Group 8

Jarold Sabillon

Jeff Platel

Jonathan Mercer

Kelvin Dhoman

# Shoplet

A Shopping Cart Application - Functional Specification Document

The platform utilized: Java Swing



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# Glossary

* **Costs** – The sum of invoice prices for all items bought in the inventory.
* **User** – A member of the Shoplet application.
* **Product** – A good that is offered on the Shoplet application to purchase.
* **Revenues** – Sum of sell prices for all sold items purchased.
* **Profit** – Revenue minus costs.
* **Transaction** – An instance of buying or selling something between the Buyer and Seller.
* **Buyer** – Customer who is purchasing the products listed.
* **Seller** – Special user who is registered and allowed to post items to sell on the

Shoplet Application.

* **Administrator** – Special user who is a staff member of Shoplet, can administrate accounts and manage users, products, and reviews within the application.

# Introduction

## Purpose

The purpose of this document is to specify the functional requirements that are required to be implemented within the Shoplet application along with use cases for features that are within the application for users. The content outlined in this document will reflect the Shoplet application sufficiently and will represent the final Shoplet shopping application.

# Scope

## Descriptions

Buyer

The Shoplet application provides buyers with a login window where they must provide a username and password. The system will verify the user’s login credentials, or allow the user to register with a username, password, and email address. The system provides password complexity to ensure secure passwords are used. The user shall be able to update their personal information including name and address within their profile. The user once logged in can view a list of available products that are being sold, the detail of each product includes product name, price, and quantity. From this window, the user can add them to their shopping cart directly or select the item to view more details about the item. The full product description is shown when a product is selected, this includes the product’s description, pricing, reviews, and quantity availability in a pop-up window, the buyer can add the product to this window also. The current total price of the user’s products is listed in the corner of the main window. The buyer can navigate to the top corner of the window to check out and view their current cart items. If the cart icon is selected, they can check out where they are required to input their credit card information along with other personal information. The Buyer also can view seller profiles and other products that are being sold by that seller and the buyer is also able to leave product reviews and rate the product from 1-5 stars on their purchased products and allow other users to rate if they agree or disagree with the specific review. The system does not arrange for any shipping of any kind.

Seller

The Shoplet application system provides a secure seller portal where the seller will log in with their account credentials that were made when they registered. The seller creates their account; however, they must be verified by system administrators. Once the seller is logged in the seller can view their inventory with current quantity amounts, and paid pending orders, along with adding, updating, and removing products. The seller can input information about a product such as product name, invoice price, and sell price, and update the availability of an item. The system keeps track of all costs, revenues, and profits. The seller can access this information for the dashboard. The seller can respond to reviews that are made under their products and create discount codes for their products if wanted.

Administrators

The Shoplet application system provides administrator users who are staff members of Shoplet that can modify user accounts and details, modify item details, delete reviews, cancel orders and refund canceled orders to users, and serve as a support contact for the user along with deleting user reviews on products.

# Functional Requirements

## Buyers

• Shoplet **shall** provide a registration system for the **buyer** to create an account.

1. Buyers **shall** be able to use secure payment processing methods to be able to purchase the sold products.
2. Buyers **shall** have an interface to view available products that are purchasable.
3. Buyers **shall** have an edit profile form to input their personal information and save it to their accounts.
4. Buyers **shall** be allowed to save their credit card information to their accounts for faster checkouts.
5. Buyers **shall** be allowed to leave review products that were purchased.

## Sellers

• Shoplet **shall** have a **seller's** account that will be able to post new products and manage the product details.

1. Sellers **shall** be able to edit their existing product details.
2. Sellers **shall** be able to post new products on their page.
3. Sellers **shall** be able to view their profits, costs, and revenues.
4. Sellers **shall** be able to respond to reviews on their products.
5. Sellers **shall** be able to create discount codes for their products

## Administrators

• Shoplet **shall** have an **administrators** account that can manage users and sellers.

1. Administrators **shall** be able to delete buyer and seller accounts.
2. Administrators **shall** be able to edit product details.
3. Administrators **shall** be able to cancel orders and refund the cost.
4. Administrators **shall** be able to create new user/seller accounts.
5. Administrators **shall** be able to delete reviews on product pages.

# Essential Use Cases for the Shoplet Application

Log In

1. The user opens the Shoplet desktop application
2. The user is presented with a Username and Password input box window, along with the choice of creating a new account with it being a buyer account, or a seller account.
3. The user enters their account information into the username and password field which accepts either buyer, seller, or administrator account login details.
4. The user selects the “Log In” button and depending on account type is granted access to their respective side of the application.

Variation #1 Invalid Login Credentials

1. Start at step 3.
2. The user inputs the incorrect login information for their account.
3. The system prompts a warning message box that states “User already exists or does not meet criteria. Try again.”
4. Return to 2.

Create a Buyer account

1. The user selects the “Create new account” button.
2. The user inputs their desired username, password, and email address into the field.
3. The user’s account is created.

Variation #1 Existing User Credentials

* 1. Start at Step 2.
  2. User inputs an email or username that already exists within the Shoplet application.
  3. The system prompts a warning message box that states “Account already exists with that username or email. Try again.”
  4. Return to 2.

Create a Seller account

1. The user selects the “Create new account” button.
2. The user inputs their desired username, password, and email address into the field.
3. The user’s account is sent to be approved by an administrator account.

Variation #1 Existing User Credentials

* 1. Start at Step 2.
  2. The user inputs a username or password that already exists within the Shoplet application.
  3. The system prompts a warning message box that states “Account already exists with that username or email. Try again.”
  4. Return to 2.

Item added to Shopping Cart

1. User is logged into the buyer portal of the shopping application.
2. User selects the “Products” tab of the window application.
3. User selects the desired product to add to the cart.
4. User sees a + or – box with quantity and a “+” cart symbol box with the product image.
5. An “Item added” box pop-ups to notify the user the item has been added to the cart.
6. The window refreshes and the cart reflect the added item with quantity.

Variation #1 Product is not in stock at the time of adding to the cart

* 1. Start at Step 4.
  2. User tries to add an item that exceeds the stock of the item a message pops up saying: “Item out of stock”.
  3. Return to 2.

Review a product

1. User is logged into the application and selected an item that was purchased.
2. User scrolls to the Reviews section of the items
3. User inputs their review in the textbox 1 – 5 stars, and their text review of the item purchased.
4. User selects the “Post” button and posts the review.

Display items in the shopping cart

1. User selects the cart icon in the top-right of the window.
2. User views current items within their shopping cart.
3. The total price is shown, along with the user’s ability to change the quantity of each product in the cart.

Variation #1 – Remove the item from the shopping cart

* 1. Start at Step 2.
  2. User selects the item that is currently in the shopping cart to remove.
  3. User selects the “X” icon next to an item in the cart.
  4. Return to 2.

Checkout products in the cart

1. Customer navigates to the cart window.
2. Customer selects the “Checkout” button in the cart window.
3. Customer enters personal information, shipping and billing address, and payment details.
4. Customer submits payment.

Variation #1 – Payment failed

* 1. Start at Step 4
  2. User tries to submit payment and payment fails due to incorrect payment information.
  3. User is prompted a message stating “Payment failed. Check payment details and try again”.
  4. Return to 2.

Update seller inventory

1. Seller logins to the seller portal of the application.
2. Seller selects the “Catalog” area of the seller window.
3. Seller selected “View” on the respective item they want to update.
4. Seller clicks on the “Edit” button on the product window.
5. Seller changes the quantity available and selects “Update”.

Variation #1 Delete product

* 1. Start at Step 3.
  2. Seller navigates to the desired product to delete.
  3. Seller selects “Edit”
  4. Seller selects “Delete”
  5. System prompts a confirmation message to confirm deletion. Seller selects “Delete”.
  6. Product is deleted.

Add new product

1. Seller logins to the seller portal of the application.
2. Seller selects the “Catalog” area of the seller window.
3. Seller selects the “Add Product” button on the catalog window.
4. Seller inputs the appropriate details of the item including description, and price
5. Product is created and added to the seller’s profile and public to buyers.

Variation #1 Invalid Item Details

* 1. Start at Step 4
  2. Seller inputs incompatible information or an existing item exists then an “Item already exists.” warning message is prompted.
  3. Return to 3.

Create Discount Code

1. Seller selects the “Catalog” area of the seller window.
2. Seller selects the “View” button next to the desired product.
3. Seller selects “Discount code”
4. Seller inputs discount code along with % off an item.
5. Seller selects “Create”.

Create an account as an Administrator

1. Administrator logs into the secure admin panel of the application
2. Administrator selects the “Create new user” window.
3. Administrator inputs account details along with account type
4. Administrator selects “Create new account”.
5. The new user account is created and can be logged into once given the details.

Variation #1 User already exists

* 1. Start at Step 3.
  2. Administrator enters a username that already exists within the database and selects “Create new account”.
  3. System prompts the message “User already exists. Try Again”.
  4. Return to 2.

Delete user account as Administrator

1. Administrator logs into the secure admin panel of the application
2. Administrator selects the “Users” tab.
3. Administrator selects the user they wish to delete.
4. Administrator selects the “Delete” button next to the user’s account info row.

Approve seller account as Administrator

1. Administrator navigates to the “Users” area of the admin panel.
2. Administrator selects “Pending Users”
3. A list of current pending seller accounts is listed.
4. Administrator selects the “Approve” button near desired seller account.

Decline seller account as Administrator

1. Administrator navigates to the “Users” area of the admin panel.
2. Administrator selects “Pending Users”
3. A list of current pending seller accounts is listed.
4. Administrator selects the “Decline” button near desired seller account.

Edit a product’s detail as an Administrator

1. Administrator navigates to the “Users” area of the admin panel.
2. Administrator selects “Sellers” account type area
3. Administrator selects the “Edit Seller Items” button
4. Administrator edits details and then selects “Save”.

Cancel order as an Administrator

1. Administrator navigates to the “Orders” area of the admin panel.
2. Administrator finds the specific order to cancel.
3. Administrator selects “Cancel”
4. Confirmation window pops up to confirm cancellation.
5. Administrator selects “Cancel” again.
6. Message is prompted to the administrator that the order has been canceled and the money refunded.

Delete review as an Administrator

1. Administrator navigates to review the item to edit.
2. Administrator selects “Delete” under review to delete
3. System prompts a confirmation message to delete the review.
4. Administrator selects “Delete” and the review is deleted.

View overall profit report

1. Seller logins to the seller portal of the application.
2. Seller selects the “Reports” area of the seller window.
3. Seller is presented with analytics of all products combined that are associated with their profile such as total revenue, total profit, and total sales.

View specific product’s profit report

1. Seller logins to the seller portal of the application.
2. Seller selects the “Reports” area of the seller window.
3. Seller selects the “Specific Product” button in the window.
4. Seller selects a specific product that the seller sells.
5. Seller is presented with analytics of that specific product such as its total revenue, total profit, and sales from that product.

# 5. Detailed Use Cases for the Shoplet Application

Login

1. User starts the Shoplet application by clicking the desktop icon.
2. User selects the “Username” input field and enters the username.
3. User then navigate to the “Password” field and inputs their password.
4. User clicks “Login” and depending on the account type goes to the respective portal.

Variation #1 Invalid Login Credentials

* 1. Start at step 3.
  2. The user inputs the incorrect login information for their account.
  3. The system prompts a warning message box that states “Invalid Username or Password. Try again.”
  4. Return to 2.

Graphical user interface

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Register Buyer Account

1. User starts the Shoplet application by clicking the desktop icon.
2. User clicks the “Register” button, and a new window pops up.
3. User fills out the preliminary fields for account type, username, password, and their email address.
4. User clicks “Continue” to proceed to the personal information window.
5. User clicks “Complete Registration” and is then returned to the Login window upon successful account creation.

Variation #1 Existing User Credentials

* 1. Start at Step 3.
  2. User inputs an email or username that already exists within the Shoplet application.
  3. The system prompts a warning message box that states “User already exists or does not meet criteria. Try again.”
  4. Return to 3.

Register Seller Account

1. User starts the Shoplet application by clicking the desktop icon.
2. User clicks the “Register” button, and a new window pops up.
3. User fills out the preliminary fields for account type, username, password, and their email address.
4. User clicks “Continue” to proceed to the personal information window.
5. User clicks “Complete Registration” and is then returned to the Login window upon successful account creation.
6. User must then wait for a seller account to be approved by a administrator account to sell on Shoplet.

Variation #1 Existing User Credentials

* 1. Start at Step 3.
  2. User inputs an email or username that already exists within the Shoplet application.
  3. The system prompts a warning message box that states “User already exists or does not meet criteria. Try again.”
  4. Return to 3.

Graphical user interface, text, application

Description automatically generatedGraphical user interface, text, application, email

Description automatically generated

Graphical user interface, text

Description automatically generated

Graphical user interface

Description automatically generated

View Product Catalog

1. Buyer logins into the Shoplet application.
2. Buyer selects the “Products” tab to view the product catalog.
3. Buyer is presented with all products that are sold on the Shoplet application.

Text, email

Description automatically generated

Add Item to Shopping Cart

1. User is logged into the buyer portal of the shopping application.
2. Buyer selects the “Products” tab of the window application.
3. Buyer selects the desired product to add to the cart.
4. Buyer sees a “+” cart symbol box with the product image.
5. An “Item successfully added to cart.” box pop-ups to notify the user the item has been added to the cart.
6. The window refreshes and the cart [0] reflects the added item with quantity.

Variation #1 Product is not in stock at the time of adding to the cart

* 1. Start at Step 4.
  2. User tries to add an item that exceeds the stock of the item a message pops up saying: “Item not available. Try again later”.
  3. Return to 2.

Graphical user interface, text, application

Description automatically generatedGraphical user interface, text, application

Description automatically generated

View Product

1. User is logged into the buyer portal of the shopping application.
2. Buyer selects the “Products” tab of the window application.
3. Buyer selects the desired product to view and selects the “View Item” button.
4. A new window is presented with the product’s name, price, information, reviews, and a button to add it to the cart.

Text, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Review a Product

1. User is logged into the application and selected an item that has already been purchased.
2. User selects the “Leave a review” button that appears only on purchased items.
3. A new window pops up to enter their review from 1 to 5 and a text area to input their text review.
4. User selects the “Post” button and posts the review.
5. The window refreshes to reflect the newly added review.

View items in the shopping cart

1. User selects the cart button in the top-right of the window.
2. User is shown the current items within their shopping cart.
3. The total price is shown, along with the user’s ability to remove the item of each product in the cart.

