating = rs.getDouble("rating");
               int reviews = rs.getInt("reviews");
               double newRating;
               if(reviews==0) {newRating = ratingIp;}
               else {newRating = ((reviews*rating)+ratingIp)/(reviews+1);}
               int newReviews = reviews + 1;
               String query2 = "update merchant set rating=" + newRating + ", reviews=" + newReviews + " where
merchant_Id="" + merchantId + "";";
               cobj.st.executeUpdate(query2);
        }
        public void deleteOrder(int orderId) throws SQLException
               conn cobj = new conn();
               String query = "DELETE FROM orders WHERE (`Order_Id` = "" + orderId + "");";
               cobj.st.executeUpdate(query);
        }
```

MyProducts.java

```
import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import java.awt.Font;
import java.awt.Color;
import javax.swing.JPanel;
import javax.swing.JScrollPane;
import javax.swing.UIManager;
import javax.swing.border.LineBorder;
import javax.swing.JTable;
import javax.swing.table.DefaultTableModel;
import javax.swing.table.JTableHeader;
import javax.swing.JButton;
import javax.swing.JComboBox;
import javax.swing.DefaultComboBoxModel;
import java.awt.event.ActionListener;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.awt.event.ActionEvent;
import java.awt.SystemColor;
public class MyProducts {
       private JFrame frame;
       private JTable table;
       private DefaultTableModel model;
        * Launch the application.
       public static void main(String[] args) {
               EventQueue.invokeLater(new Runnable() {
                       public void run() {
                               try {
                                       MyProducts window = new MyProducts();
                                       window.frame.setVisible(true);
                               } catch (Exception e) {
                                       e.printStackTrace();
               });
        }
        * Create the application.
       public MyProducts() {
               EventQueue.invokeLater(new Runnable() {
                       public void run() {
```

```
try {
                               frame.setVisible(true);
                       } catch (Exception e) {
                               e.printStackTrace();
               }
        });
       initialize();
}
* Initialize the contents of the frame.
private void initialize() {
       frame = new JFrame();
       frame.getContentPane().setBackground(new Color(192, 192, 192));
       frame.setBounds(100, 100, 902, 566);
       frame.setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
       frame.getContentPane().setLayout(null);
       JPanel panel = new JPanel();
        panel.setBackground(SystemColor.desktop);
        panel.setBounds(0, 0, 888, 55);
       frame.getContentPane().add(panel);
       JLabel lblNewLabel = new JLabel("My Products");
        panel.add(lblNewLabel);
       lblNewLabel.setFont(new Font("Tahoma", Font.BOLD, 28));
       //Table start
       table = new JTable();
       table.setRowHeight(20);
        table.setFont(new Font("Tahoma", Font.PLAIN, 15));
        model = new DefaultTableModel(
                       new Object[][] {
                       },
                       new String[] {
                               "SNo.", "Product Id", "Product Name", "Price", "Rating", "Quantity"
               );
        table.setModel(model);
        table.getColumnModel().getColumn(0).setPreferredWidth(4);
       table.getColumnModel().getColumn(1).setPreferredWidth(20);
       table.getColumnModel().getColumn(2).setPreferredWidth(200);
        table.getColumnModel().getColumn(3).setPreferredWidth(50);
        table.getColumnModel().getColumn(4).setPreferredWidth(50);
        table.getColumnModel().getColumn(5).setPreferredWidth(50);
       //table.setBounds(28, 77, 832, 364);
       //frame.getContentPane().add(table);
       JScrollPane scrollPane = new JScrollPane(table);
```

```
scrollPane.setBorder(new LineBorder(new Color(130, 135, 144), 3, true));
       scrollPane.setFont(new Font("Tahoma", Font.BOLD, 15));
       scrollPane.setBounds(28, 82, 832, 364);
       JTableHeader Theader = table.getTableHeader();
       Theader.setBackground(Color.GRAY);
       Theader.setForeground(Color.BLACK);
       Theader.setFont(new Font("Tahoma", Font.BOLD, 15));
       frame.getContentPane().add(scrollPane);
       loadProductsTable();
       // Table end
       JButton btnNewButton = new JButton("Back");
       btnNewButton.setFont(new Font("Tahoma", Font.BOLD, 18));
       btnNewButton.setBounds(51, 468, 95, 31);
       frame.getContentPane().add(btnNewButton);
       //Back button
       btnNewButton.addActionListener(new ActionListener() {
               public void actionPerformed(ActionEvent arg0) {
                       frame.dispose();
                       new RetailerTab();
       });
}
private void loadProductsTable()
       conn cobj = new conn();
       String query = "SELECT * FROM products where Merchant_Id="" + Login.userId + "";";
       try
       {
               ResultSet rs = cobj.st.executeQuery(query);
               int index = 1;
               while(rs.next())
                       String prodId = rs.getString("Product_Id");
                       String prodName = rs.getString("Name");
                       String prodPrice = rs.getString("Price");
                       String prodRating = rs.getString("Rating");
                       String prodQuantity = rs.getString("Quantity");
                       Object[] newRow = {index, prodId, prodName, prodPrice, prodRating, prodQuantity};
                       model.addRow(newRow);
                       index++;
       catch (SQLException e)
```

```
e.printStackTrace();
```

```
RetailerRegister.java
import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import java.awt.Font;
import java.awt.Color;
import javax.swing.JTextField;
import javax.swing.JTextArea;
import javax.swing.JButton;
import javax.swing.JTextPane;
import javax.swing.JComboBox;
import java.awt.event.ActionListener;
import java.sql.ResultSet;
import java.awt.event.ActionEvent;
import javax.swing.JPanel;
import java.awt.SystemColor;
public class RetailerRegister {
        private JFrame frame;
        private JTextField textField;
        private JTextField textField_1;
        private JTextField textField_2;
        private JTextField textField_3;
        private JTextField textField 4;
        private JTextField textField_6;
        /**
        * Launch the application.
        public static void main(String[] args) {
                EventQueue.invokeLater(new Runnable() {
                        public void run() {
                                try {
                                        RetailerRegister window = new RetailerRegister();
                                        window.frame.setVisible(true);
                                } catch (Exception e) {
                                       e.printStackTrace();
                });
        * Create the application.
        public RetailerRegister() {
                EventQueue.invokeLater(new Runnable() {
                       public void run() {
                                try {
```

```
frame.setVisible(true);
                       } catch (Exception e) {
                               e.printStackTrace();
               }
       });
       initialize();
}
* Initialize the contents of the frame.
private void initialize() {
       frame = new JFrame();
       frame.setBounds(100, 100, 877, 504);
       frame.setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
       frame.getContentPane().setLayout(null);
       JLabel lblNewLabel = new JLabel("Retailer Registration");
       lblNewLabel.setForeground(Color.BLACK);
       lblNewLabel.setBackground(Color.BLACK);
       lblNewLabel.setFont(new Font("Verdana", Font.BOLD, 22));
       lblNewLabel.setBounds(316, 11, 292, 48);
       frame.getContentPane().add(lblNewLabel);
       JLabel lblNewLabel 1 = new JLabel("Name:");
       lblNewLabel_1.setFont(new Font("Tahoma", Font.BOLD, 18));
       lblNewLabel_1.setBounds(102, 104, 66, 34);
       frame.getContentPane().add(lblNewLabel_1);
       textField = new JTextField();
       textField.setFont(new Font("Tahoma", Font.PLAIN, 18));
       textField.setBounds(193, 107, 227, 28);
       frame.getContentPane().add(textField);
       textField.setColumns(10);
       textField_1 = new JTextField();
       textField_1.setFont(new Font("Tahoma", Font.PLAIN, 18));
       textField 1.setColumns(10);
       textField 1.setBounds(193, 164, 227, 28);
       frame.getContentPane().add(textField_1);
       textField_2 = new JTextField();
       textField_2.setFont(new Font("Tahoma", Font.PLAIN, 18));
       textField 2.setColumns(10);
       textField_2.setBounds(193, 228, 227, 28);
       frame.getContentPane().add(textField_2);
       textField 3 = new JTextField();
       textField_3.setFont(new Font("Tahoma", Font.PLAIN, 18));
       textField_3.setColumns(10);
       textField_3.setBounds(193, 288, 227, 28);
       frame.getContentPane().add(textField_3);
       JLabel lblNewLabel 1 1 = new JLabel("Email:");
```