Variation #1 – Remove the item from the shopping cart

* 1. Start at Step 2.
  2. User selects the item that is currently in the shopping cart to remove.
  3. User selects the “X” icon next to an item in the cart.
  4. Return to 2.

A picture containing chart

Description automatically generated

Checkout products in the cart

1. Customer navigates to the cart window.
2. Customer selects the “Checkout” button in the cart window.
3. Customer enters personal information, shipping and billing address, and payment details.
4. Customer submits payment.

Variation #1 – Payment failed

* 1. Start at Step 4
  2. User tries to submit payment and payment fails due to incorrect payment information.
  3. User is prompted a message stating “Payment failed. Check payment details and try again”.
  4. Return to 2.

Graphical user interface

Description automatically generated

Graphical user interface, text, application

Description automatically generated

View Seller Product Catalog

1. The Seller logs into their Seller portal with their username and password.
2. The Seller selects “Catalog” button at the top of the window.
3. The Seller is presented with all their available products that they have created.

Graphical user interface, text, application, email

Description automatically generated

Modify Product

1. The Seller logs into the Seller portal of the application.
2. The Seller selects “Catalog” button at the top of the window.
3. The Seller selects “View” on the product that is to be edited.
4. The Seller selects the “Edit Details” button in the top-right corner.
5. A new window pops up to edit the product’s details.
6. The seller selects “Save” and the product details are updated.

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Add New Product

1. The Seller logs into the Seller portal of the application.
2. The Seller selects “Add Product” on the product that is to be edited and a new window pops up.
3. The user fills out the “Product Name”, “Price”, “Quantity”, and “Description” fields and selects “Create” button.
4. The new product is created and updated to the Shoplet inventory.

Variation #1 Invalid Item Details

* 1. Start at Step 3
  2. Seller inputs incompatible information or an existing item exists then an “Item already exists. Try again.” warning message is prompted.
  3. Return to 2.

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Create Discount Code for Product

1. The Seller logs into the Seller portal of the application.
2. The Seller selects “Catalog” button at the top of the window.
3. The Seller selects “View” on the product that is to be edited.
4. The Seller selects the “Discount Code” button in the top-right corner.
5. A new window pops up to add a discount code to the product.
6. The seller selects “Create” and the product has a new discount code added.

Graphical user interface, text, application, email

Description automatically generated

View Profit Report

1. The Seller logs into the Seller portal of the application.
2. The Seller selects “Profit Report” button at the top of the window.
3. A new window appears that displays the profit details for the Seller account.

Graphical user interface, text

Description automatically generated

View Admin Panel

1. The User logs into their administrator account with the special username and password.
2. The system verifies the administrator account’s credentials.
3. The system opens a new window that is the admin panel that default view is the pending user’s view.

Graphical user interface, text, application, email

Description automatically generated

Admin Create New User

1. The admin logs into the admin portal of the application.
2. The admin selects “Create New User” button at the top of the window.
3. The admin specifies the account type that is being created.
4. The admin enters the user’s “Username”, “Password” and “Email” address for the specified account.
5. The admin selects the “Create” button and a new user is created with the information.

Variation #1 User already exists

* 1. Start at Step 4.
  2. Administrator enters a username or email that already exists within the database and selects “Create”.
  3. System prompts the message “User already exists. Try Again”.

1.8 Return to 2.

Graphical user interface

Description automatically generated

View Admin Panel Orders

1. The admin logs into the admin portal of the application.
2. The admin selects “Orders” button at the top of the window.
3. The admin is presented with all the orders that are currently active.

Table

Description automatically generated

View Sellers through Admin Panel

1. The admin logs into the admin portal of the application.
2. The admin selects “Active Sellers” button at the top of the window.
3. The admin is presented with all active sellers and the option to view their products.

Graphical user interface, text, application, email

Description automatically generated

Delete Review by Admin

1. Administrator navigates to “Users” to find the seller for the review to delete.
2. Administrator selects the “Products” button on the seller.
3. Administrator selects “View” under the product for the review to delete
4. System prompts a confirmation message to delete the review.
5. Administrator selects “Delete” and the review is deleted.

Graphical user interface

Description automatically generated with medium confidence

Text, application, email

Description automatically generated

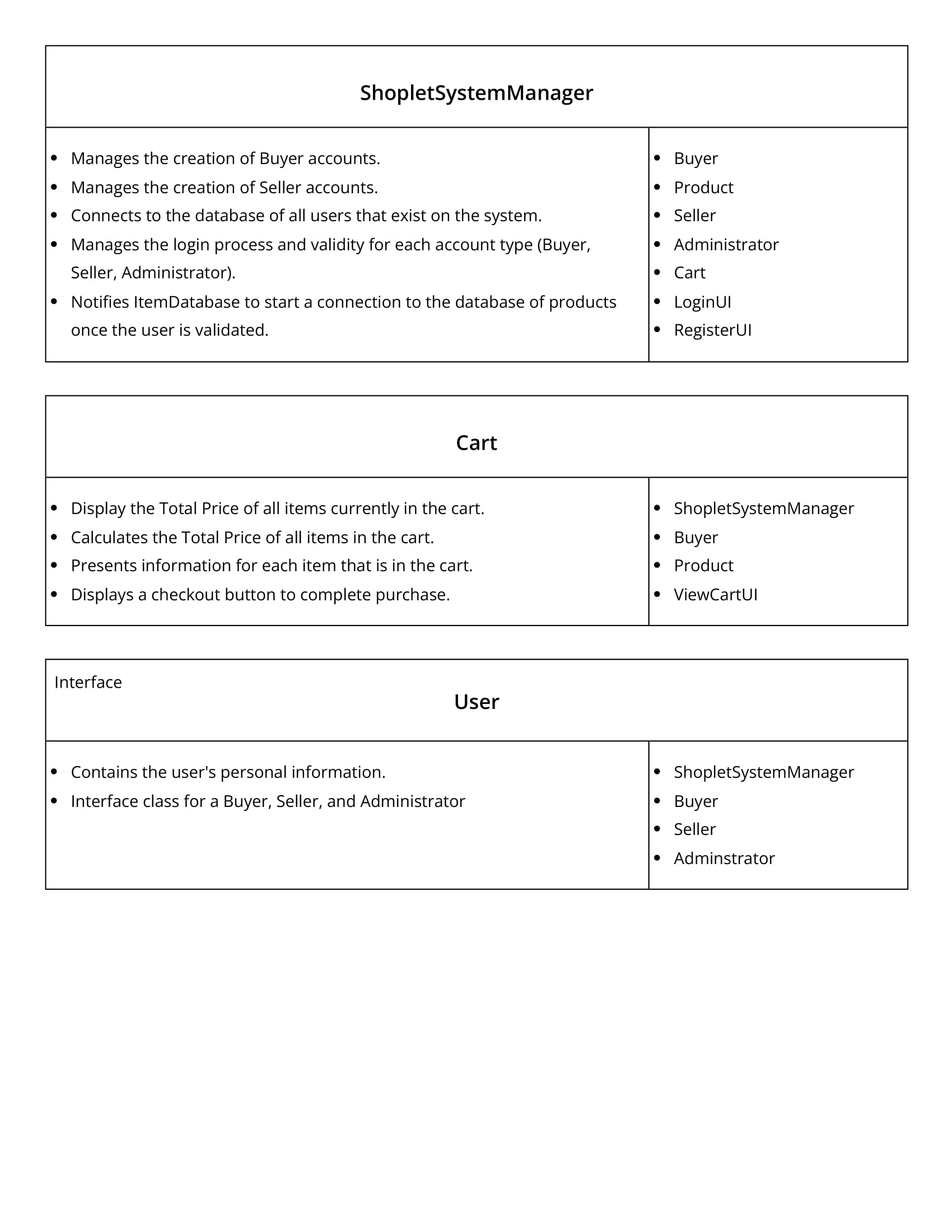
Edit Profile

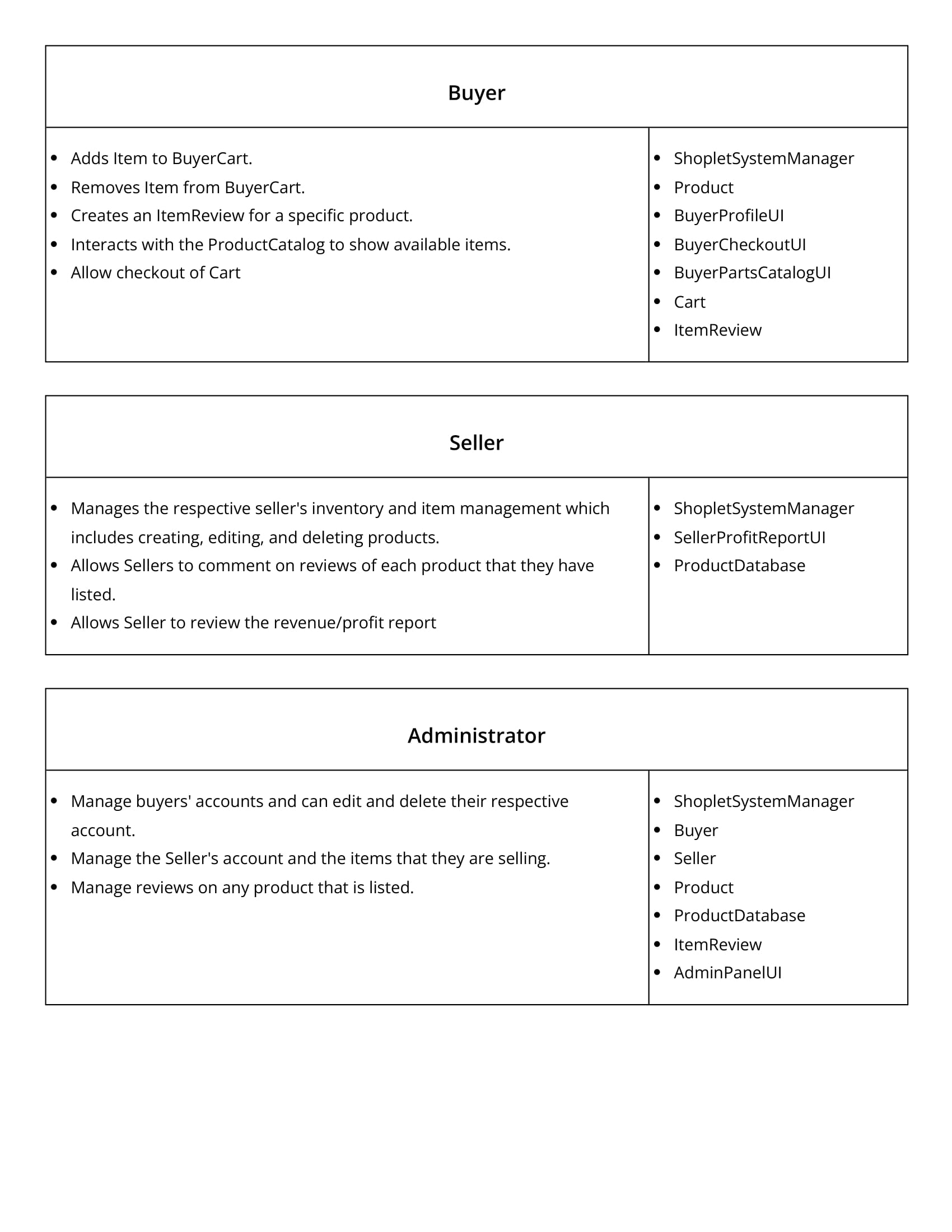
1. The respective user selects “Profile” button at the top of their portal
2. The user is prompted with a new window with their account information.
3. The user selects “Update Account” once any new details are changed.

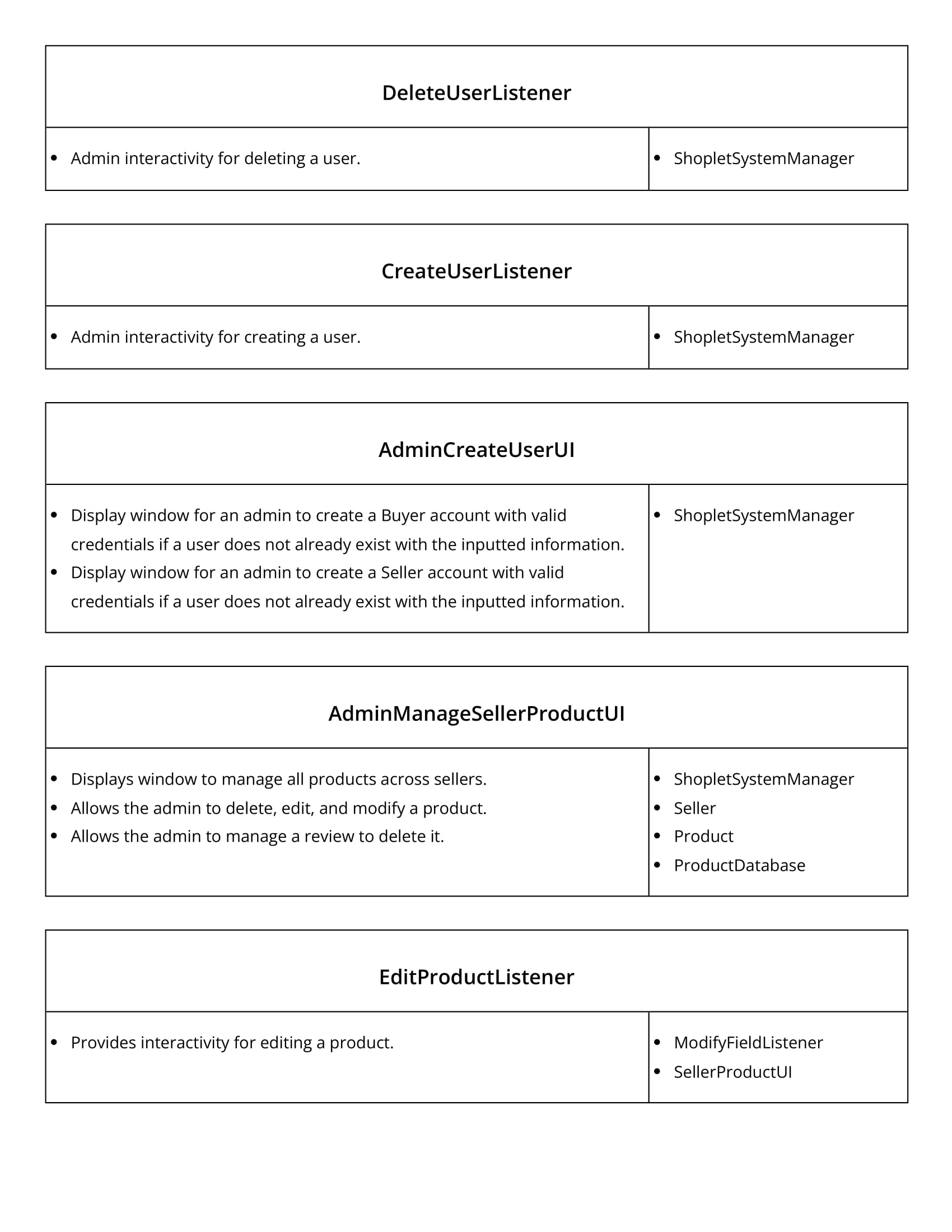
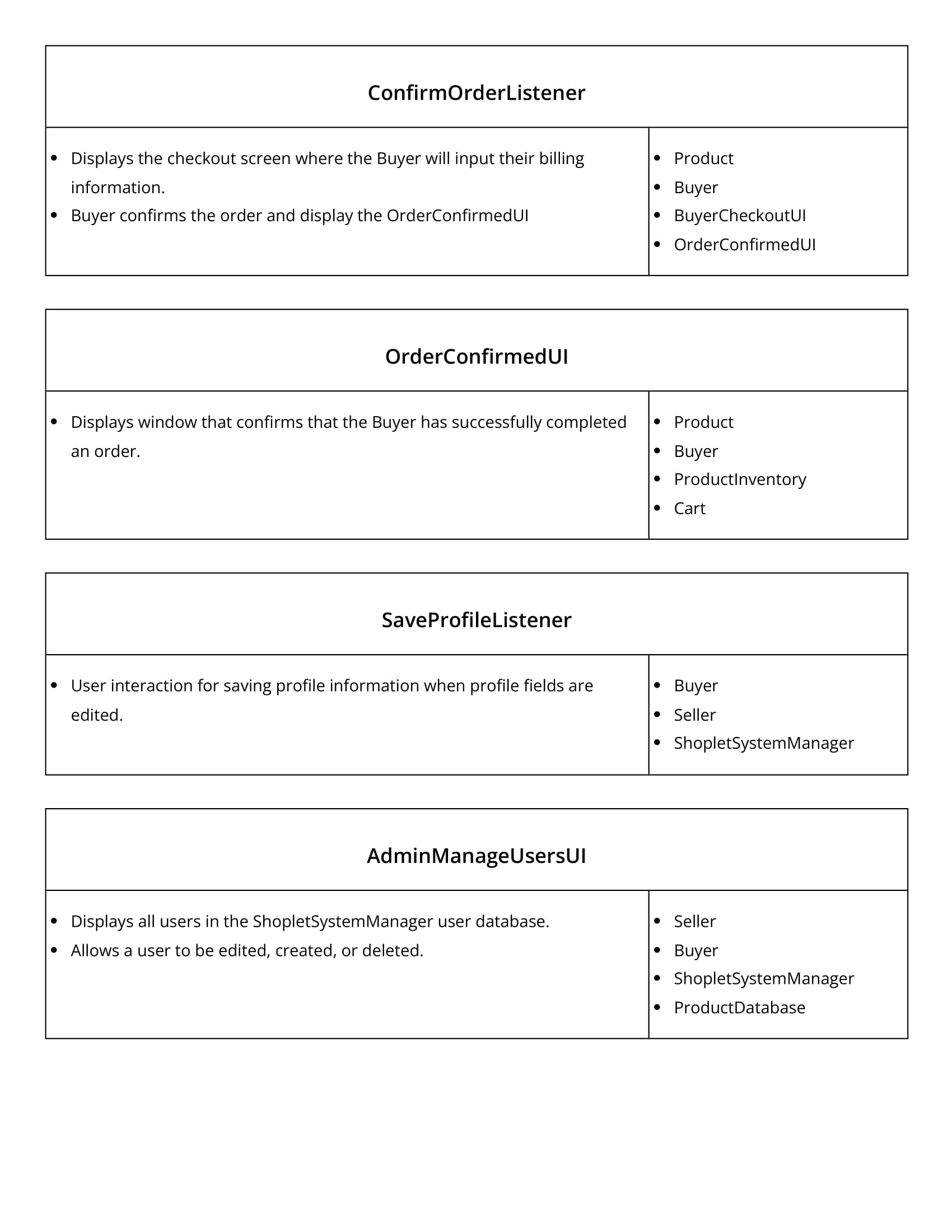
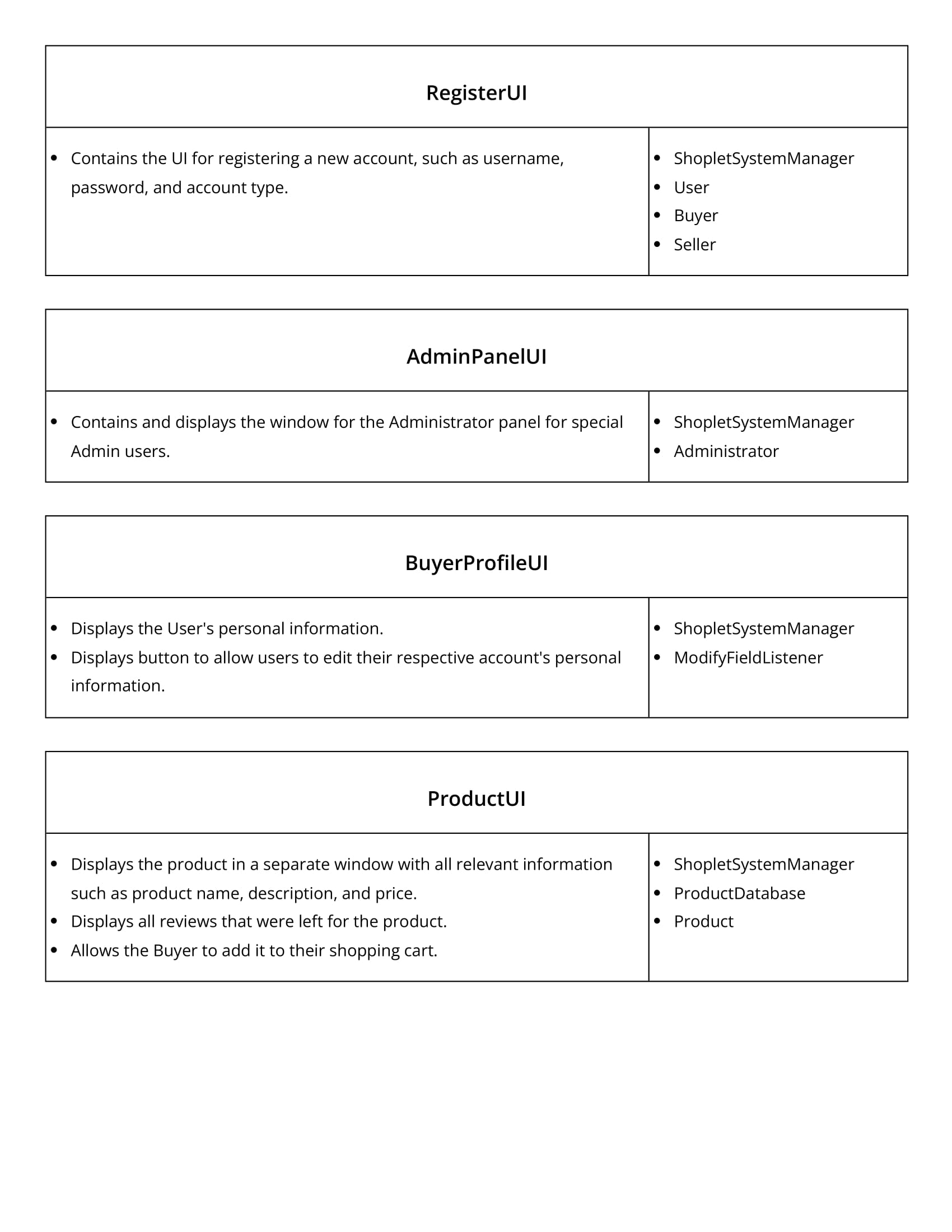
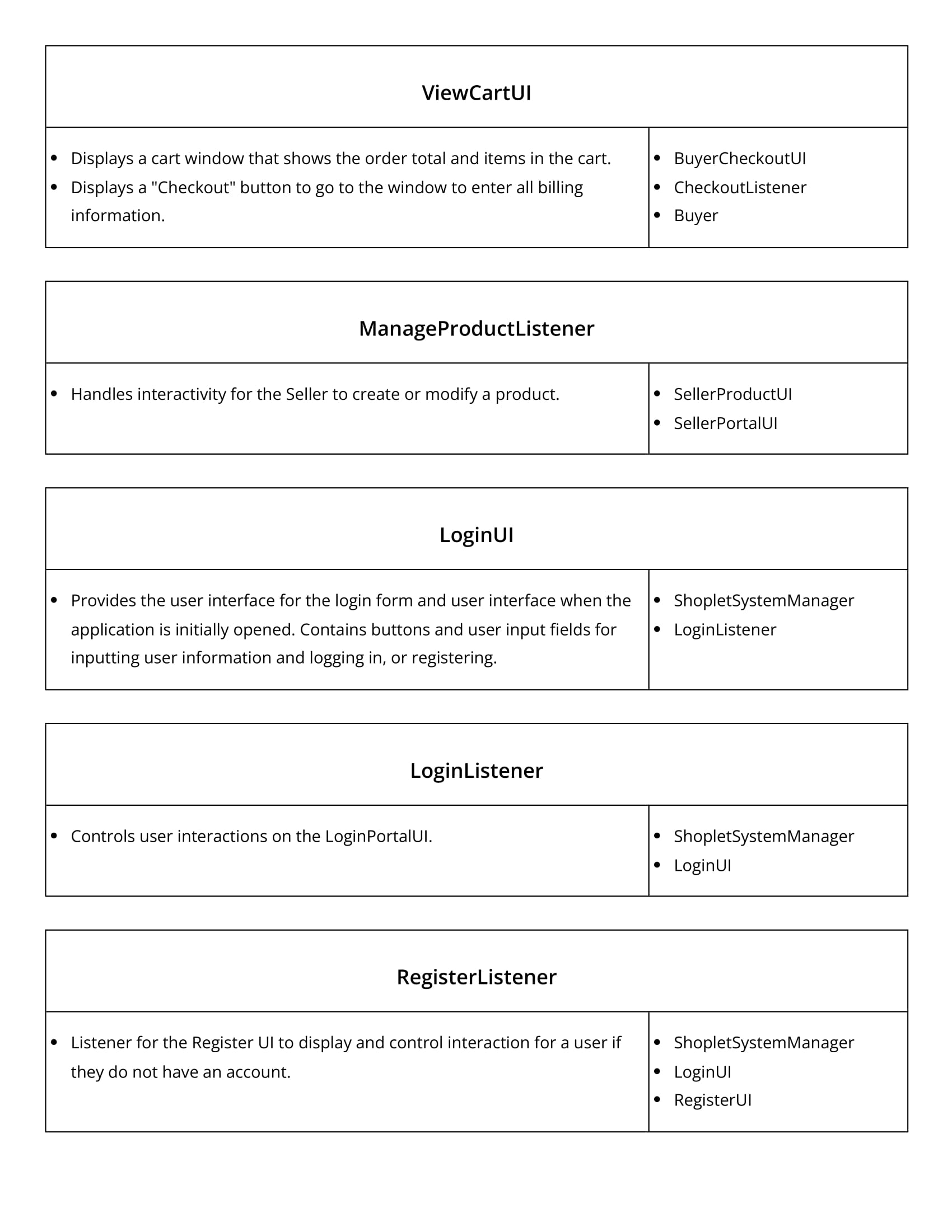
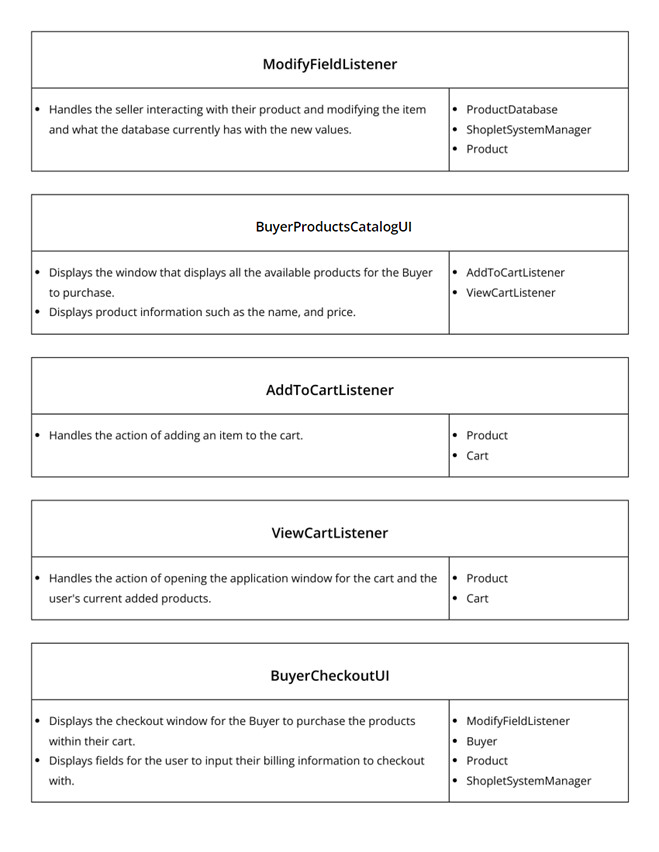
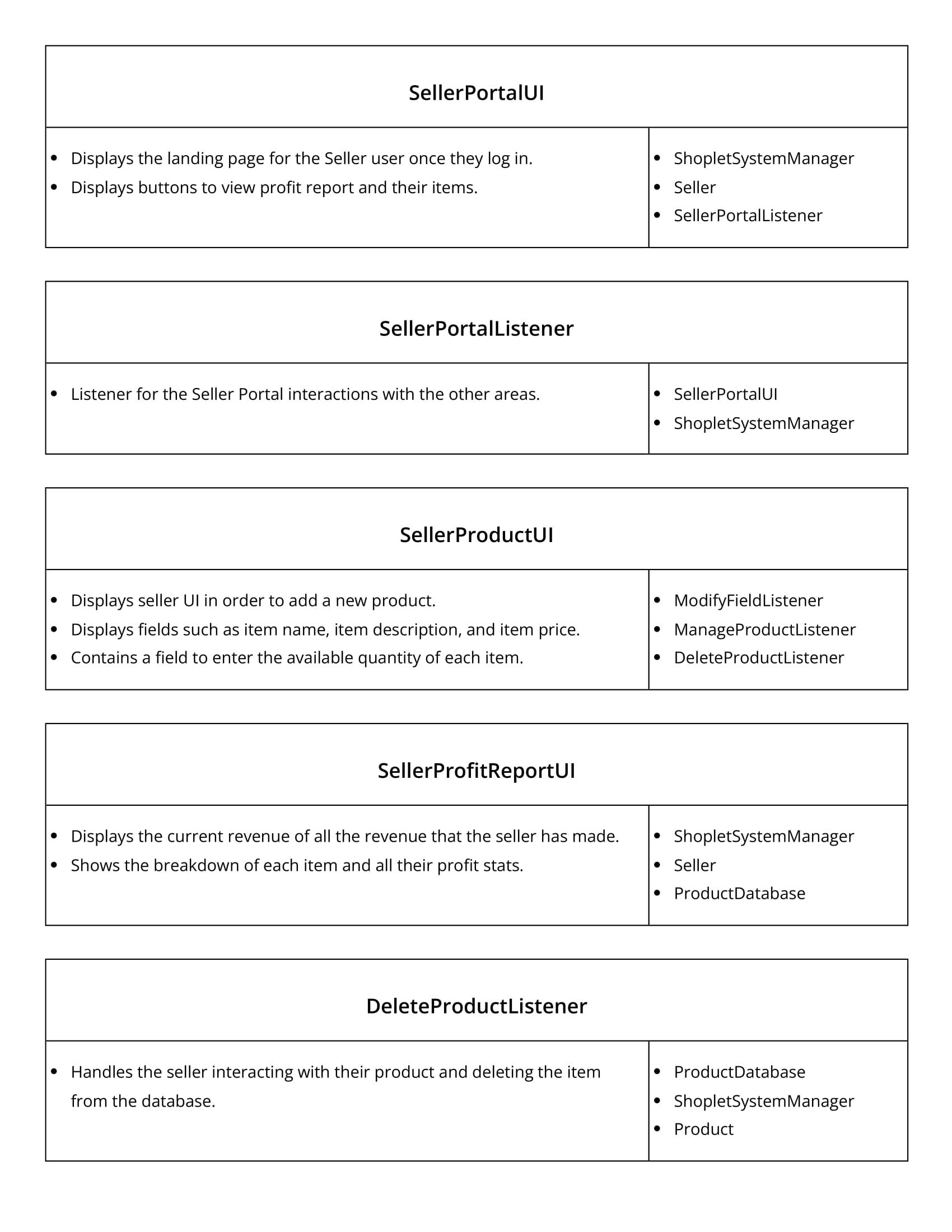
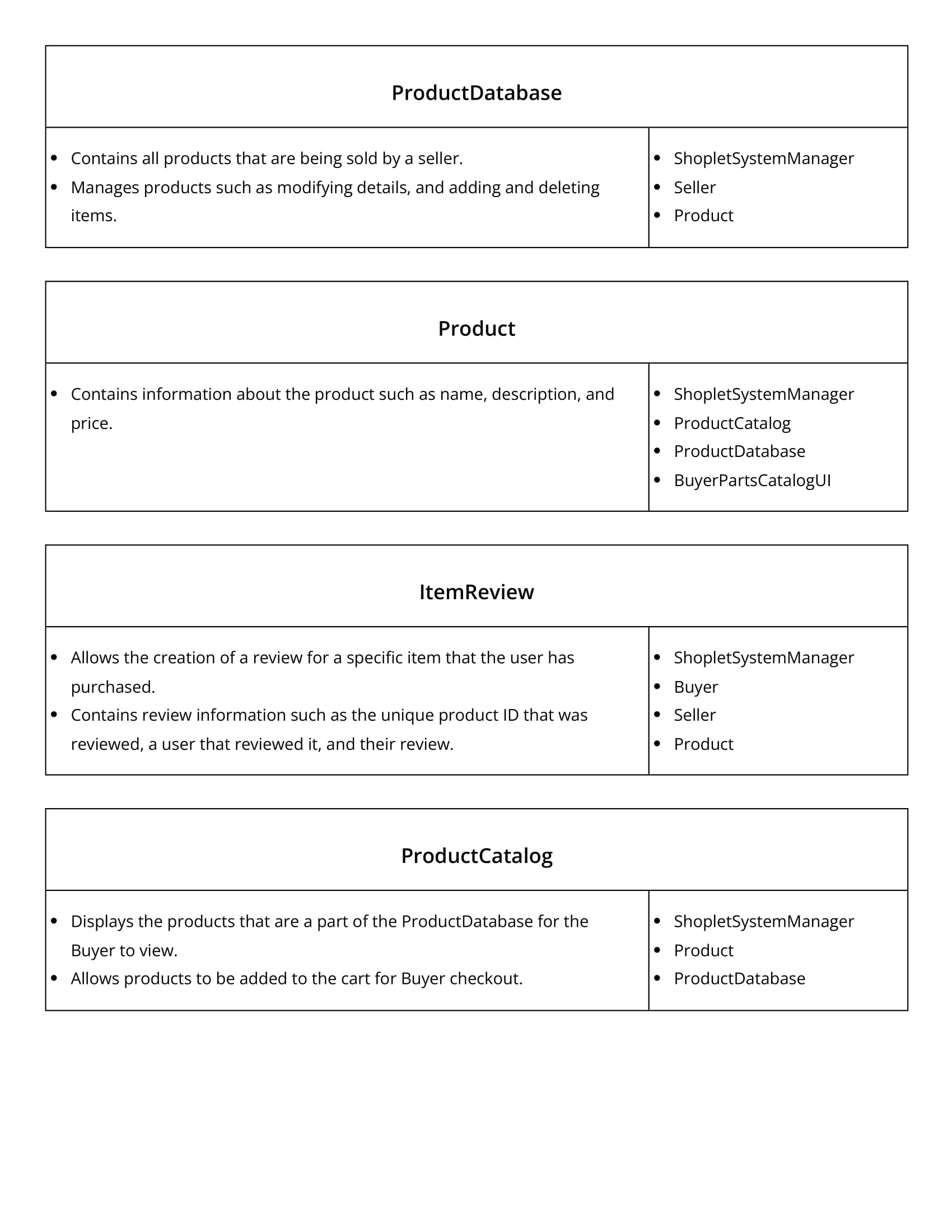
Graphical user interface, application