```
lblNewLabel_1_1.setFont(new Font("Tahoma", Font.BOLD, 18));
lblNewLabel 1 1.setBounds(102, 161, 66, 34);
frame.getContentPane().add(lblNewLabel 1 1);
JLabel lblNewLabel_1_2 = new JLabel("Phone :");
lblNewLabel_1_2.setFont(new Font("Tahoma", Font.BOLD, 18));
lblNewLabel 1 2.setBounds(91, 225, 77, 34);
frame.getContentPane().add(lblNewLabel_1_2);
JLabel lblNewLabel 1 3 = new JLabel("Password:");
lblNewLabel_1_3.setFont(new Font("Tahoma", Font.BOLD, 18));
lblNewLabel_1_3.setBounds(68, 285, 100, 34);
frame.getContentPane().add(lblNewLabel_1_3);
JLabel lblNewLabel_1_4 = new JLabel("Age :");
lblNewLabel_1_4.setFont(new Font("Tahoma", Font.BOLD, 18));
lblNewLabel 1 4.setBounds(494, 104, 66, 34);
frame.getContentPane().add(lblNewLabel_1_4);
JLabel lblNewLabel 1 5 = new JLabel("Address:");
lblNewLabel_1_5.setFont(new Font("Tahoma", Font.BOLD, 18));
lblNewLabel_1_5.setBounds(469, 164, 91, 34);
frame.getContentPane().add(lblNewLabel_1_5);
JLabel lblNewLabel_1_6 = new JLabel("PinCode :");
lblNewLabel 1 6.setFont(new Font("Tahoma", Font.BOLD, 18));
lblNewLabel 1 6.setBounds(469, 285, 91, 34);
frame.getContentPane().add(lblNewLabel_1_6);
textField 4 = new JTextField();
textField_4.setFont(new Font("Tahoma", Font.PLAIN, 18));
textField_4.setColumns(10);
textField 4.setBounds(570, 104, 227, 28);
frame.getContentPane().add(textField_4);
textField 6 = new JTextField();
textField_6.setFont(new Font("Tahoma", Font.PLAIN, 18));
textField_6.setColumns(10);
textField_6.setBounds(570, 288, 227, 28);
frame.getContentPane().add(textField 6);
JTextArea textArea = new JTextArea();
textArea.setBounds(570, 164, 227, 99);
frame.getContentPane().add(textArea);
JButton btnNewButton = new JButton("Register");
btnNewButton.setFont(new Font("Tahoma", Font.BOLD, 18));
btnNewButton.setBounds(570, 387, 123, 41);
frame.getContentPane().add(btnNewButton);
JButton btnBack = new JButton("Back");
btnBack.setFont(new Font("Tahoma", Font.BOLD, 18));
btnBack.setBounds(194, 387, 123, 41);
frame.getContentPane().add(btnBack);
JPanel panel = new JPanel();
```

```
panel.setBackground(SystemColor.desktop);
                panel.setBounds(0, 0, 863, 74);
               frame.getContentPane().add(panel);
               //register
               btnNewButton.addActionListener(new ActionListener() {
                       public void actionPerformed(ActionEvent arg0) {
                               try
                                       String username = textField.getText();
                                       String password = textField_3.getText();
                                       String phone = textField_2.getText();
                                       String address = textArea.getText();
                                       String pincode = textField_6.getText();
                                       conn cobj = new conn();
                                       String query = "select * from merchant;";
                                       ResultSet rs = cobj.st.executeQuery(query);
                                       boolean flag = false;
                                       while(rs.next())
                                               if(rs.getString("username").equals(username))
                                                       JOptionPane.showMessageDialog(frame, "Username already
exists !","Register",JOptionPane.ERROR_MESSAGE);
                                                       flag = true;
                                                       break;
                                               }
                                       if(!flag)
                                               String query1 = "select count(*) as count from merchant;";
                                               rs = cobj.st.executeQuery(query1);
                                               rs.next();
                                               int cnum = rs.getInt("count") + 1;
                                               String cust_id = "m" + Integer.toString(cnum);
                                               String query2 = "insert into merchant values("+cust_id+"',
"'+username+"', "'+password+"', 0,0,"'+ phone+"',"+address+"',"'+pincode+"');";
                                               cobj.st.executeUpdate(query2);
                                               Wallet.createWallet(cust_id);
                                               JOptionPane.showMessageDialog(frame, "Registration
successful", "Register", JOptionPane. INFORMATION_MESSAGE);
                                               btnBack.doClick();
```

```
} catch(Exception e)
                                       e.printStackTrace();
          });
         //back
         btnBack.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent arg0) {
                              frame.setVisible(false);
                              Login.loginobj.frmShoppie.setVisible(true);
          });
}
```

RetailerTab.java

```
import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JLabel;
import java.awt.Font;
import javax.swing.JList;
import java.awt.Color;
import javax.swing.JTabbedPane;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import java.awt.SystemColor;
import javax.swing.JPanel;
import javax.swing.ImageIcon;
public class RetailerTab {
        private JFrame frame;
        /**
        * Launch the application.
        public static void main(String[] args) {
                EventQueue.invokeLater(new Runnable() {
                        public void run() {
                                try {
                                        RetailerTab window = new RetailerTab();
                                        window.frame.setVisible(true);
                                } catch (Exception e) {
                                        e.printStackTrace();
                        }
                });
        * Create the application.
        public RetailerTab() {
                EventQueue.invokeLater(new Runnable() {
                        public void run() {
                                try {
                                        frame.setVisible(true);
                                } catch (Exception e) {
                                        e.printStackTrace();
                });
                initialize();
```

```
* Initialize the contents of the frame.
private void initialize() {
       frame = new JFrame();
       frame.getContentPane().setBackground(new Color(128, 128, 128));
       frame.setBounds(100, 100, 941, 576);
       frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       frame.getContentPane().setLayout(null);
       String uname = Login.username ip.toUpperCase();
       JLabel lblNewLabel = new JLabel("Hello " + uname + " !");
       lblNewLabel.setBackground(Color.BLACK);
       lblNewLabel.setForeground(Color.BLACK);
       lblNewLabel.setFont(new Font("Tahoma", Font.BOLD, 28));
       lblNewLabel.setBounds(361, 11, 263, 54);
       frame.getContentPane().add(lblNewLabel);
       JButton btnNewButton = new JButton("Sell Items");
       btnNewButton.setBorderPainted(false):
       btnNewButton.setFont(new Font("Tahoma", Font.BOLD, 18));
       btnNewButton.setForeground(Color.WHITE);
       btnNewButton.setBackground(Color.BLACK);
       btnNewButton.setBounds(382, 160, 171, 54);
       frame.getContentPane().add(btnNewButton);
       JButton btnMyOrders = new JButton("My Products");
       btnMyOrders.setBorderPainted(false);
       btnMyOrders.setForeground(Color.WHITE);
       btnMyOrders.setFont(new Font("Tahoma", Font.BOLD, 18));
       btnMyOrders.setBackground(Color.BLACK);
       btnMyOrders.setBounds(133, 303, 171, 54);
       frame.getContentPane().add(btnMyOrders);
       JButton btnMyWallet = new JButton("My Wallet");
       btnMyWallet.setBorderPainted(false);
       btnMyWallet.setForeground(Color.WHITE);
       btnMyWallet.setFont(new Font("Tahoma", Font.BOLD, 18));
       btnMyWallet.setBackground(Color.BLACK);
       btnMyWallet.setBounds(382, 303, 171, 54);
       frame.getContentPane().add(btnMyWallet);
       JButton btnBack = new JButton("Logout");
       btnBack.setBorderPainted(false);
       btnBack.setForeground(Color.WHITE);
       btnBack.setFont(new Font("Tahoma", Font.BOLD, 18));
       btnBack.setBackground(Color.BLACK);
       btnBack.setBounds(391, 451, 162, 41);
       frame.getContentPane().add(btnBack);
       JButton btnMyInfo = new JButton("My Info");
       btnMyInfo.setBorderPainted(false);
       btnMyInfo.setForeground(Color.WHITE);
       btnMyInfo.setFont(new Font("Tahoma", Font.BOLD, 18));
       btnMyInfo.setBackground(Color.BLACK);
       btnMyInfo.setBounds(630, 303, 171, 54);
```