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# 6. CRC Cards







Text

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Graphical user interface, text, application, email

Description automatically generated

# 7. UML Class Diagrams

Shoplet General Class Diagram

Composite

Diagram

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Singleton

Singletonn

Login Diagram

Diagram

Description automatically generated

View and Edit Buyer Profile

Diagram

Description automatically generated

View Cart Diagram

Diagram, schematic

Description automatically generated

Buyer Catalog Diagram

Diagram

Description automatically generated

Buyer Checkout Diagram

Diagram, schematic

Description automatically generated

Create and Edit Products Diagram

A picture containing diagram

Description automatically generated

Product Diagram

Diagram, schematic

Description automatically generated

Register Diagram

Diagram

Description automatically generated

Seller Portal Diagram

Diagram

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Admin Panel Diagram

A picture containing diagram

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# 8. Sequence Diagrams

Login Sequence Diagram

Diagram

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Login Failed Sequence Diagram

Diagram

Description automatically generated

Register Sequence Diagram

Diagram

Description automatically generated

Register Failed – Existing User Diagram

Chart, box and whisker chart

Description automatically generated

Buyer Interactions Diagram

Graphical user interface, diagram

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Add To Cart Failure Diagram

Diagram

Description automatically generated

Review Product Diagram

Diagram

Description automatically generated

Seller Create Product Diagram

Timeline

Description automatically generated with medium confidence

Seller Edit Product Diagram

Diagram

Description automatically generated with low confidence

Seller Revenue Report Diagram

Chart, diagram, box and whisker chart

Description automatically generated

Admin approves Seller Diagram

Diagram

Description automatically generated

Admin denies Seller Diagram

Diagram

Description automatically generated

# 9. State Diagrams

Login State Diagram

Diagram

Description automatically generated

Register Buyer State Diagram

Diagram

Description automatically generated

Register Seller State Diagram

Diagram

Description automatically generated

Buyer Add to Cart State Diagram

Diagram

Description automatically generated

Buyer Review State Diagram

Diagram

Description automatically generated

Buyer Modify Cart State Diagram

Diagram

Description automatically generated

Buyer Checkout State Diagram

Diagram

Description automatically generated

Seller Modify Product State Diagram

Diagram

Description automatically generated

Seller Create Product State Diagram

Diagram

Description automatically generated

Seller Create Discount Code State Diagram

Diagram

Description automatically generated

Admin Create New User State Diagram

Diagram

Description automatically generated

Admin Delete User State Diagram

Diagram

Description automatically generated

Admin Approve/Deny Sellers State Diagram

Diagram

Description automatically generated

Admin Edit Product State Diagram

Diagram

Description automatically generated

Admin Cancels Order State Diagram

Diagram

Description automatically generated

Admin Deletes Review Diagram

Diagram

Description automatically generated

Seller Views Overall Profit Report State Diagram

Diagram

Description automatically generated

Seller Views Specific Product’s Profit Report State Diagram

Diagram

Description automatically generated

# Source Code

ShopletSystemManager.java

package datebase\_jon;  
  
import java.sql.Connection;  
import java.sql.DriverManager;   
import java.sql.SQLException;  
import java.util.List;  
import java.sql.PreparedStatement;  
import java.sql.ResultSet;  
import java.security.MessageDigest;  
import java.security.NoSuchAlgorithmException;  
import java.nio.charset.StandardCharsets;  
import java.util.ArrayList;  
import java.util.Arrays;  
  
public class ShopletSystemManager {  
  
 public Integer current\_user\_id;  
   
 private static ShopletSystemManager \_instance = null;  
   
 /\*\*  
 \* Retrieves the singleton instance of a Cart object.  
 \* @return The current user's cart.  
 \*/  
 public static synchronized ShopletSystemManager getInstance()  
 {  
 if (\_instance == null)  
 \_instance = new ShopletSystemManager();  
   
 return \_instance;  
 }  
  
 /\*\*  
 \* connect to existing database  
 \* @return connection object  
 \*/  
 private Connection connect() {  
 // SQLite connection string  
 String url = "jdbc:sqlite:sqlite.sqlite";  
 Connection conn = null;  
 try {  
 conn = DriverManager.getConnection(url);  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 }  
 return conn;  
 }  
  
  
 /\*\*  
 \* add a new user to the database  
 \* @param firstname first name of user   
 \* @param lastname last name of user   
 \* @param email email of user   
 \* @param password password of user   
 \* @param account\_type account\_type of user (seller, buyer, admin)  
 \* @param approval approval of user (this is for when a seller is approved or not)  
 \* @return a "success" response message  
 \*/  
 public String add\_user(String firstname, String lastname, String email, String password, String account\_type, Boolean approval) {  
  
 String sql = "INSERT INTO users(firstname, lastname, email, password, account\_type, approval) VALUES(?,?,?,?,?,?)";  
  
 try (Connection conn = this.connect();  
 PreparedStatement pstmt = conn.prepareStatement(sql)) {  
 pstmt.setString(1, firstname.toLowerCase());  
 pstmt.setString(2, lastname.toLowerCase());  
 pstmt.setString(3, email.toLowerCase());  
  
 try {  
 MessageDigest messageDigest = MessageDigest.getInstance("SHA-256");  
 messageDigest.update(password.getBytes(StandardCharsets.UTF\_8));  
 byte[] passwordHashBytes = messageDigest.digest();  
 String passwordHashString = "";  
   
 // Iterating through each byte in the array  
 for (byte i : passwordHashBytes) {  
 passwordHashString += String.format("%02X", i);  
 }  
 pstmt.setString(4, passwordHashString);  
 } catch (NoSuchAlgorithmException e){  
 System.out.println(e.getMessage());  
 }  
   
 pstmt.setString(5, account\_type.toLowerCase());  
 pstmt.setBoolean(6, approval);  
 pstmt.executeUpdate();  
  
 return "User has been added";  
  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 return "no database connection";  
 }  
 }  
   
 /\*\*  
 \* compare username and password to database  
 \* @param email email of the user  
 \* @param password password of the user  
 \* @return a user object with information  
 \*/  
 public User authenticate\_user(String email, String password){  
 User user = new User();  
 String sql = "SELECT \* FROM users WHERE email = ?";  
  
 try (Connection conn = this.connect();  
 PreparedStatement pstmt = conn.prepareStatement(sql)) {  
  
 pstmt.setString(1, email.toLowerCase());  
  
 ResultSet results = pstmt.executeQuery();  
   
  
 try {  
 MessageDigest messageDigest = MessageDigest.getInstance("SHA-256");  
 messageDigest.update(password.getBytes(StandardCharsets.UTF\_8));  
 byte[] passwordHashBytes = messageDigest.digest();  
 String passwordHashString = "";  
   
 // Iterating through each byte in the array  
 for (byte i : passwordHashBytes) {  
 passwordHashString += String.format("%02X", i);  
 }  
  
 if (passwordHashString.equals(results.getString("password"))){  
 System.out.println("User account found");  
 user.user\_id = results.getInt("user\_id");  
 user.firstname = results.getString("firstname");  
 user.lastname = results.getString("lastname");  
 user.email = results.getString("email");  
 user.account\_type = results.getString("account\_type");  
 user.approval = results.getBoolean("approval");  
 user.authenticated = true;  
 current\_user\_id = user.user\_id;  
 return user;  
 } else {  
 System.out.println("User not found, possible incorrect username or password");  
 user.authenticated = false;  
 return user;  
 }  
  
 } catch (NoSuchAlgorithmException e){  
 System.out.println(e.getMessage());  
 user.authenticated = false;  
 return user;  
 }  
  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 user.authenticated = false;  
 return user;  
 }  
 }  
   
 /\*\*  
 \* get a list of approved or unapproved sellers  
 \* @param approved boolean of whether the sellers are approved or not  
 \* @return list of user objects  
 \*/  
 public List<User> grab\_sellers(Boolean approved){  
 String sql = "SELECT \* FROM users WHERE approval = ?";  
   
 List<User> sellerList = new ArrayList<User>();  
  
 try (Connection conn = this.connect();  
 PreparedStatement pstmt = conn.prepareStatement(sql)) {  
  
 if (approved) {  
 pstmt.setString(1, "1");  
 } else {  
 pstmt.setString(1, "0");  
 }  
 ResultSet results = pstmt.executeQuery();  
  
 while(results.next()) {  
 User user = new User();  
 user.user\_id = results.getInt("user\_id");  
 user.firstname = results.getString("firstname");  
 user.lastname = results.getString("lastname");  
 user.email = results.getString("email");  
 user.account\_type = results.getString("account\_type");  
 user.approval = results.getBoolean("approval");  
 sellerList.add(user);  
 }  
  
 return sellerList;  
  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 return sellerList;  
 }  
 }  
  
 /\*\*  
 \* edit an existing user's information  
 \* @param user\_id user's id as it is in the database  
 \* @param firstname first name of user  
 \* @param lastname last name of user  
 \* @param email email of user  
 \* @param password password of user  
 \* @param account\_type account\_type of user (seller, buyer, admin)  
 \* @param approval approval of user (this is for when a seller is approved or not)  
 \* @return a user object with current users updated information  
 \*/  
 public User edit\_user(Integer user\_id, String firstname, String lastname, String email, String password, String account\_type, Boolean approval){  
   
 User user = new User();  
  
 String query1 = "SELECT user\_id FROM users WHERE user\_id = ?";  
 try (Connection connQuery1 = this.connect(); PreparedStatement pstmt1 = connQuery1.prepareStatement(query1)) {  
 pstmt1.setInt(1, user\_id);  
 ResultSet results1 = pstmt1.executeQuery();  
 if (results1.next() == false) {  
 System.out.println("User does not exist");  
 return user;  
 }  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 }  
  
 if (firstname != null){  
 String query2 = "UPDATE users SET firstname = ? WHERE user\_id = ?";  
 try (Connection connQuery2 = this.connect(); PreparedStatement pstmt2 = connQuery2.prepareStatement(query2)){  
 pstmt2.setString(1, firstname);  
 pstmt2.setInt(2, user\_id);  
 pstmt2.executeUpdate();  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 }  
 }  
  
 if (lastname != null){  
 String query3 = "UPDATE users SET lastname = ? WHERE user\_id = ?";  
 try (Connection connQuery3 = this.connect(); PreparedStatement pstmt3 = connQuery3.prepareStatement(query3)){  
 pstmt3.setString(1, lastname);  
 pstmt3.setInt(2, user\_id);  
 pstmt3.executeUpdate();  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 }  
 }  
  
 if (email != null){  
 String query4 = "UPDATE users SET email = ? WHERE user\_id = ?";  
 try (Connection connQuery4 = this.connect(); PreparedStatement pstmt4 = connQuery4.prepareStatement(query4)){  
 pstmt4.setString(1, email);  
 pstmt4.setInt(2, user\_id);  
 pstmt4.executeUpdate();  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 }  
 }  
  
 if (password != null){  
 String passwordHashString = "";  
 try {  
 MessageDigest messageDigest = MessageDigest.getInstance("SHA-256");  
 messageDigest.update(password.getBytes(StandardCharsets.UTF\_8));  
 byte[] passwordHashBytes = messageDigest.digest();  
   
 // Iterating through each byte in the array  
 for (byte i : passwordHashBytes) {  
 passwordHashString += String.format("%02X", i);  
 }  
 } catch (NoSuchAlgorithmException e){  
 System.out.println(e.getMessage());  
 }  
  
 String query5 = "UPDATE users SET password = ? WHERE user\_id = ?";  
 try (Connection connQuery5 = this.connect(); PreparedStatement pstmt5 = connQuery5.prepareStatement(query5)){  
 pstmt5.setString(1, passwordHashString);  
 pstmt5.setInt(2, user\_id);  
 pstmt5.executeUpdate();  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 }  
 }  
  
 if (account\_type != null){  
 String query6 = "UPDATE users SET account\_type = ? WHERE user\_id = ?";  
 try (Connection connQuery6 = this.connect(); PreparedStatement pstmt6 = connQuery6.prepareStatement(query6)){  
 pstmt6.setString(1, account\_type);  
 pstmt6.setInt(2, user\_id);  
 pstmt6.executeUpdate();  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 }  
 }  
  
 if (approval != null){  
 String query7 = "UPDATE users SET approval = ? WHERE user\_id = ?";  
 try (Connection connQuery7 = this.connect(); PreparedStatement pstmt7 = connQuery7.prepareStatement(query7)){  
 pstmt7.setBoolean(1, approval);  
 pstmt7.setInt(2, user\_id);  
 pstmt7.executeUpdate();  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 }  
 }  
  
 String queryFinal = "SELECT \* FROM users WHERE user\_id = ?";  
 try (Connection connQueryFinal = this.connect(); PreparedStatement pstmt1 = connQueryFinal.prepareStatement(queryFinal)) {  
 pstmt1.setInt(1, user\_id);  
 ResultSet resultsFinal = pstmt1.executeQuery();  
  
   
 user.user\_id = resultsFinal.getInt("user\_id");  
 user.firstname = resultsFinal.getString("firstname");  
 user.lastname = resultsFinal.getString("lastname");  
 user.email = resultsFinal.getString("email");  
 user.account\_type = resultsFinal.getString("account\_type");  
 user.approval = resultsFinal.getBoolean("approval");  
  
 return user;  
   
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 return user;  
 }  
 }  
  
 /\*\*  
 \* remove a product from the database  
 \* @param product\_id id of the product as it is in the database   
 \* @return a "success" response message  
 \*/  
 public String delete\_user(Integer user\_id){  
  
 String query1 = "SELECT user\_id FROM users WHERE user\_id = ?";  
 try (Connection connQuery1 = this.connect(); PreparedStatement pstmt1 = connQuery1.prepareStatement(query1)) {  
 pstmt1.setInt(1, user\_id);  
 ResultSet results1 = pstmt1.executeQuery();  
 if (results1.next() == false) {  
 System.out.println("User does not exist");  
 return "User does not exist";  
 }  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 }  
  
 String sql = "DELETE FROM users WHERE user\_id = ?";  
 try (Connection conn = this.connect();  
 PreparedStatement pstmt = conn.prepareStatement(sql)) {  
 pstmt.setInt(1, user\_id);  
 pstmt.executeUpdate();  
 System.out.println("User has been deleted");  
 return "User has been deleted";  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 return "No db connection";  
 }  
 }  
   
 /\*\*  
 \* get a user from the database  
 \* @param user\_id user's id as it is in the database  
 \* @return a user object with information  
 \*/  
 public User grab\_user\_info(Integer user\_id){  
 String sql = "SELECT \* FROM users WHERE user\_id = ?";  
 User user = new User();  
  
 try (Connection conn = this.connect();  
 PreparedStatement pstmt = conn.prepareStatement(sql)) {  
  
 pstmt.setInt(1, user\_id);  
  
 ResultSet results = pstmt.executeQuery();  
  
 user.user\_id = results.getInt("user\_id");  
 user.firstname = results.getString("firstname");  
 user.lastname = results.getString("lastname");  
 user.email = results.getString("email");  
 user.account\_type = results.getString("account\_type");  
 user.approval = results.getBoolean("approval");  
  
 System.out.println(results.getInt("user\_id") + " " + results.getString("firstname") + " " + results.getString("lastname") + " " + results.getString("email") + " " + results.getString("account\_type") + " " + results.getString("approval"));  
 return user;  
  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 return user;  
 }  
 }  
  
 /\*\*  
 \* add a new product to the database  
 \* @param name name of product  
 \* @param description description of product  
 \* @param price price of product  
 \* @param amount\_sold amount\_sold of product  
 \* @param user\_id user id of seller as it is in database  
 \* @return a product object with information  
 \*/  
 public Product add\_product(String name, String description, Integer price, Integer amount\_sold, Integer user\_id){  
 String sql = "INSERT INTO products(name, description, price, amount\_sold, seller\_id) VALUES(?,?,?,?,?)";  
 Product product = new Product();  
  
 try (Connection conn = this.connect(); PreparedStatement pstmt = conn.prepareStatement(sql)) {  
 pstmt.setString(1, name);  
 pstmt.setString(2, description);  
 pstmt.setInt(3, price);  
 pstmt.setInt(4, amount\_sold);  
 pstmt.setInt(5, user\_id);  
 pstmt.executeUpdate();  
  
 String sql2 = "SELECT MAX(product\_id) AS product\_id FROM products";  
 try (Connection conn2 = this.connect(); PreparedStatement pstmt2 = conn2.prepareStatement(sql2)) {  
 ResultSet results = pstmt2.executeQuery();  
  
  
 product.product\_id = results.getInt("product\_id");  
  
 String sql3 = "SELECT \* FROM products WHERE product\_id = ?";  
 try (Connection conn3 = this.connect(); PreparedStatement pstmt3 = conn3.prepareStatement(sql3)) {  
 pstmt3.setInt(1, product.product\_id);  
 ResultSet results3 = pstmt3.executeQuery();  
  
 product.name = results3.getString("name");  
 product.description = results3.getString("description");  
 product.price = results3.getInt("price");  
 product.amount\_sold = results3.getInt("amount\_sold");  
 product.seller\_id = results3.getInt("seller\_id");  
 return product;  
 }  
  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 return product;  
 }  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 return product;  
 }  
 }  
   
 /\*\*  
 \* add a review to the database  
 \* @param user\_id user\_id of author as it is in the database  
 \* @param product\_id product\_id if the product as it is in the database  
 \* @param review\_name name of review  
 \* @param review\_rating rating of review  
 \* @param review\_content content of review  
 \* @return a review object with information  
 \*/  
 public Review add\_review(Integer user\_id, Integer product\_id, String review\_name, String review\_rating, String review\_content){  
 String sql = "INSERT INTO reviews(product\_id, review\_rating, review\_content, review\_author\_name, review\_author\_id) VALUES(?,?,?,?,?)";  
 Review review = new Review();  
  
 try (Connection conn = this.connect(); PreparedStatement pstmt = conn.prepareStatement(sql)) {  
 pstmt.setInt(1, product\_id);  
 pstmt.setString(2, review\_rating);  
 pstmt.setString(3, review\_content);  
 pstmt.setString(4, review\_name);  
 pstmt.setInt(5, user\_id);  
 pstmt.executeUpdate();  
  
 String sql2 = "SELECT MAX(review\_id) AS review\_id FROM reviews";  
 try (Connection conn2 = this.connect(); PreparedStatement pstmt2 = conn2.prepareStatement(sql2)) {  
 ResultSet results = pstmt2.executeQuery();  
  
 review.review\_id = results.getInt("review\_id");  
  
 String sql3 = "SELECT \* FROM reviews WHERE review\_id = ?";  
 try (Connection conn3 = this.connect(); PreparedStatement pstmt3 = conn3.prepareStatement(sql3)) {  
 pstmt3.setInt(1, review.review\_id);  
 ResultSet results3 = pstmt3.executeQuery();  
  
 review.product\_id = results3.getInt("product\_id");  
 review.review\_rating = results3.getString("review\_rating");  
 review.review\_content = results3.getString("review\_content");  
 review.reviewer\_name = results3.getString("review\_author\_name");  
 review.user\_id = results3.getInt("review\_author\_id");  
 return review;  
 }  
  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 return review;  
 }  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 return review;  
 }  
 }  
   
 /\*\*  
 \* Grabs a list of the reviews from a product id  
 \* @param product\_id the id of the product  
 \* @return a list of review objects  
 \*/  
 public List<Review> grab\_reviews(Integer product\_id){  
 String sql = "SELECT \* FROM reviews WHERE product\_id = ?";  
   
 List<Review> reviewList = new ArrayList<Review>();  
  
 try (Connection conn = this.connect();  
 PreparedStatement pstmt = conn.prepareStatement(sql)) {  
  
 pstmt.setInt(1, product\_id);  
  
 ResultSet results = pstmt.executeQuery();  
  
 while(results.next()) {  
 Review review = new Review();  
 review.user\_id = results.getInt("review\_author\_id");  
 review.product\_id = results.getInt("product\_id");  
 review.review\_content = results.getString("review\_content");  
 review.review\_rating = results.getString("review\_rating");  
 review.reviewer\_name = results.getString("review\_author\_name");  
 review.review\_id = results.getInt("review\_id");  
 reviewList.add(review);  
 }  
 return reviewList;  
  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 return reviewList;  
 }  
 }  
   
 /\*\*  
 \* add a order to the database  
 \* @param buyer\_id user\_id of buyer as it is in the database  
 \* @param total\_cost total\_cost of order  
 \* @param product\_ids product\_ids of products in order  
 \* @return an order object with information  
 \*/  
 public Order add\_order(Integer buyer\_id, String total\_cost, String product\_ids){  
 String sql = "INSERT INTO orders(buyer\_id, total\_cost, product\_ids) VALUES(?,?, ?)";  
 Order order = new Order();  
  
 try (Connection conn = this.connect(); PreparedStatement pstmt = conn.prepareStatement(sql)) {  
 pstmt.setInt(1, buyer\_id);  
 pstmt.setString(2, total\_cost);  
 pstmt.setString(3, product\_ids);  
 pstmt.executeUpdate();  
  
 String sql2 = "SELECT MAX(order\_id) AS order\_id FROM orders";  
 try (Connection conn2 = this.connect(); PreparedStatement pstmt2 = conn2.prepareStatement(sql2)) {  
 ResultSet results = pstmt2.executeQuery();  
  
  
 order.order\_id = results.getInt("order\_id");  
  
 String sql3 = "SELECT \* FROM orders WHERE order\_id = ?";  
 try (Connection conn3 = this.connect(); PreparedStatement pstmt3 = conn3.prepareStatement(sql3)) {  
 pstmt3.setInt(1, order.order\_id);  
 ResultSet results3 = pstmt3.executeQuery();  
  
 order.buyer\_id = results3.getInt("buyer\_id");  
 order.total\_cost = results3.getString("total\_cost");  
 order.product\_ids = results3.getString("product\_ids");  
 return order;  
 }  
  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 return order;  
 }  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 return order;  
 }  
 }  
   