```
frame.getContentPane().add(btnMyInfo);
JPanel panel = new JPanel();
panel.setBackground(new Color(255, 127, 80));
panel.setBounds(0, 0, 927, 83);
frame.getContentPane().add(panel);
JLabel lblNewLabel_1 = new JLabel("New label");
lblNewLabel_1.setIcon(new ImageIcon(RetailerTab.class.getResource("/icons/ecom.jpg")));
lblNewLabel_1.setBounds(0, 82, 927, 457);
frame.getContentPane().add(lblNewLabel_1);
//Logout button
btnBack.addActionListener(new ActionListener() {
       public void actionPerformed(ActionEvent arg0) {
               frame.dispose();
               Login.loginobj.frmShoppie.setVisible(true);
});
//My wallet Button
btnMyWallet.addActionListener(new ActionListener() {
       public void actionPerformed(ActionEvent arg0) {
               frame.dispose();
               new Wallet();
});
//Sell Items button
btnNewButton.addActionListener(new ActionListener() {
       public void actionPerformed(ActionEvent arg0) {
               frame.dispose();
               new SellItems();
});
//My products button
btnMyOrders.addActionListener(new ActionListener() {
       public void actionPerformed(ActionEvent arg0) {
               frame.dispose();
               new MyProducts();
});
//My Info button
btnMyInfo.addActionListener(new ActionListener() {
       public void actionPerformed(ActionEvent arg0) {
```

			_	frame.dispose(); new MyInfo();
1	}	}) ;	}	
}				

SellItems.java: import java.awt.EventQueue; import javax.swing.JFrame; import javax.swing.JLabel; import javax.swing.JOptionPane; import java.awt.Font; import javax.swing.JTextField; import javax.swing.JButton; import java.awt.event.ActionListener; import java.sql.ResultSet; import java.sql.SQLException; import java.awt.event.ActionEvent; import javax.swing.JSeparator; import java.awt.Color; import javax.swing.SwingConstants; import java.awt.SystemColor; import javax.swing.JPanel; public class SellItems { private JFrame frame; private JTextField textField; private JTextField textField_1; private JTextField textField 2; private JTextField textField_3; private JTextField textField_4; /** * Launch the application. public static void main(String[] args) { EventQueue.invokeLater(new Runnable() { public void run() { try { SellItems window = new SellItems(); window.frame.setVisible(true); } catch (Exception e) { e.printStackTrace(); }); } * Create the application. public SellItems() {

EventQueue.invokeLater(new Runnable() {

frame.setVisible(true);

public void run() {
 try {

```
} catch (Exception e) {
                              e.printStackTrace();
       });
       initialize();
}
* Initialize the contents of the frame.
private void initialize() {
       frame = new JFrame();
       frame.setBounds(100, 100, 955, 530);
       frame.setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
       frame.getContentPane().setLayout(null);
       JLabel lblNewLabel = new JLabel("Sell Your Products");
       lblNewLabel.setBounds(368, 11, 243, 42);
       lblNewLabel.setFont(new Font("Tahoma", Font.BOLD, 25));
       frame.getContentPane().add(lblNewLabel);
       JLabel lblNewLabel 1 = new JLabel("Product Name:");
       lblNewLabel 1.setFont(new Font("Tahoma", Font.BOLD, 19));
       lblNewLabel 1.setBounds(26, 121, 161, 31);
       frame.getContentPane().add(lblNewLabel 1);
       JLabel lblNewLabel_1_1 = new JLabel("Product Tags :");
       lblNewLabel 1 1.setFont(new Font("Tahoma", Font.BOLD, 19));
       lblNewLabel_1_1.setBounds(26, 198, 161, 31);
       frame.getContentPane().add(lblNewLabel_1_1);
       JLabel lblNewLabel_1_2 = new JLabel("Product Price :");
       lblNewLabel 1 2.setFont(new Font("Tahoma", Font.BOLD, 19));
       lblNewLabel 1 2.setBounds(587, 121, 150, 31);
       frame.getContentPane().add(lblNewLabel_1_2);
       JLabel lblNewLabel_1_3 = new JLabel("Product Quantity :");
       lblNewLabel 1 3.setFont(new Font("Tahoma", Font.BOLD, 19));
       lblNewLabel 1 3.setBounds(587, 217, 187, 31);
       frame.getContentPane().add(lblNewLabel_1_3);
       textField = new JTextField();
       textField.setFont(new Font("Tahoma", Font.PLAIN, 17));
       textField.setBounds(191, 122, 302, 31);
       frame.getContentPane().add(textField);
       textField.setColumns(10);
       textField 1 = new JTextField();
       textField_1.setFont(new Font("Tahoma", Font.PLAIN, 17));
       textField_1.setColumns(10);
       textField_1.setBounds(747, 122, 135, 31);
       frame.getContentPane().add(textField_1);
       textField 2 = new JTextField();
```

```
textField_2.setFont(new Font("Tahoma", Font.PLAIN, 17));
textField 2.setColumns(10);
textField 2.setBounds(191, 199, 214, 31);
frame.getContentPane().add(textField_2);
textField 3 = new JTextField();
textField_3.setFont(new Font("Tahoma", Font.PLAIN, 17));
textField_3.setColumns(10);
textField_3.setBounds(786, 218, 96, 31);
frame.getContentPane().add(textField 3);
JButton btnNewButton = new JButton("Add");
btnNewButton.setFont(new Font("Tahoma", Font.BOLD, 18));
btnNewButton.setBounds(426, 199, 67, 31);
frame.getContentPane().add(btnNewButton);
JButton btnBack = new JButton("Back");
btnBack.setFont(new Font("Tahoma", Font.BOLD, 20));
btnBack.setBounds(60, 413, 108, 42);
frame.getContentPane().add(btnBack);
JButton btnListMyProduct = new JButton("List my Product");
btnListMyProduct.setFont(new Font("Tahoma", Font.BOLD, 20));
btnListMyProduct.setBounds(657, 413, 208, 42);
frame.getContentPane().add(btnListMyProduct);
JSeparator separator = new JSeparator();
separator.setOrientation(SwingConstants.VERTICAL);
separator.setBounds(542, 103, 35, 260);
frame.getContentPane().add(separator);
textField_4 = new JTextField();
textField 4.setFont(new Font("Tahoma", Font.ITALIC, 15));
textField 4.setBackground(SystemColor.inactiveCaption);
textField 4.setEditable(false);
textField 4.setBounds(26, 255, 467, 31);
frame.getContentPane().add(textField_4);
textField_4.setColumns(10);
JButton btnClear = new JButton("Clear"):
btnClear.setFont(new Font("Tahoma", Font.BOLD, 17));
btnClear.setBounds(229, 297, 82, 29);
frame.getContentPane().add(btnClear);
JPanel panel = new JPanel();
panel.setBackground(SystemColor.desktop);
panel.setBounds(0, 1, 941, 73);
frame.getContentPane().add(panel);
//back button
btnBack.addActionListener(new ActionListener() {
       public void actionPerformed(ActionEvent arg0) {
               frame.dispose();
```

```
new RetailerTab();
                       }
               });
               //add tag button
               btnNewButton.addActionListener(new ActionListener() {
                       public void actionPerformed(ActionEvent arg0) {
                               String newTag = textField_2.getText();
                               String Tags = textField_4.getText();
                               if(newTag.equals(""))
                                      JOptionPane.showMessageDialog(frame, "Add a valid tag !", "Sell"
,JOptionPane.INFORMATION_MESSAGE);
                               else
                                      if(Tags.equals("")) {textField_4.setText(newTag);}
                                      else {textField_4.setText(Tags + "/" + newTag);}
                               textField_2.setText("");
                       }
               });
               //list my product button
               btnListMyProduct.addActionListener(new ActionListener() {
                       public void actionPerformed(ActionEvent arg0) {
                               try
                                      String prodName = textField.getText();
                                      int prodPrice = Integer.parseInt(textField_1.getText());
                                       String prodTags = textField_4.getText();
                                      int prodQuantity = Integer.parseInt(textField_3.getText());
                                      addToProducts(prodName, prodPrice, prodTags, prodQuantity);
                                      JOptionPane.showMessageDialog(frame, prodName + " ("+prodQuantity+")
successfully listed", "Sell", JOptionPane. INFORMATION_MESSAGE);
                               catch(Exception e)
                                      JOptionPane.showMessageDialog(frame, "Invalid Text Fields!", "Sell"
,JOptionPane.INFORMATION_MESSAGE);
                       }
               });
```

```
//clear button
                btnClear.addActionListener(new ActionListener() {
                        public void actionPerformed(ActionEvent arg0) {
                                textField_4.setText("");
                        }
                });
        }
        public void addToProducts(String prodName, int prodPrice, String prodTags, int prodQuantity)
                try
                        conn cobj = new conn();
                        String query1, query2;
                        query1 = "select count(*) as count from products;";
                        ResultSet rs;
                        rs = cobj.st.executeQuery(query1);
                        rs.next();
                        int count = rs.getInt("count") + 1;
                        String prodId = "p" + Integer.toString(count);
                        double initial Rating = 0;
                        int reviews = 0;
                        String retailerId = Login.userId;
                        query2 = "insert into products values(" + prodId + "'," + prodName + "'," + prodTags + "'," +
prodPrice
                                        + "," + initialRating + "," + prodQuantity + "," + retailerId + "'," + reviews +");";
                        cobj.st.executeUpdate(query2);
                catch (SQLException e)
                        e.printStackTrace();
        }
```

Shop.java:

```
import java.awt.EventQueue;
import javax.swing.JFrame;
import javax.swing.JSpinner;
import java.awt.BorderLayout;
import java.awt.Color;
import javax.swing.JTable;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JScrollPane;
import java.awt.Font;
import javax.swing.JTextField;
import javax.swing.JButton;
import javax.swing.table.DefaultTableModel;
import javax.swing.table.JTableHeader;
import javax.swing.border.SoftBevelBorder;
import javax.swing.border.BevelBorder;
import java.awt.event.ActionListener;
import java.io.IOException;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.Arrays;
import java.util.LinkedList;
import java.util.List;
import java.awt.event.ActionEvent;
import javax.swing.border.LineBorder;
import java.lang.Exception;
import javax.swing.JPanel;
import java.awt.SystemColor;
public class Shop {
       private JFrame frame;
       private JTextField textField;
       private JTable table;
       private JTextField textField 1;
        * Launch the application.
       public static void main(String[] args) {
               EventQueue.invokeLater(new Runnable() {
                       public void run() {
                               try {
                                       Shop window = new Shop();
                                       window.frame.setVisible(true);
                               } catch (Exception e) {
                                       e.printStackTrace();
```

```
});
}
/**
* Create the application.
public Shop()
       EventQueue.invokeLater(new Runnable() {
               public void run() {
                       try {
                               frame.setVisible(true);
                       } catch (Exception e) {
                               e.printStackTrace();
               }
       });
       initialize();
}
* Initialize the contents of the frame.
private void initialize() {
       frame = new JFrame();
       frame.getContentPane().setFont(new Font("Tahoma", Font.PLAIN, 15));
       frame.setBounds(100, 100, 788, 635);
       frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       frame.getContentPane().setLayout(null);
       JLabel lblNewLabel = new JLabel("Search :");
       lblNewLabel.setFont(new Font("Tahoma", Font.BOLD, 20));
       lblNewLabel.setBounds(35, 85, 94, 35);
       frame.getContentPane().add(lblNewLabel);
       textField = new JTextField();
       textField.setFont(new Font("Tahoma", Font.PLAIN, 15));
       textField.setBounds(132, 89, 412, 31);
       frame.getContentPane().add(textField);
       textField.setColumns(10);
       JButton btnNewButton = new JButton("Search");
       btnNewButton.setFont(new Font("Tahoma", Font.BOLD, 15));
       btnNewButton.setBounds(575, 89, 89, 31);
       frame.getContentPane().add(btnNewButton);
       table = new JTable();
       table.setRowHeight(20);
       table.setFont(new Font("Tahoma", Font.PLAIN, 15));
       DefaultTableModel model = new DefaultTableModel(
                       new Object[][] {
                       },
                       new String[] {
                               "Product Id", "Name", "Price", "Rating", "Quantity"
```

```
);
table.setModel(model);
table.getColumnModel().getColumn(1).setPreferredWidth(189);
table.getColumnModel().getColumn(2).setPreferredWidth(67);
table.getColumnModel().getColumn(3).setPreferredWidth(49);
table.getColumnModel().getColumn(4).setPreferredWidth(56);
//table.setBounds(35, 94, 693, 353);
//frame.getContentPane().add(table);
JScrollPane scrollPane = new JScrollPane(table);
scrollPane.setBorder(new LineBorder(new Color(130, 135, 144), 3, true));
scrollPane.setFont(new Font("Tahoma", Font.BOLD, 15));
scrollPane.setBounds(35, 141, 695, 386);
JTableHeader Theader = table.getTableHeader();
Theader.setBackground(Color.GRAY);
Theader.setForeground(Color.BLACK);
Theader.setFont(new Font("Tahoma", Font.BOLD, 15));
frame.getContentPane().add(scrollPane);
JButton btnNewButton 1 = new JButton("Buy");
btnNewButton_1.setFont(new Font("Tahoma", Font.BOLD, 20));
btnNewButton 1.setBounds(641, 551, 89, 35);
frame.getContentPane().add(btnNewButton 1);
JLabel lblNewLabel_1 = new JLabel("Quantity:");
lblNewLabel_1.setFont(new Font("Tahoma", Font.BOLD, 18));
lblNewLabel 1.setBounds(202, 552, 100, 35);
frame.getContentPane().add(lblNewLabel_1);
textField 1 = new JTextField();
textField_1.setFont(new Font("Tahoma", Font.PLAIN, 18));
textField 1.setBounds(300, 554, 55, 31);
frame.getContentPane().add(textField 1);
textField_1.setColumns(10);
JButton btnNewButton_2 = new JButton("Back");
btnNewButton 2.setFont(new Font("Tahoma", Font.BOLD, 18));
btnNewButton 2.setBounds(35, 552, 100, 35);
frame.getContentPane().add(btnNewButton_2);
JButton btnNewButton_1_1 = new JButton("Add To Cart");
btnNewButton_1_1.setFont(new Font("Tahoma", Font.BOLD, 17));
btnNewButton 1 1.setBounds(479, 552, 135, 35);
frame.getContentPane().add(btnNewButton_1_1);
JLabel lblShop = new JLabel("Shop");
lblShop.setFont(new Font("Tahoma", Font.BOLD, 25));
lblShop.setBounds(337, 11, 94, 35);
frame.getContentPane().add(lblShop);
JPanel panel = new JPanel();
panel.setBackground(SystemColor.desktop);
panel.setBounds(0, 0, 774, 63);
```

```
frame.getContentPane().add(panel);
               //Search button
               btnNewButton.addActionListener(new ActionListener() {
                       public void actionPerformed(ActionEvent arg0) {
                               int numRows = model.getRowCount();
                               for(int i=numRows-1; i>=0; i--)
                                       model.removeRow(i);
                               String search = textField.getText().toLowerCase();
                               String[] searchTags = search.split(" ");
                               conn cobj = new conn();
                               String query = "SELECT * FROM products;";
                                       ResultSet rs = cobj.st.executeQuery(query);
                                       while(rs.next())
                                               String products = rs.getString("Tag").toLowerCase();
                                               String[] productTags = products.split("/");
                                               int flag = 0;
                                               for(String s1: searchTags)
                                                       for(String s2: productTags)
                                                               if(s1.equals(s2))
                                                                       String prod_Id = rs.getString("Product_Id");
                                                                       String prod_Name = rs.getString("Name");
                                                                       String prod_Price = rs.getString("Price");
                                                                       String prod_Rating = rs.getString("Rating");
                                                                       String prod_Quantity = rs.getString("Quantity");
                                                                       Object[] newRow = {prod_Id, prod_Name,
prod_Price, prod_Rating, prod_Quantity};
                                                                       model.addRow(newRow);
                                                                       flag = 1; break;
                                                       if(flag == 1) break;
                               catch (SQLException e)
                                       e.printStackTrace();
```