 /\*\*  
 \* edit an existing product's information  
 \* @param product\_id product\_id of the product as it is in the database   
 \* @param name name of product  
 \* @param description description of product  
 \* @param price price of product  
 \* @param amount\_sold amount\_sold of product  
 \* @return a "success" response message  
 \*/  
 public String edit\_product(Integer product\_id, String name, String description, Integer price, Integer amount\_sold){  
 String query1 = "SELECT product\_id FROM products WHERE product\_id = ?";  
 try (Connection connQuery1 = this.connect(); PreparedStatement pstmt1 = connQuery1.prepareStatement(query1)) {  
 pstmt1.setInt(1, product\_id);  
 ResultSet results1 = pstmt1.executeQuery();  
 if (results1.next() == false) {  
 System.out.println("Product does not exist");  
 return "Product does not exist";  
 }  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 }  
  
 if (name != null){  
 String query2 = "UPDATE products SET name = ? WHERE product\_id = ?";  
 try (Connection connQuery2 = this.connect(); PreparedStatement pstmt2 = connQuery2.prepareStatement(query2)){  
 pstmt2.setString(1, name);  
 pstmt2.setInt(2, product\_id);  
 pstmt2.executeUpdate();  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 }  
 }  
  
 if (description != null){  
 String query3 = "UPDATE products SET description = ? WHERE product\_id = ?";  
 try (Connection connQuery3 = this.connect(); PreparedStatement pstmt3 = connQuery3.prepareStatement(query3)){  
 pstmt3.setString(1, description);  
 pstmt3.setInt(2, product\_id);  
 pstmt3.executeUpdate();  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 }  
 }  
  
 if (price != null){  
 String query3 = "UPDATE products SET price = ? WHERE product\_id = ?";  
 try (Connection connQuery3 = this.connect(); PreparedStatement pstmt3 = connQuery3.prepareStatement(query3)){  
 pstmt3.setInt(1, price);  
 pstmt3.setInt(2, product\_id);  
 pstmt3.executeUpdate();  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 }  
 }  
  
 if (amount\_sold != null){  
 String query4 = "UPDATE products SET amount\_sold = ? WHERE product\_id = ?";  
 try (Connection connQuery4 = this.connect(); PreparedStatement pstmt4 = connQuery4.prepareStatement(query4)){  
 pstmt4.setInt(1, amount\_sold);  
 pstmt4.setInt(2, product\_id);  
 pstmt4.executeUpdate();  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 }  
 }  
  
 return "Item has been updated";  
 }  
  
 /\*\*  
 \* add the amount of sells a product has  
 \* @param product\_id product\_id of the product as it is in the database   
 \* @param amount quantity of product sold  
 \* @return a "success" response message  
 \*/  
 public String add\_product\_sale(Integer product\_id, Integer amount){  
  
 Integer ogAmount = 0;  
 String query1 = "SELECT amount\_sold FROM products WHERE product\_id = ?";  
 try (Connection connQuery1 = this.connect(); PreparedStatement pstmt1 = connQuery1.prepareStatement(query1)) {  
 pstmt1.setInt(1, product\_id);  
 ResultSet results1 = pstmt1.executeQuery();  
 if (results1.next() == false) {  
 System.out.println("Product does not exist");  
 return "Product does not exist";  
 } else {  
 ogAmount = results1.getInt("amount\_sold");  
 }  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 }  
  
 String sql = "UPDATE products SET amount\_sold = ? WHERE product\_id = ?";  
 try (Connection conn = this.connect(); PreparedStatement pstmt = conn.prepareStatement(sql)){  
 pstmt.setInt(1, ogAmount + amount);  
 pstmt.setInt(2, product\_id);  
 pstmt.executeUpdate();  
 return "Count updated!";  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 return "Count updated!";  
 }  
 }  
  
 /\*\*  
 \* remove a product from the database  
 \* @param product\_id product\_id of the product as it is in the database   
 \* @return a "success" response message  
 \*/  
 public String delete\_product(Integer product\_id){  
 String query1 = "SELECT product\_id FROM products WHERE product\_id = ?";  
 try (Connection connQuery1 = this.connect(); PreparedStatement pstmt1 = connQuery1.prepareStatement(query1)) {  
 pstmt1.setInt(1, product\_id);  
 ResultSet results1 = pstmt1.executeQuery();  
 if (results1.next() == false) {  
 System.out.println("Product does not exist");  
 return "Product does not exist";  
 }  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 }  
  
 String sql = "DELETE FROM products WHERE product\_id = ?";  
 try (Connection conn = this.connect();  
 PreparedStatement pstmt = conn.prepareStatement(sql)) {  
 pstmt.setInt(1, product\_id);  
 pstmt.executeUpdate();  
 System.out.println("Product has been deleted");  
 return "Product has been deleted";  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 return "No db connection";  
 }  
 }  
   
 /\*\*  
 \* get all orders in the database  
 \* @return list of order objects  
 \*/  
 public List<Order> get\_all\_orders(){  
 List<Order> order\_list = new ArrayList<Order>();  
 String sql = "SELECT \* FROM orders";  
 try (Connection conn = this.connect();  
 PreparedStatement pstmt = conn.prepareStatement(sql)) {  
 ResultSet results = pstmt.executeQuery();  
  
 while(results.next()){  
 Order order = new Order();  
 order.order\_id = results.getInt("order\_id");  
 order.buyer\_id = results.getInt("buyer\_id");  
 order.total\_cost = results.getString("total\_cost");  
 order.product\_ids = results.getString("product\_ids");   
 order\_list.add(order);  
 }  
  
 return order\_list;  
   
   
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 return order\_list;  
 }  
 }  
   
 /\*\*  
 \* remove a order from the database  
 \* @param order\_id product\_id of the product as it is in the database   
 \* @return a "success" response message  
 \*/  
 public String delete\_order(Integer order\_id){  
 String query1 = "SELECT order\_id FROM orders WHERE order\_id = ?";  
 try (Connection connQuery1 = this.connect(); PreparedStatement pstmt1 = connQuery1.prepareStatement(query1)) {  
 pstmt1.setInt(1, order\_id);  
 ResultSet results1 = pstmt1.executeQuery();  
 if (results1.next() == false) {  
 System.out.println("Order does not exist");  
 return "Order does not exist";  
 }  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 }  
  
 String sql = "DELETE FROM orders WHERE order\_id = ?";  
 try (Connection conn = this.connect();  
 PreparedStatement pstmt = conn.prepareStatement(sql)) {  
 pstmt.setInt(1, order\_id);  
 pstmt.executeUpdate();  
 System.out.println("Order has been deleted");  
 return "Order has been deleted";  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 return "No db connection";  
 }  
 }  
  
 /\*\*  
 \* get all products in the database  
 \* @return list of product objects  
 \*/  
 public List<Product> get\_list\_of\_products(){  
 List<Product> product\_list = new ArrayList<Product>();  
 String sql = "SELECT \* FROM products";  
 try (Connection conn = this.connect();  
 PreparedStatement pstmt = conn.prepareStatement(sql)) {  
 ResultSet results = pstmt.executeQuery();  
  
 while(results.next()){  
 Product product = new Product();  
 product.product\_id = results.getInt("product\_id");  
 product.name = results.getString("name");  
 product.description = results.getString("description");  
 product.price = results.getInt("price");  
 product.amount\_sold = results.getInt("amount\_sold");  
 product.seller\_id = results.getInt("seller\_id");  
 product\_list.add(product);  
 }  
  
 return product\_list;  
  
   
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 return product\_list;  
 }  
 }  
   
 /\*\*  
 \* get current user's products in the database  
 \* @return list of product objects  
 \*/  
 public List<Product> get\_list\_of\_own\_products(Integer user\_id){  
 List<Product> product\_list = new ArrayList<Product>();  
 String sql = "SELECT \* FROM products WHERE seller\_id = ?";  
 try (Connection conn = this.connect();  
 PreparedStatement pstmt = conn.prepareStatement(sql)) {  
 pstmt.setInt(1, user\_id);  
 ResultSet results = pstmt.executeQuery();  
  
 while(results.next()){  
 Product product = new Product();  
 product.product\_id = results.getInt("product\_id");  
 product.name = results.getString("name");  
 product.description = results.getString("description");  
 product.price = results.getInt("price");  
 product.amount\_sold = results.getInt("amount\_sold");  
 product.seller\_id = results.getInt("seller\_id");  
 product\_list.add(product);  
 }  
  
 return product\_list;  
  
  
 } catch (SQLException e) {  
 System.out.println(e.getMessage());  
 return product\_list;  
 }  
 }  
   
 /\*\*  
 \* Main function  
 \* @param args arguments  
 \* @throws Exception exception  
 \*/  
 public static void main(String[] args) throws Exception {  
 ShopletSystemManager db = new ShopletSystemManager();  
 // add user  
 // refer to method to see arguments. All must be filled out or else error will raise.  
 //db.add\_user("jon", "mercer", "test@email.com", "password", "buyer", true);  
  
 // authenticate\_user  
 // must use given email and password as arguments  
   
 //User user = db.authenticate\_user("test@email.com", "passwordd");  
 // System.out.println(user.user\_id);  
 // System.out.println(user.firstname);  
 // System.out.println(user.lastname);  
 // System.out.println(user.email);  
 // System.out.println(user.account\_type);  
 // System.out.println(user.approval);  
  
  
  
 // grab\_user\_info  
 // give user id and all information will be printed to console  
 //db.grab\_user\_info(1);  
  
 // edit\_user  
 // refer to method to see arguments. All must be filled out but if there is an attribute you dont want to change you can set the arugment to null.  
 //db.edit\_user(1, "jon\_edit", "mercer\_edit" , "test-edit@email.com", "password1", "seller", false);  
  
 // delete\_user  
 // give a user id and the user will be deleted from the database  
 //db.delete\_user(1);  
  
 // add product  
 // refer to method to see arguments. All must be filled out or else error will raise.  
 // db.add\_product("product", "This is the description", 0, 0, 2);  
 // db.add\_product("product1", "This is the description1", 1, 1, 1);  
 // db.add\_product("product2", "This is the description2", 2, 2, 1);  
 // db.add\_product("product3", "This is the description3", 3, 3, 1);  
 // db.add\_product("product4", "This is the description4", 4, 4, 1);  
  
 // edit\_product  
 // refer to method to see arguments. All must be filled out but if there is an attribute you dont want to change you can set the arugment to null.  
 //db.edit\_product(1, "product-edit", null , 999, 99);  
  
 // add\_product\_sale  
 // give a product id, and amount sold and the amount\_sold will increment by the argument  
 //db.add\_product\_sale(1, 7);  
  
 // delete\_product  
 // give a product id and the product will be deleted from the database  
 //db.delete\_product(1);  
  
 //get\_list\_of\_products  
 /\*\*  
 List<Product> list = db.get\_list\_of\_products();  
 System.out.println(Arrays.toString(list.toArray()));  
 for (int i = 0; i < list.size(); i++) {  
 System.out.printf("%s %s %s %d %d %d \n", list.get(i).product\_id, list.get(i).name, list.get(i).description, list.get(i).price, list.get(i).amount\_sold, list.get(i).seller\_id);  
 }  
 \*\*/  
 }  
}

Order.java

package datebase\_jon;  
  
/\*\*  
 \* Order class  
 \* @author Kelvin Dhoman  
 \*  
 \*/  
public class Order {  
 public Integer order\_id;  
 public Integer buyer\_id;  
 public String total\_cost;  
 public String product\_ids;  
}

Product.java

package datebase\_jon;  
  
/\*\*  
 \* Class representing a product  
 \* @author Kelvin Dhoman  
 \*  
 \*/  
public class Product {  
 public Integer product\_id;  
 public Integer seller\_id;  
 public Integer amount\_sold;  
 public String name;  
 public Integer price;  
 public boolean available;  
 public Integer availableQuantity;  
 public boolean discountCodeActive;  
 public String discountCode;  
 public Double discountPercentage;  
 public String description;  
   
 /\*\*  
 \* Default Constructor  
 \*/  
 public Product()  
 {  
   
 }  
  
 /\*\*  
 \* A Product Item that will be created by GUI and then sent to the database.  
 \* @param associatedSellerId The Seller ID.  
 \* @param productName The Product Name.  
 \* @param productPrice the Product Price.  
 \* @param productDescription The Product description.  
 \* @param available If available or not.  
 \* @param availableQuantity The available quantity.  
 \* @param discountCodeActive If a discount code exists for the product.  
 \*/  
 public Product(Integer productId, String productName, Integer productPrice, String productDescription, boolean available, Integer availableQuantity, boolean discountCodeActive)  
 {  
 this.product\_id = productId;  
 this.name = productName;  
 this.description = productDescription;  
 this.price = productPrice;  
 this.available = available;  
 this.availableQuantity = availableQuantity;  
 this.discountCodeActive = discountCodeActive;  
 }  
  
 /\*\*  
 \* Returns the product price.  
 \* @return Product price  
 \*/  
 public Integer getProductPrice() {  
 return price;  
 }  
  
 /\*\*  
 \* Sets the product's price  
 \* @param productPrice The new product price.  
 \*/  
 public void setProductPrice(Integer productPrice) {  
 this.price = productPrice;  
 }  
  
 /\*\*  
 \* Returns the item's available quantity.  
 \* @return The quantity of the item available.  
 \*/  
 public Integer getQuantity() {  
 return availableQuantity;  
 }  
  
 /\*\*  
 \* Set the quantity of the item available.  
 \* @param availableQuantity The available quantity.  
 \*/  
 public void setQuantity(Integer availableQuantity) {  
 this.availableQuantity = availableQuantity;  
 }  
  
 /\*\*  
 \* Gets the product description.  
 \* @return Returns the product description.  
 \*/  
 public String getProductDescription() {  
 return description;  
 }  
  
 /\*\*  
 \* Sets the product description of the product.  
 \* @param productDescription The product description.  
 \*/  
 public void setProductDescription(String productDescription) {  
 this.description = productDescription;  
 }  
}

Review.java

package datebase\_jon;  
  
public class Review {  
 public Integer review\_id;  
 public Integer user\_id;  
 public Integer product\_id;  
 public String reviewer\_name;  
 public String review\_rating;  
 public String review\_content;  
   
 public Review()  
 {  
   
 }  
   
 public Review(Integer review\_id, Integer user\_id, Integer product\_id, String reviewerName, String review\_rating, String review\_content)  
 {  
 this.review\_id = review\_id;  
 this.user\_id = user\_id;  
 this.product\_id = product\_id;  
 this.reviewer\_name = reviewerName;  
 this.review\_rating = review\_rating;  
 this.review\_content = review\_content;  
 }  
}