```
}
               });
               //Buy button
               btnNewButton 1.addActionListener(new ActionListener() {
                       public void actionPerformed(ActionEvent arg0) {
                               int orderQuantity=0;
                               int prod_Price=0;
                               String prod_Id=null;
                               String prod Name=null;
                               String prod Pricestr=null;
                               int prod_Quantity=0;
                               try
                                       try
                                              prod_Id = (String) model.getValueAt(table.getSelectedRow(), 0);
                                              prod_Name = (String) model.getValueAt(table.getSelectedRow(), 1);
                                              prod Pricestr = (String) model.getValueAt(table.getSelectedRow(), 2);
                                              prod Quantity = Integer.parseInt((String)
model.getValueAt(table.getSelectedRow(), 4));
                                              prod_Price = Integer.parseInt(prod_Pricestr);
                                       }
                                       catch(Exception e)
                                              throw new MyException.ProductNotSelected("");
                                       try{orderQuantity = Integer.parseInt(textField_1.getText());}
                                       catch(Exception e) {throw new MyException.Invalid_tf_shop("");}
                                       if(orderQuantity==0) {throw new MyException.Invalid tf shop("");}
                                       int totalPrice = prod_Price*orderQuantity;
                                       int currBalance = Wallet.checkBalance(Login.userId);
                                      //successful purchase
                                       if((prod_Quantity>=orderQuantity) && (currBalance >= totalPrice))
                                              Wallet.updateBalance(currBalance - totalPrice);
                                              Wallet.addToRetailerBalance(getRetailerId(prod Id), totalPrice);
                                              updateQuantity(prod Id, prod Quantity - orderQuantity);
                                              addToOrders(Login.userId, prod_Id, orderQuantity);
                                              JOptionPane.showMessageDialog(frame, prod_Name + "
("+orderQuantity+") Successfully purchased", "Purchase", JOptionPane.INFORMATION_MESSAGE);
                                              btnNewButton.doClick();
                                                                             //refreshing content
                                       }
```

```
else if(currBalance < totalPrice)
                                             JOptionPane.showMessageDialog(frame, "Insufficient funds in wallet
!\nWallet balance : "+currBalance, "Purchase", JOptionPane. INFORMATION_MESSAGE);
                                      else
                                             JOptionPane.showMessageDialog(frame, "Products unavailable
currently !", "Purchase", JOptionPane.INFORMATION_MESSAGE);
                              catch(MyException.Invalid_tf_shop e1)
                                      JOptionPane.showMessageDialog(frame, "Enter valid Quantity
!","Purchase",JOptionPane.INFORMATION_MESSAGE);
                              catch(MyException.ProductNotSelected e2)
                                      JOptionPane.showMessageDialog(frame, "First select a product to buy!",
"Purchase" ,JOptionPane.INFORMATION_MESSAGE);
               });
               //back button
               btnNewButton_2.addActionListener(new ActionListener() {
                      public void actionPerformed(ActionEvent arg0) {
                              frame.dispose();
                              new CustomerTab();
                      }
               });
               //add to cart button
               btnNewButton 1 1.addActionListener(new ActionListener() {
                      public void actionPerformed(ActionEvent arg0) {
                              String prodId = (String) model.getValueAt(table.getSelectedRow(), 0);
                              String prodName = (String) model.getValueAt(table.getSelectedRow(), 1);
                              conn cobj = new conn();
                              String query1 = "SELECT products FROM cart where Customer_Id="" + Login.userId +
                              try
                                      ResultSet rs = cobj.st.executeQuery(query1);
                                      rs.next();
                                      String prodStr = rs.getString("products");
```

```
List<String> products = new LinkedList(Arrays.asList(prodStr.split(",")));
                                       products.add(prodId);
                                       String newProdStr = String.join(",", products);
                                       String query2 = "update cart set products="" + newProdStr +"" where
Customer_Id="" + Login.userId + "";";
                                       cobj.st.executeUpdate(query2);
                               catch(SQLException e)
                                       e.printStackTrace();
                                       String query3 = "insert into cart values("" + Login.userId + "',"" + prodId + "');";
                                       try{cobj.st.executeUpdate(query3);}
                                       catch(SQLException se) {se.printStackTrace();}
                               JOptionPane.showMessageDialog(frame, prodName + " added to cart !","Add to
Cart",JOptionPane.INFORMATION_MESSAGE);
                });
        }
       public static void updateQuantity(String prod_Id, int newQuantity)
               conn cobj = new conn();
               String query;
               query = "update products set quantity=" + newQuantity +" where Product_Id="" + prod_Id + "';";
               try
                       cobj.st.executeUpdate(query);
               catch (SQLException e)
                       e.printStackTrace();
        }
       public static void addToOrders(String custId, String prodId, int quantity)
               try
                       conn cobj = new conn();
                       String query1, query2;
                       query1 = "select count(*) as count from orders;";
                       ResultSet rs:
                       rs = cobj.st.executeQuery(query1);
```

```
rs.next();
                        int cnum = rs.getInt("count") + 1;
                        //String order_Id = "o" + Integer.toString(cnum);
                        int order_Id = cnum;
                        query2 = "insert into orders values(" + order_Id + "," + custId + "'," + prodId + "'," + quantity +
");";
                        cobj.st.executeUpdate(query2);
                catch (SQLException e)
                        e.printStackTrace();
        }
        public static String getRetailerId(String prodId)
                String RetailerId = "";
                try
                        conn cobj = new conn();
                        String query = "select merchant_Id from products where Product_Id="" + prodId + "';";
                        ResultSet rs = cobj.st.executeQuery(query);
                        rs.next();
                        RetailerId = rs.getString("merchant_Id");
                catch (SQLException e)
                        e.printStackTrace();
                return RetailerId;
        }
```

Test_Login.java:

```
import java.sql.*;
import java.util.Scanner;
public class Test_Login
        Test_Login() throws SQLException
                conn cobj = new conn();
                String query1 = "select UserName from customer where customer_Id = \cline{"c1}\cline{";"};
                String query2 = "insert into customer values(\c)^*, \c)^*, \c)^*; "suhail\", \c)^*;";
                String query3 = "SELECT * FROM customer;";
                Scanner sc = new Scanner(System.in);
                System.out.print("Enter Username : ");
                String uname ip = sc.nextLine();
                System.out.print("Enter Password : ");
                String pass_ip = sc.nextLine();
                ResultSet rs = cobj.st.executeQuery(query3);
                Boolean access = false;
                while(rs.next())
                        String uname = rs.getString("username");
                        String pass = rs.getString("password");
                        if(uname.equals(uname_ip) && pass.equals(pass_ip))
                                access = true;
                                break:
                if(access)
                        System.out.println("Access Granted!");
                else
                        System.out.println("Access Denied");
        }
        public static void main(String[] args) throws SQLException
                new Test_Login();
```

Wallet.java: import java.awt.EventQueue; import javax.swing.JFrame; import javax.swing.JLabel; import javax.swing.JOptionPane; import java.awt.Font; import java.sql.ResultSet; import java.sql.SQLException; import javax.swing.JTextField; import javax.swing.SwingUtilities; import javax.swing.JButton; import java.awt.event.ActionListener; import java.awt.event.ActionEvent; import javax.swing.JPanel; import java.awt.SystemColor; public class Wallet { private JFrame frame; private JTextField textField; * Launch the application. public static void main(String[] args) { EventQueue.invokeLater(new Runnable() { public void run() { try { Wallet window = new Wallet(); window.frame.setVisible(true); } catch (Exception e) { e.printStackTrace(); **})**; } /** * Create the application. public Wallet() EventQueue.invokeLater(new Runnable() { public void run() { try { frame.setVisible(true); } catch (Exception e) { e.printStackTrace();

});