Seller.java

package datebase\_jon;  
  
public class Seller extends User {  
   
 Integer seller\_id;  
 Boolean accountActive;  
 Product[] sellerInventory;  
 Double totalRevenue;  
  
 public Seller()  
 {  
 super();  
 seller\_id = user\_id;  
 accountActive = approval;  
 }  
   
 public void updateItem(Product itemToEdit, Double newPrice, Integer newQuantity, String newDescription)  
 {  
   
 }  
   
 public Product createNewItem()  
 {  
 return null;  
 }  
   
 public void deleteProduct(Product product)  
 {  
   
 }  
   
 public void setSellerInventory()  
 {  
  
 }  
   
 public Product[] getSellerInventory()  
 {  
 return sellerInventory;  
 }  
}

Admin.java

package datebase\_jon;  
  
/\*\*  
 \* Admin User element  
 \* @author Kelvin Dhoman  
 \*  
 \*/  
public class Admin extends User {  
   
 Boolean isAdmin;  
   
 /\*\*  
 \* Constructor for an admin user  
 \*/  
 public Admin()  
 {  
 super();  
 isAdmin = true;  
 }  
   
 /\*\*  
 \* Function to cancel an order  
 \* @param order the order to cancel.  
 \*/  
 public void cancelorder(Order order)  
 {  
   
 }  
   
 /\*\*  
 \* Approve a seller's account  
 \* @param seller The seller account to approve.  
 \*/  
 public void approveSeller(Seller seller)  
 {  
   
 }  
   
 /\*\*  
 \* Deny a seller's account  
 \* @param seller The seller account to deny.  
 \*/  
 public void denySeller(Seller seller)  
 {  
   
 }  
   
 /\*\*  
 \* Delete a review  
 \* @param review The review to delete  
 \*/  
 public void deleteReview(Review review)  
 {  
   
 }  
   
 /\*\*  
 \* Create a user  
 \* @param username The username to create a user with  
 \* @param password The password for the new user  
 \* @param email The email of the new user  
 \* @return A user object that is created  
 \*/  
 public User createUser(String username, String password, String email)  
 {  
 return null;  
 }  
}

User.java

package datebase\_jon;  
  
public class User {  
 public int user\_id;  
 public String firstname;  
 public String lastname;  
 public String email;  
 public String account\_type;  
 public Boolean approval;  
 public Boolean authenticated;  
}

FailedLoginPrompt.java

package pages\_jarold;  
  
import java.awt.EventQueue;  
  
import javax.swing.ImageIcon;  
import javax.swing.JFrame;  
import javax.swing.JPanel;  
import javax.swing.border.EmptyBorder;  
import javax.swing.JLabel;  
import java.awt.Font;  
import java.awt.Image;  
  
/\*\*  
 \* Failed login prompt UI  
 \* @author Kelvin Dhoman  
 \*  
 \*/  
public class FailedLoginPrompt extends JFrame {  
  
 /\*\*  
 \*   
 \*/  
 private static final long serialVersionUID = 1L;  
 private JPanel contentPane;  
  
 /\*\*  
 \* Launch the application.  
 \*/  
 public static void main(String[] args) {  
 EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 try {  
 FailedLoginPrompt frame = new FailedLoginPrompt();  
 frame.setTitle("Shoplet - Login Failed");  
 frame.setVisible(true);  
 } catch (Exception e) {  
 e.printStackTrace();  
 }  
 }  
 });  
 }  
  
 /\*\*  
 \* Create the frame.  
 \*/  
 public FailedLoginPrompt() {  
   
 setBounds(100, 100, 392, 108);  
 contentPane = new JPanel();  
 contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));  
  
 setContentPane(contentPane);  
 contentPane.setLayout(null);  
   
 JLabel lblNewLabel = new JLabel("Wrong username or password!");  
 lblNewLabel.setFont(new Font("Tahoma", Font.PLAIN, 17));  
 lblNewLabel.setBounds(115, 11, 251, 37);  
 contentPane.add(lblNewLabel);  
   
 JLabel logo\_label = new JLabel("");  
 logo\_label.setBounds(29, 11, 50, 48);  
 contentPane.add(logo\_label);  
 Image logo = new ImageIcon(this.getClass().getResource("x.png")).getImage();  
 Image scaledImage = logo.getScaledInstance(50, 50, Image.SCALE\_DEFAULT);  
 logo\_label.setIcon(new ImageIcon(scaledImage));  
 }  
}

HomePage.java

package pages\_jarold;  
  
import java.awt.EventQueue;  
  
import javax.swing.JFrame;  
import javax.swing.JPanel;  
import javax.swing.border.EmptyBorder;  
import javax.swing.JLabel;  
import java.awt.Font;  
  
public class HomePage extends JFrame {  
  
 private JPanel contentPane;  
  
 /\*\*  
 \* Launch the application.  
 \*/  
 public static void main(String[] args) {  
 EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 try {  
 HomePage frame = new HomePage();  
 frame.setTitle("Shoplet");  
 frame.setVisible(true);  
 } catch (Exception e) {  
 e.printStackTrace();  
 }  
 }  
 });  
 }  
  
 /\*\*  
 \* Create the frame.  
 \*/  
 public HomePage() {  
 setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);  
 setBounds(100, 100, 689, 478);  
 contentPane = new JPanel();  
 contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));  
  
 setContentPane(contentPane);  
 contentPane.setLayout(null);  
   
 JLabel lblNewLabel = new JLabel("Log in successful! ");  
 lblNewLabel.setFont(new Font("Tahoma", Font.PLAIN, 30));  
 lblNewLabel.setBounds(148, 102, 355, 161);  
 contentPane.add(lblNewLabel);  
 }  
  
}

Login.java

package pages\_jarold;  
  
import java.awt.EventQueue;  
  
import javax.swing.JFrame;  
import javax.swing.JPanel;  
import javax.swing.border.EmptyBorder;  
import javax.swing.JLabel;  
import java.awt.Font;  
  
public class HomePage extends JFrame {  
  
 private JPanel contentPane;  
  
 /\*\*  
 \* Launch the application.  
 \*/  
 public static void main(String[] args) {  
 EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 try {  
 HomePage frame = new HomePage();  
 frame.setTitle("Shoplet");  
 frame.setVisible(true);  
 } catch (Exception e) {  
 e.printStackTrace();  
 }  
 }  
 });  
 }  
  
 /\*\*  
 \* Create the frame.  
 \*/  
 public HomePage() {  
 setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);  
 setBounds(100, 100, 689, 478);  
 contentPane = new JPanel();  
 contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));  
  
 setContentPane(contentPane);  
 contentPane.setLayout(null);  
   
 JLabel lblNewLabel = new JLabel("Log in successful! ");  
 lblNewLabel.setFont(new Font("Tahoma", Font.PLAIN, 30));  
 lblNewLabel.setBounds(148, 102, 355, 161);  
 contentPane.add(lblNewLabel);  
 }  
  
}

Registration.java

package pages\_jarold;  
  
import java.awt.EventQueue;  
  
import javax.swing.ImageIcon;  
import javax.swing.JFrame;  
import javax.swing.JPanel;  
import javax.swing.border.EmptyBorder;  
  
import datebase\_jon.ShopletSystemManager;  
  
import javax.swing.JLabel;  
import java.awt.Font;  
import java.awt.Image;  
import javax.swing.JPopupMenu;  
import java.awt.Component;  
import java.awt.event.MouseAdapter;  
import java.awt.event.MouseEvent;  
import javax.swing.JComboBox;  
import javax.swing.JMenuBar;  
import javax.swing.JMenuItem;  
import java.awt.Color;  
import javax.swing.DefaultComboBoxModel;  
import javax.swing.JButton;  
import javax.swing.JPasswordField;  
import javax.swing.JTextField;  
import java.awt.event.ActionListener;  
import java.awt.event.ActionEvent;  
  
public class Registration extends JFrame {  
  
 private JPanel contentPane;  
 private JPasswordField password2\_box;  
 private JPasswordField password\_box;  
 private JTextField inputFirstName;  
 private JTextField email\_box;  
 private JTextField inputLastName;  
  
 /\*\*  
 \* Launch the application.  
 \*/  
 public static void main(String[] args) {  
 EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 try {  
 Registration frame = new Registration();  
 frame.setTitle("Shoplet - Registration");  
 frame.setVisible(true);  
 } catch (Exception e) {  
 e.printStackTrace();  
 }  
 }  
 });  
 }  
  
 /\*\*  
 \* Create the frame.  
 \*/  
 public Registration() {  
 setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);  
 setBounds(100, 100, 464, 534);  
 contentPane = new JPanel();  
 contentPane.setBackground(new Color(240, 240, 240));  
 contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));  
  
 setContentPane(contentPane);  
 contentPane.setLayout(null);  
   
 JLabel registration\_desc = new JLabel("Create a Shoplet account");  
 registration\_desc.setBounds(184, 36, 231, 42);  
 registration\_desc.setFont(new Font("Tahoma", Font.PLAIN, 15));  
 contentPane.add(registration\_desc);  
   
 JLabel logo\_label = new JLabel("");  
 logo\_label.setBounds(10, 11, 148, 144);  
 contentPane.add(logo\_label);  
 Image logo = new ImageIcon(this.getClass().getResource("logo.png")).getImage();  
 Image scaledImage = logo.getScaledInstance(150, 150, Image.SCALE\_DEFAULT);  
 logo\_label.setIcon(new ImageIcon(scaledImage));  
   
 JLabel account\_label = new JLabel("Account type :");  
 account\_label.setBounds(48, 166, 128, 28);  
 account\_label.setFont(new Font("Tahoma", Font.PLAIN, 15));  
 contentPane.add(account\_label);  
   
 JComboBox account\_box = new JComboBox();  
 account\_box.setModel(new DefaultComboBoxModel(new String[] {"Buyer", "Seller"}));  
 account\_box.setMaximumRowCount(2);  
 account\_box.setBounds(186, 171, 201, 22);  
 contentPane.add(account\_box);  
   
 JLabel email\_label = new JLabel("Email : ");  
 email\_label.setFont(new Font("Tahoma", Font.PLAIN, 15));  
 email\_label.setBounds(48, 205, 128, 28);  
 contentPane.add(email\_label);  
   
 JButton cancel\_button = new JButton("Cancel");  
 cancel\_button.addActionListener(new ActionListener() {  
 public void actionPerformed(ActionEvent e) {  
 Login login = new Login();  
 login.setVisible(true);  
 dispose();  
   
 }  
 });  
 cancel\_button.setBounds(297, 407, 89, 23);  
 contentPane.add(cancel\_button);  
   
 JButton register\_button = new JButton("Register");  
 register\_button.addActionListener(new ActionListener() {  
 public void actionPerformed(ActionEvent e) {  
 boolean match = false;  
   
 if(String.valueOf(password\_box.getPassword()) == String.valueOf(password\_box.getPassword())) {  
 match = true;  
 }  
 else {  
 match = false;  
 }   
   
 if ((String.valueOf(account\_box.getSelectedItem()).equals("Seller")))  
 {  
 System.out.println("Test");  
 ShopletSystemManager.getInstance().add\_user(inputFirstName.getText(), inputLastName.getText(), email\_box.getText(), String.valueOf(password\_box.getPassword()), String.valueOf(account\_box.getSelectedItem()), false);  
 }  
 else if ((String.valueOf(account\_box.getSelectedItem()).equals("Buyer")))  
 {  
 System.out.println("Test1");  
 ShopletSystemManager.getInstance().add\_user(inputFirstName.getText(), inputLastName.getText(), email\_box.getText(), String.valueOf(password\_box.getPassword()), String.valueOf(account\_box.getSelectedItem()), true);  
 }  
 //String firstname, String lastname, String email, String password, String account\_type, Boolean approval  
 }  
 });  
 register\_button.setBounds(183, 407, 89, 23);  
 contentPane.add(register\_button);  
   
 JLabel user\_label = new JLabel("First Name:");  
 user\_label.setFont(new Font("Tahoma", Font.PLAIN, 15));  
 user\_label.setBounds(48, 244, 128, 28);  
 contentPane.add(user\_label);  
   
 JLabel pass\_label = new JLabel("Password : ");  
 pass\_label.setFont(new Font("Tahoma", Font.PLAIN, 15));  
 pass\_label.setBounds(48, 318, 128, 28);  
 contentPane.add(pass\_label);  
   
 JLabel confpass\_label = new JLabel("Confirm password : ");  
 confpass\_label.setFont(new Font("Tahoma", Font.PLAIN, 15));  
 confpass\_label.setBounds(51, 357, 148, 28);  
 contentPane.add(confpass\_label);  
   
 password2\_box = new JPasswordField();  
 password2\_box.setColumns(25);  
 password2\_box.setBounds(184, 363, 203, 20);  
 contentPane.add(password2\_box);  
   
 password\_box = new JPasswordField();  
 password\_box.setColumns(25);  
 password\_box.setBounds(184, 324, 203, 20);  
 contentPane.add(password\_box);  
   
 inputFirstName = new JTextField();  
 inputFirstName.setColumns(20);  
 inputFirstName.setBounds(184, 250, 203, 20);  
 contentPane.add(inputFirstName);  
   
 email\_box = new JTextField();  
 email\_box.setBounds(184, 211, 203, 20);  
 contentPane.add(email\_box);  
 email\_box.setColumns(30);  
   
 JLabel user\_label\_1 = new JLabel("Last Name:");  
 user\_label\_1.setFont(new Font("Tahoma", Font.PLAIN, 15));  
 user\_label\_1.setBounds(48, 282, 128, 28);  
 contentPane.add(user\_label\_1);  
   
 inputLastName = new JTextField();  
 inputLastName.setColumns(20);  
 inputLastName.setBounds(184, 281, 203, 20);  
 contentPane.add(inputLastName);  
 }  
   
 private static void addPopup(Component component, final JPopupMenu popup) {  
 component.addMouseListener(new MouseAdapter() {  
 public void mousePressed(MouseEvent e) {  
 if (e.isPopupTrigger()) {  
 showMenu(e);  
 }  
 }  
 public void mouseReleased(MouseEvent e) {  
 if (e.isPopupTrigger()) {  
 showMenu(e);  
 }  
 }  
 private void showMenu(MouseEvent e) {  
 popup.show(e.getComponent(), e.getX(), e.getY());  
 }  
 });  
 }  
}