```
initialize();
}
/**
* Initialize the contents of the frame.
private void initialize() {
       frame = new JFrame();
       frame.setBounds(100, 100, 548, 353);
       frame.setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
       frame.getContentPane().setLayout(null);
       JLabel lblNewLabel = new JLabel("My Wallet");
       lblNewLabel.setFont(new Font("Tahoma", Font.BOLD, 25));
       lblNewLabel.setBounds(185, 11, 139, 45);
       frame.getContentPane().add(lblNewLabel);
       String userName = Login.username ip;
       JLabel lblNewLabel_1 = new JLabel("User Name : " + userName);
       lblNewLabel_1.setFont(new Font("Tahoma", Font.BOLD, 18));
       lblNewLabel 1.setBounds(59, 79, 372, 36);
       frame.getContentPane().add(lblNewLabel_1);
       //Balance label
       String balance = checkBalance(Login.userId) + "";
       JLabel lblNewLabel_1_1 = new JLabel("Wallet Amount : " + balance);
       lblNewLabel_1_1.setFont(new Font("Tahoma", Font.BOLD, 18));
       lblNewLabel 1 1.setBounds(57, 136, 374, 36);
       frame.getContentPane().add(lblNewLabel_1_1);
       JLabel lblNewLabel 1 2 = new JLabel("Add Amount :");
       lblNewLabel_1_2.setFont(new Font("Tahoma", Font.BOLD, 18));
       lblNewLabel 1 2.setBounds(59, 195, 139, 36);
       frame.getContentPane().add(lblNewLabel_1_2);
       textField = new JTextField();
       textField.setFont(new Font("Tahoma", Font.PLAIN, 18));
       textField.setBounds(218, 195, 123, 36);
       frame.getContentPane().add(textField);
       textField.setColumns(10);
       JButton btnNewButton = new JButton("ADD");
       btnNewButton.setFont(new Font("Tahoma", Font.BOLD, 18));
       btnNewButton.setBounds(377, 196, 85, 36);
       frame.getContentPane().add(btnNewButton);
       JButton btnNewButton_1 = new JButton("Back");
       btnNewButton 1.setFont(new Font("Tahoma", Font.BOLD, 18));
       btnNewButton_1.setBounds(59, 264, 94, 36);
       frame.getContentPane().add(btnNewButton_1);
       JPanel panel = new JPanel();
       panel.setBackground(SystemColor.desktop);
       panel.setBounds(0, 0, 534, 66);
```

```
frame.getContentPane().add(panel);
               //back button
               btnNewButton_1.addActionListener(new ActionListener() {
                       public void actionPerformed(ActionEvent arg0) {
                              frame.dispose();
                              if(Login.userId.charAt(0)=='c')
                                      new CustomerTab();
                              else
                                      new RetailerTab();
                       }
               });
               //add balance button
               btnNewButton.addActionListener(new ActionListener() {
                       public void actionPerformed(ActionEvent arg0) {
                              String userId = Login.userId;
                              int balance = checkBalance(userId);
                              int newBalance = 0;
                              try
                                      int addAmount = Integer.parseInt(textField.getText());
                                      newBalance = balance + addAmount;
                                      conn cobi = new conn();
                                      String query = "update wallet set balance = " + newBalance + " where
wallet_Id=""+userId+"";";
                                      try {cobj.st.executeUpdate(query);}
                                      catch (SQLException e) {e.printStackTrace();}
                                      lblNewLabel 1 1.setText("Wallet Amount : " + newBalance);
                                      JOptionPane.showMessageDialog(frame, addAmount + " Successfully
added", "Balance", JOption Pane. INFORMATION_MESSAGE);
                              catch(Exception e)
                                      JOptionPane.showMessageDialog(frame, "Enter a valid amount
!","Balance",JOptionPane.ERROR_MESSAGE);
               });
        }
```

```
public static void createWallet(String walletId)
        conn cobj = new conn();
        String query = "insert into wallet values(" + walletId + "'," + 0 + ");";
        try
                cobj.st.executeUpdate(query);
        catch (SQLException e)
                e.printStackTrace();
}
public static int checkBalance(String userId)
        conn cobj = new conn();
        String query = "SELECT * FROM Wallet;";
        //String userId = Login.userId;
        int balance = 0;
        try
                ResultSet rs = cobj.st.executeQuery(query);
                while(rs.next())
                        String Id = rs.getString("Wallet_Id");
                        if(userId.equalsIgnoreCase(Id))
                                balance = rs.getInt("Balance");
                                return balance;
        catch (SQLException e)
                e.printStackTrace();
        return balance;
//update balance
public static void updateBalance(int newBalance)
```

```
conn cobj = new conn();
        String userId = Login.userId;
        String query = "update wallet set Balance=" + newBalance + " where Wallet_Id = "" + userId + "";";
        try
                cobj.st.executeUpdate(query);
        catch (SQLException e)
                e.printStackTrace();
}
//update retailer wallet
public static void addToRetailerBalance(String userId, int balance)
        conn cobj = new conn();
        int newBalance = balance + checkBalance(userId);
        String query = "update wallet set Balance=" + newBalance + " where Wallet_Id = "" + userId + "';";
        try
                cobj.st.executeUpdate(query);
        catch (SQLException e)
                e.printStackTrace();
```

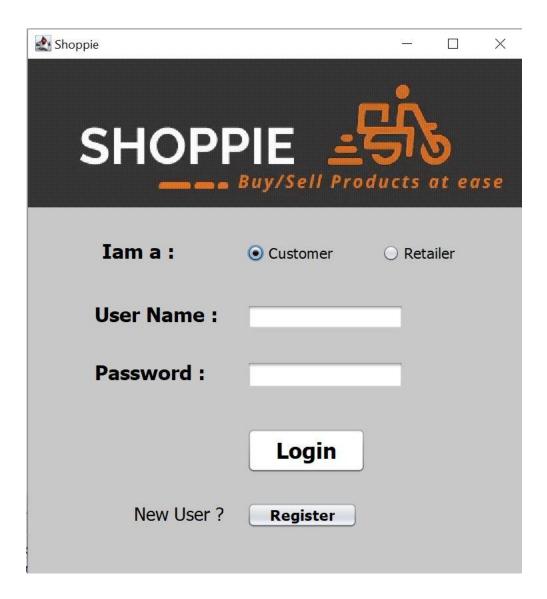
Invalid_tf_shop.java:

<u>ProductNotSelected.java:</u>

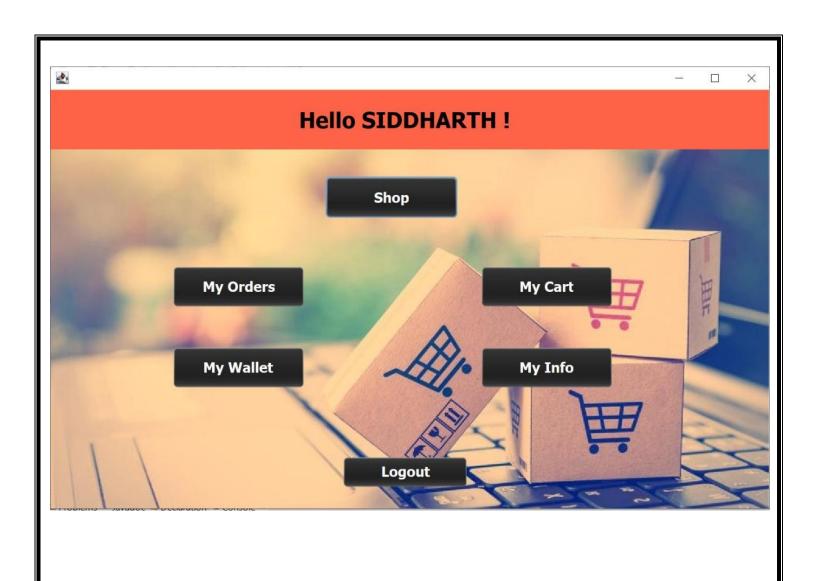
```
package MyException;

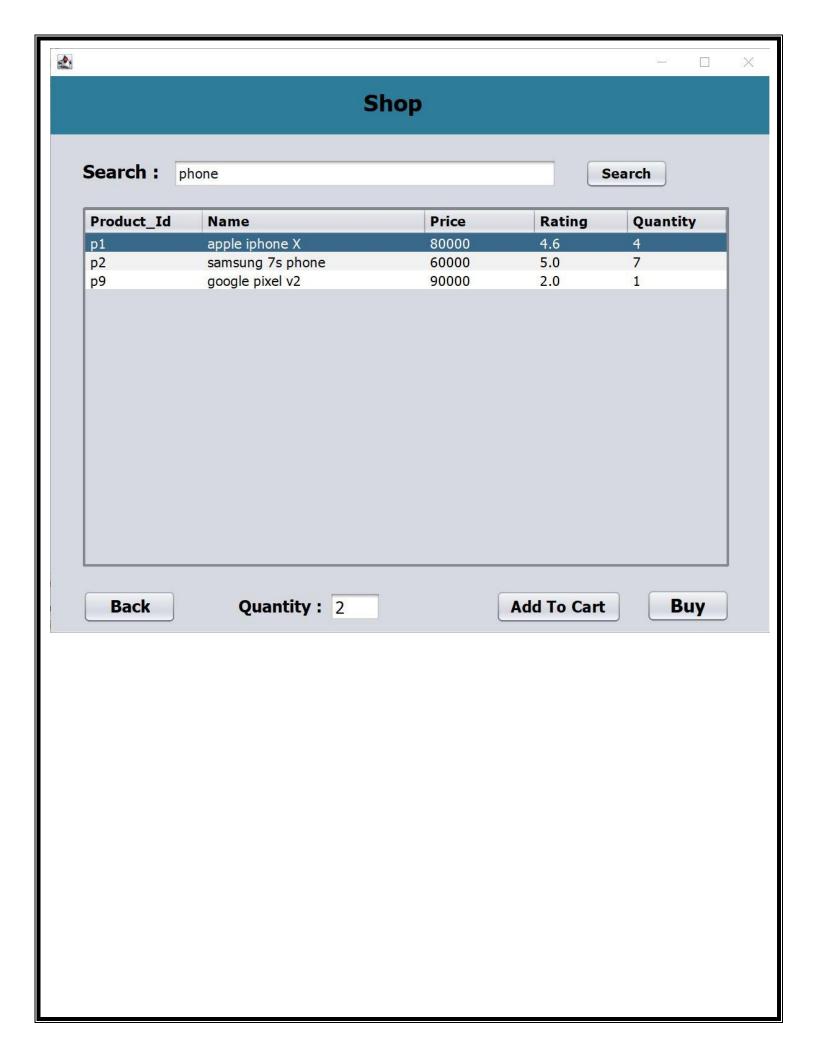
public class ProductNotSelected extends Exception {
          public ProductNotSelected(String s) {
                super(s);
          }
}
```

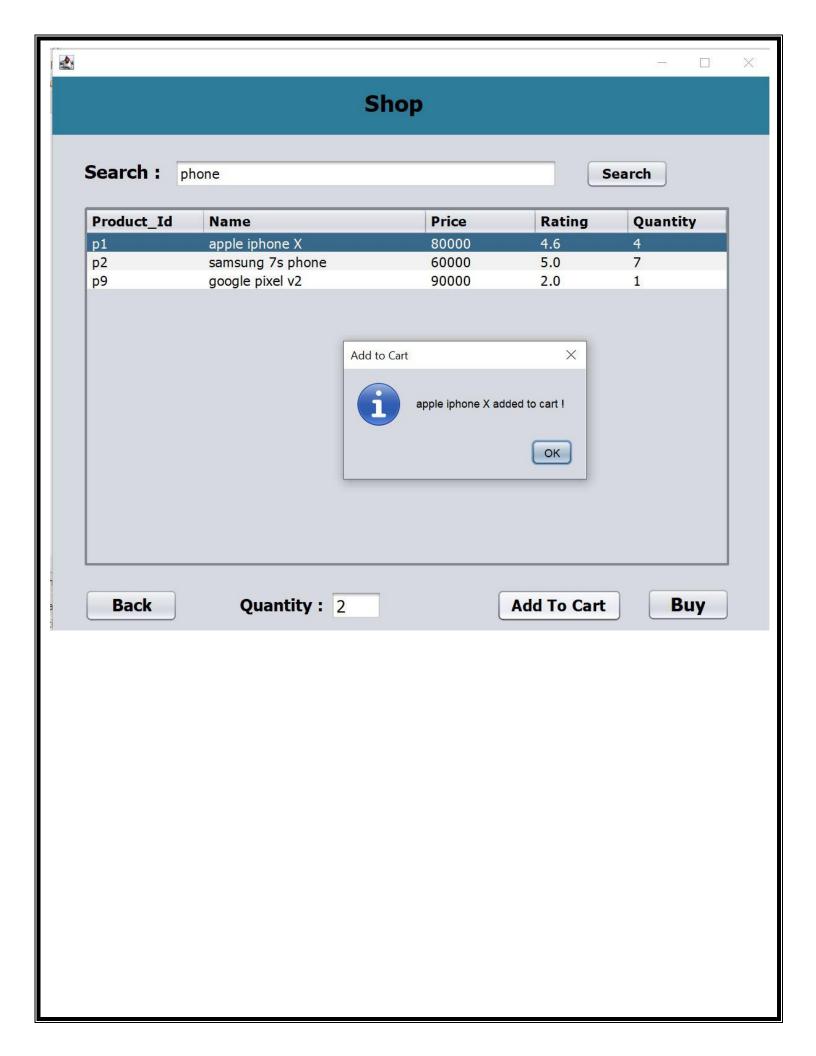
SCREENSHOTS:



2				-	×
	Customer	Registration	i		
Name :		Age:			
Email :		Address :			
Phone :					
Password :		PinCode :			
	Back		Register		
2				-	×
	Retailer	Registration	1		
Name :		Age :			
Email :		Address:			
Phone :					
Password :		PinCode :			
	Back		Register		



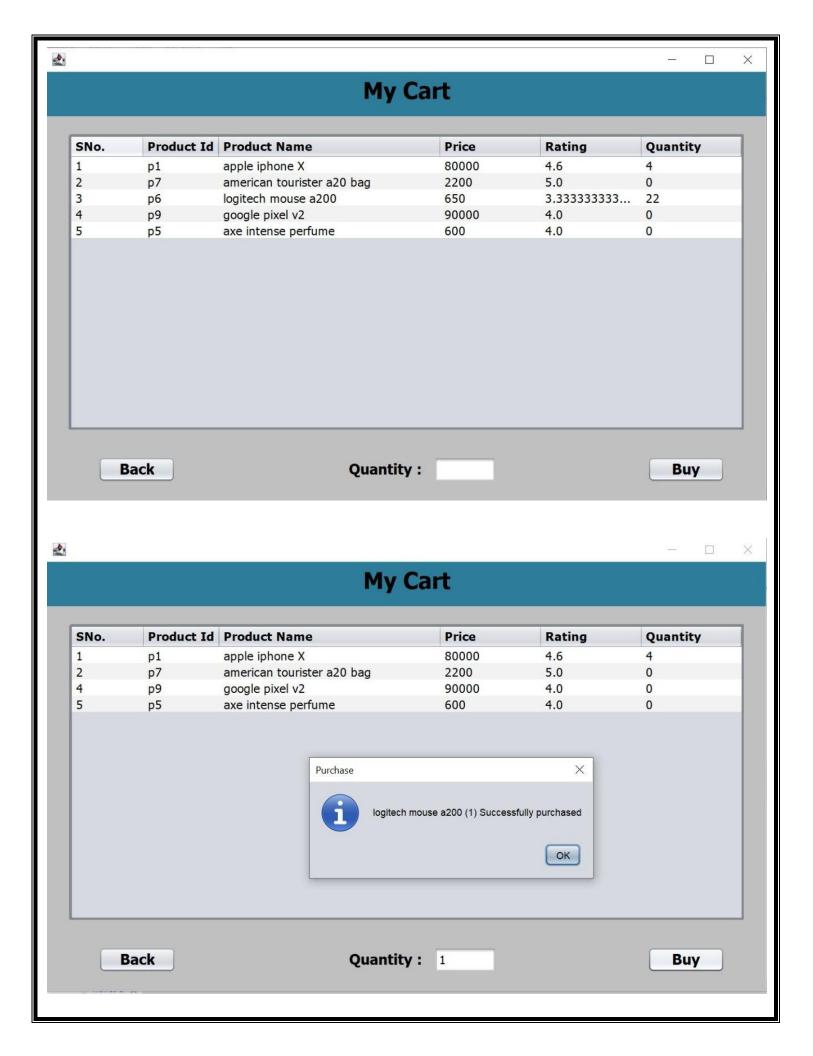


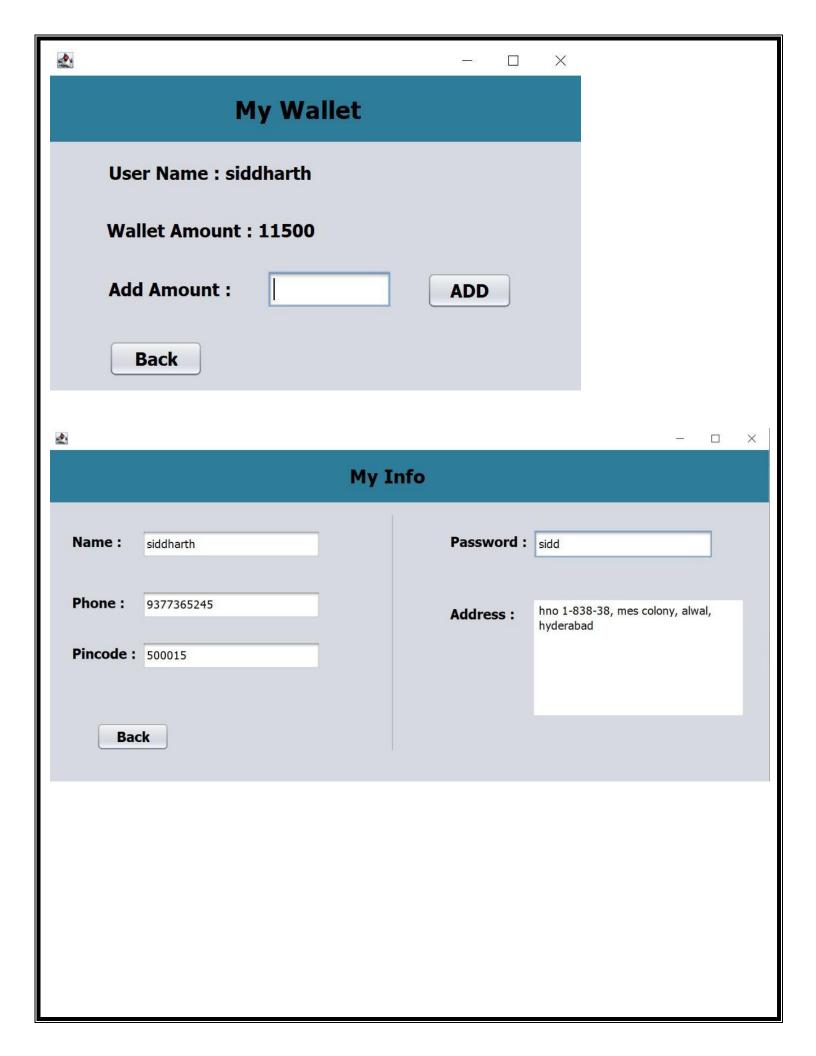


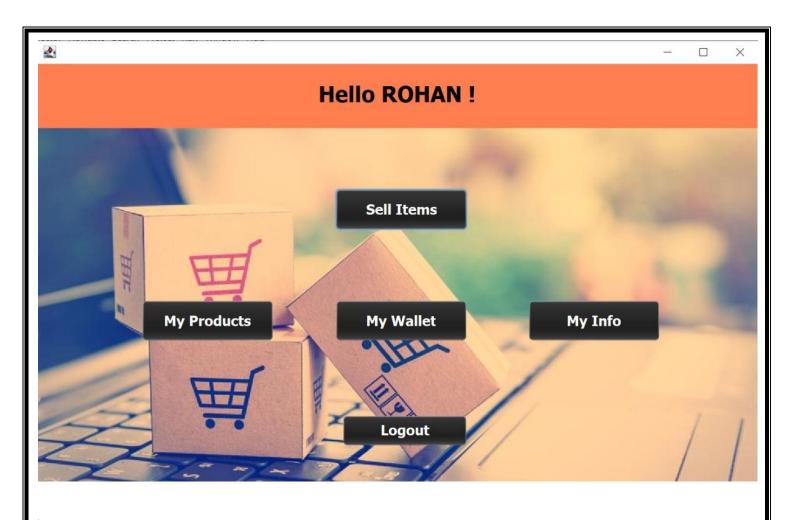




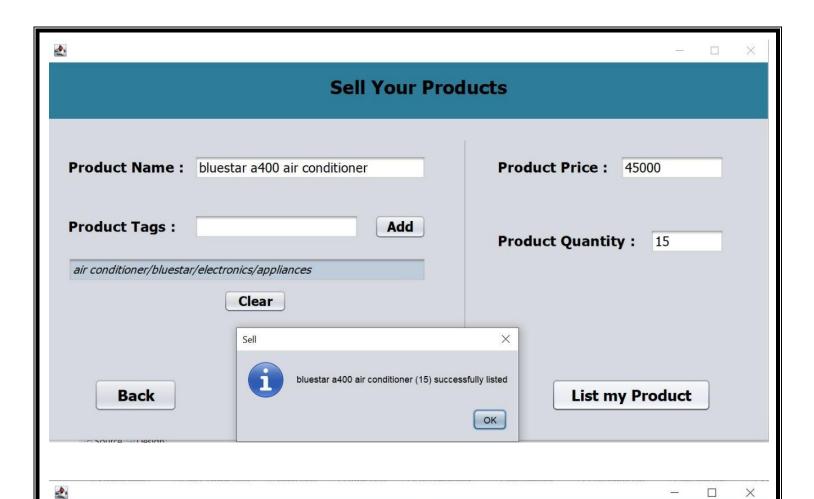








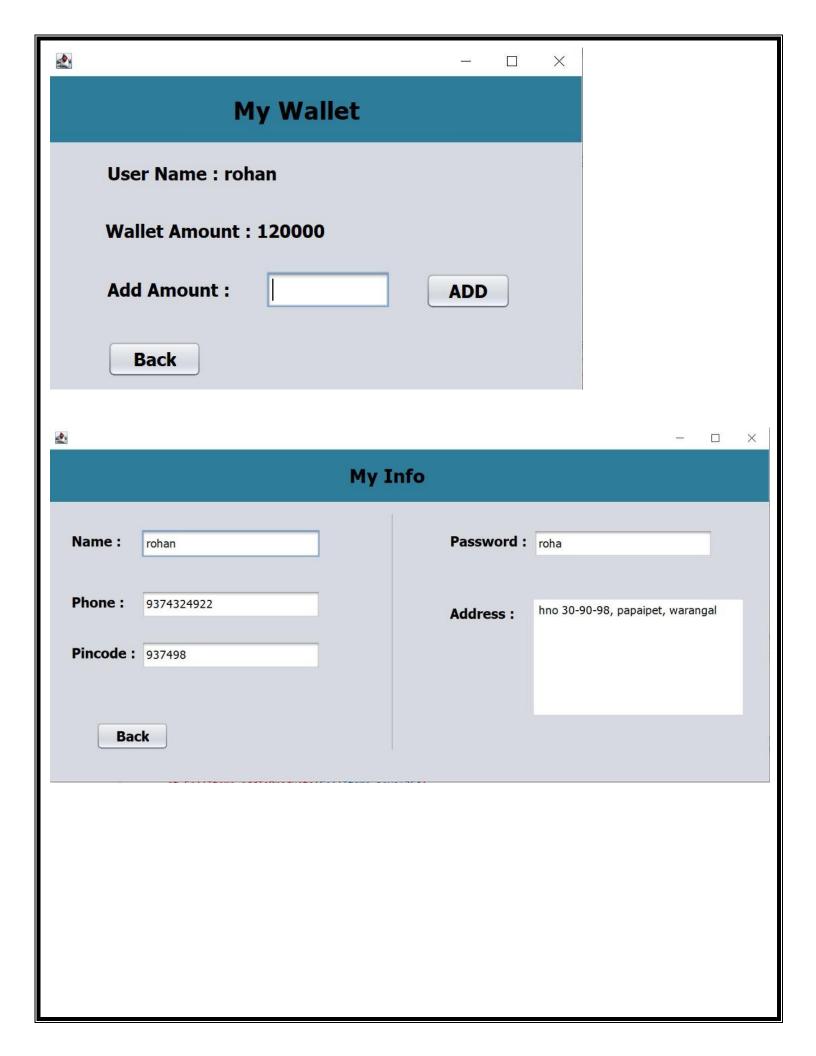




My Products

SNo.	Product Id	Product Name	Price	Rating	Quantity
1	p12	sony bravia kwl500	120000	4.0	4
2	p13	bluestar k400 AC	45000	0.0	15
-	pis	bluestal K100 AC	15000	0.0	13

Back



CONCLUSION:

In conclusion, shoppie is an E-commerce application which serves two purposes ie. buying and selling. With this application, Customers can buy and sell their products online in an easy way.

Shoppie is presetly a desktop application which uses MySQl as the database. Additional changes to the application in the future versions will be as follows:

- 1. The application will be completely hosted onto the web so that it serves its real purpose.
- 2. The transactions will become more secure to gain the trust of customers.
- 3. Many more internal features will be incorporated.