ActiveSellersUI.java

package pages\_Jeff\_Admin;  
  
import javax.swing.\*;  
import java.awt.event.\*;  
import java.util.List;  
  
import javax.swing.GroupLayout.Alignment;  
import javax.swing.LayoutStyle.ComponentPlacement;  
import javax.swing.border.Border;  
  
import datebase\_jon.ShopletSystemManager;  
import datebase\_jon.User;  
import net.miginfocom.swing.MigLayout;  
  
import java.awt.Color;  
import java.awt.Dimension;  
import java.awt.Font;  
  
public class ActiveSellersUI extends JFrame implements ActionListener{  
  
 /\*\*  
 \* Creates new form ActiveSellersUI  
 \*/  
 public ActiveSellersUI() {  
 setTitle("Admin Panel - Active Sellers");  
 initComponents();  
 }  
  
 /\*\*  
 \* This method is called from within the constructor to initialize the form.  
 \* WARNING: Do NOT modify this code. The content of this method is always  
 \* regenerated by the Form Editor.  
 \*/  
 //@SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 contentPane = new javax.swing.JPanel();  
 menuPane = new javax.swing.JPanel();  
 active\_sellersPane = new javax.swing.JPanel();  
  
 contentPane.setBackground(new Color(240, 240, 240));  
  
 menuPane.setBackground(new Color(240, 240, 240));  
 back\_button = new javax.swing.JButton();  
 back\_button.setForeground(new Color(255, 255, 255));  
   
 back\_button.setBackground(new java.awt.Color(102, 102, 102));  
 back\_button.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 back\_button.setText("Close");  
 back\_button.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 back\_buttonActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout menuPaneLayout = new javax.swing.GroupLayout(menuPane);  
 menuPaneLayout.setHorizontalGroup(  
 menuPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(menuPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(back\_button, GroupLayout.PREFERRED\_SIZE, 111, GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap(776, Short.MAX\_VALUE))  
 );  
 menuPaneLayout.setVerticalGroup(  
 menuPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(menuPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(back\_button, GroupLayout.DEFAULT\_SIZE, 51, Short.MAX\_VALUE)  
 .addContainerGap())  
 );  
 menuPane.setLayout(menuPaneLayout);  
  
 active\_sellersPane.setBackground(new Color(240, 240, 240));  
  
 javax.swing.GroupLayout contentPaneLayout = new javax.swing.GroupLayout(contentPane);  
 contentPaneLayout.setHorizontalGroup(  
 contentPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(contentPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addComponent(active\_sellersPane, GroupLayout.DEFAULT\_SIZE, GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addComponent(menuPane, GroupLayout.PREFERRED\_SIZE, 897, GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap())))  
 );  
 contentPaneLayout.setVerticalGroup(  
 contentPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(menuPane, GroupLayout.PREFERRED\_SIZE, GroupLayout.DEFAULT\_SIZE, GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(ComponentPlacement.RELATED, 18, Short.MAX\_VALUE)  
 .addComponent(active\_sellersPane, GroupLayout.PREFERRED\_SIZE, 547, GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap())  
 );  
 active\_sellersPane.setLayout(new BoxLayout(active\_sellersPane, BoxLayout.X\_AXIS));  
 contentPane.setLayout(contentPaneLayout);  
  
 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
 getContentPane().setLayout(layout);  
 layout.setHorizontalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 );  
   
 active\_sellersPane.setLayout(new BoxLayout(active\_sellersPane, BoxLayout.Y\_AXIS));  
   
 //Active Users  
 List<User> pendingSellers = ShopletSystemManager.getInstance().grab\_sellers(true);  
   
 for (int i = 0; i < pendingSellers.size(); i++)  
 {  
 active\_sellersPane.add(addActiveSeller(pendingSellers.get(i).firstname, pendingSellers.get(i).lastname, pendingSellers.get(i).user\_id), "span, growx");  
 }  
  
 pack();  
 }// </editor-fold>//GEN-END:initComponents  
 private void back\_buttonActionPerformed(ActionEvent evt){  
 this.setVisible(false);  
 }  
   
 /\*\*  
 \* Creates a Pending User UI component  
 \* @param firstName First name of user  
 \* @param lastName Last name of user  
 \* @param user\_id User's id  
 \* @return A JPanel element to approve or deny a user  
 \*/  
 public JPanel addActiveSeller(String firstName, String lastName, Integer user\_id)  
 {   
 // Convert price to 2 decimal places  
 Border border = BorderFactory.createLineBorder(Color.black);  
  
 // Build product entry  
 JPanel newProductPanel = new JPanel(new MigLayout("", "[][]push[][]15", "[]"));  
 newProductPanel.setPreferredSize(new Dimension(1000, 60));  
 newProductPanel.setMaximumSize(new Dimension(1000, 60));  
 newProductPanel.setBackground(Color.white);  
   
 JLabel productLabel = new JLabel(firstName + " " + lastName);  
 productLabel.setFont(new Font("Arial", Font.PLAIN, 28));  
 productLabel.setMaximumSize(new Dimension(200, 100));  
   
 newProductPanel.add(productLabel);  
 newProductPanel.add(new JLabel("Account Type: Seller")).setFont(new Font("Arial", Font.PLAIN, 16));  
   
 JButton productsBtn = new JButton("Products");  
  
 newProductPanel.add(productsBtn);  
   
 productsBtn.addActionListener(new ActionListener() {  
 public void actionPerformed(ActionEvent e) {  
 SellerProductUI newSellerUI = new SellerProductUI(ShopletSystemManager.getInstance().grab\_user\_info(user\_id));  
 newSellerUI.setVisible(true);  
 }  
 });  
   
 newProductPanel.setBorder(border);  
  
 // Return the product panel  
 return newProductPanel;  
 }  
   
   
 public static void main(String args[]) {  
 /\* Set the Nimbus look and feel \*/  
 //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
 /\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
 \* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html   
 \*/  
 try {  
 for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {  
 if ("Nimbus".equals(info.getName())) {  
 javax.swing.UIManager.setLookAndFeel(info.getClassName());  
 break;  
 }  
 }  
 } catch (ClassNotFoundException ex) {  
 java.util.logging.Logger.getLogger(ActiveSellersUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.getLogger(ActiveSellersUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.getLogger(ActiveSellersUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.getLogger(ActiveSellersUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 }  
 //</editor-fold>  
  
 /\* Create and display the form \*/  
 java.awt.EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 new ActiveSellersUI().setVisible(true);  
 }  
 });  
 }  
 private javax.swing.JPanel active\_sellersPane;  
 private javax.swing.JButton back\_button;  
 private javax.swing.JPanel contentPane;  
 private javax.swing.JPanel menuPane;  
 // End of variables declaration//GEN-END:variables  
  
 @Override  
 public void actionPerformed(ActionEvent e) {  
   
   
 //throw new UnsupportedOperationException("Not supported yet."); // Generated from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody  
 }  
}

AdminPanelUI.java

package pages\_Jeff\_Admin;  
  
import javax.swing.\*;  
  
//import java.awt.Window;  
import java.awt.event.\*;  
import java.util.List;  
import java.awt.Color;  
import java.awt.Dimension;  
import java.awt.Font;  
  
import javax.swing.GroupLayout.Alignment;  
import javax.swing.LayoutStyle.ComponentPlacement;  
import javax.swing.border.Border;  
  
import datebase\_jon.Product;  
import datebase\_jon.Review;  
import datebase\_jon.ShopletSystemManager;  
import datebase\_jon.User;  
import net.miginfocom.swing.MigLayout;  
import pages\_Jeff\_Seller.ProductUI;  
import pages\_kelvin.Cart;  
  
import java.awt.FlowLayout;  
  
/\*\*  
 \* Admin Panel UI class  
 \* @author Kelvin Dhoman  
 \*  
 \*/  
public class AdminPanelUI extends JFrame {  
  
 /\*\*  
 \* Creates new form AdminPanelUI  
 \*/  
 public AdminPanelUI() {  
 setTitle("Admin Panel Dashboard");  
 initComponents();  
 }  
  
 /\*\*  
 \* This method is called from within the constructor to initialize the form.  
 \* WARNING: Do NOT modify this code. The content of this method is always  
 \* regenerated by the Form Editor.  
 \*/  
 //@SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 jSlider1 = new javax.swing.JSlider();  
 contentPane = new javax.swing.JPanel();  
 logoPane = new javax.swing.JPanel();  
 logo = new javax.swing.JLabel();  
 head\_Administrator = new javax.swing.JLabel();  
 head\_Dashboard = new javax.swing.JLabel();  
 logout\_button = new javax.swing.JButton();  
 logout\_button.setForeground(new Color(255, 255, 255));  
 pending\_sellersPane = new javax.swing.JPanel();  
 menuPane = new javax.swing.JPanel();  
 create\_new\_user = new javax.swing.JButton();  
 create\_new\_user.setForeground(new Color(255, 255, 255));  
 active\_sellers = new javax.swing.JButton();  
 active\_sellers.setForeground(new Color(255, 255, 255));  
 orders = new javax.swing.JButton();  
 orders.setForeground(new Color(255, 255, 255));  
 pending\_sellers = new javax.swing.JPanel();  
  
 setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  
  
 contentPane.setBackground(new Color(240, 240, 240));  
  
 logoPane.setBackground(new Color(240, 240, 240));  
  
 logo.setIcon(new ImageIcon(AdminPanelUI.class.getResource("/pages\_Jeff\_Seller/icon/logo1.png"))); // NOI18N  
  
 head\_Administrator.setFont(new java.awt.Font("Helvetica Neue", 1, 24)); // NOI18N  
 head\_Administrator.setForeground(new java.awt.Color(204, 0, 51));  
 head\_Administrator.setText("Administrator");  
  
 head\_Dashboard.setBackground(new java.awt.Color(255, 255, 255));  
 head\_Dashboard.setFont(new java.awt.Font("Helvetica Neue", 1, 18)); // NOI18N  
 head\_Dashboard.setText("Dashboard (Pending Sellers)");  
  
 logout\_button.setBackground(new java.awt.Color(102, 102, 102));  
 logout\_button.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 logout\_button.setText("Logout");  
 logout\_button.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 logout\_buttonActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout logoPaneLayout = new javax.swing.GroupLayout(logoPane);  
 logoPaneLayout.setHorizontalGroup(  
 logoPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(logoPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(logo)  
 .addPreferredGap(ComponentPlacement.UNRELATED)  
 .addComponent(head\_Administrator)  
 .addGap(68)  
 .addComponent(head\_Dashboard, GroupLayout.PREFERRED\_SIZE, 269, GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(ComponentPlacement.RELATED, 167, Short.MAX\_VALUE)  
 .addComponent(logout\_button, GroupLayout.PREFERRED\_SIZE, 93, GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap())  
 );  
 logoPaneLayout.setVerticalGroup(  
 logoPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addComponent(logo)  
 .addComponent(logout\_button, GroupLayout.PREFERRED\_SIZE, 35, GroupLayout.PREFERRED\_SIZE)  
 .addGroup(logoPaneLayout.createSequentialGroup()  
 .addGap(16)  
 .addGroup(logoPaneLayout.createParallelGroup(Alignment.BASELINE)  
 .addComponent(head\_Administrator, GroupLayout.PREFERRED\_SIZE, 46, GroupLayout.PREFERRED\_SIZE)  
 .addComponent(head\_Dashboard, GroupLayout.PREFERRED\_SIZE, 36, GroupLayout.PREFERRED\_SIZE)))  
 );  
 logoPane.setLayout(logoPaneLayout);  
  
 pending\_sellersPane.setBackground(new Color(240, 240, 240));  
 pending\_sellersPane.addAncestorListener(new javax.swing.event.AncestorListener() {  
 public void ancestorAdded(javax.swing.event.AncestorEvent evt) {  
 pending\_sellersPaneAncestorAdded(evt);  
 }  
 public void ancestorMoved(javax.swing.event.AncestorEvent evt) {  
 }  
 public void ancestorRemoved(javax.swing.event.AncestorEvent evt) {  
 }  
 });  
  
 menuPane.setBackground(new Color(240, 240, 240));  
  
 create\_new\_user.setBackground(new java.awt.Color(102, 102, 102));  
 create\_new\_user.setFont(new java.awt.Font("Helvetica Neue", 1, 12)); // NOI18N  
 create\_new\_user.setText("Create New User");  
 create\_new\_user.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 create\_new\_userActionPerformed(evt);  
 }  
 });  
  
 active\_sellers.setBackground(new java.awt.Color(102, 102, 102));  
 active\_sellers.setFont(new java.awt.Font("Helvetica Neue", 1, 12)); // NOI18N  
 active\_sellers.setText("Active Sellers");  
 active\_sellers.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 active\_sellersActionPerformed(evt);  
 }  
 });  
  
 orders.setBackground(new java.awt.Color(102, 102, 102));  
 orders.setFont(new java.awt.Font("Helvetica Neue", 1, 12)); // NOI18N  
 orders.setText("Orders");  
 orders.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 ordersActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout menuPaneLayout = new javax.swing.GroupLayout(menuPane);  
 menuPaneLayout.setHorizontalGroup(  
 menuPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(menuPaneLayout.createSequentialGroup()  
 .addContainerGap(GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(create\_new\_user, GroupLayout.PREFERRED\_SIZE, 160, GroupLayout.PREFERRED\_SIZE)  
 .addGap(132)  
 .addComponent(active\_sellers, GroupLayout.PREFERRED\_SIZE, 160, GroupLayout.PREFERRED\_SIZE)  
 .addGap(136)  
 .addComponent(orders, GroupLayout.PREFERRED\_SIZE, 160, GroupLayout.PREFERRED\_SIZE))  
 );  
 menuPaneLayout.setVerticalGroup(  
 menuPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(menuPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(menuPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(menuPaneLayout.createParallelGroup(Alignment.LEADING, false)  
 .addComponent(create\_new\_user, GroupLayout.DEFAULT\_SIZE, GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(orders, GroupLayout.DEFAULT\_SIZE, 47, Short.MAX\_VALUE))  
 .addComponent(active\_sellers, GroupLayout.DEFAULT\_SIZE, GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addContainerGap())  
 );  
 menuPane.setLayout(menuPaneLayout);  
  
 pending\_sellers.setBackground(new Color(240, 240, 240));  
  
 javax.swing.GroupLayout pending\_sellersPaneLayout = new javax.swing.GroupLayout(pending\_sellersPane);  
 pending\_sellersPaneLayout.setHorizontalGroup(  
 pending\_sellersPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(pending\_sellersPaneLayout.createSequentialGroup()  
 .addGap(47)  
 .addComponent(menuPane, GroupLayout.PREFERRED\_SIZE, GroupLayout.DEFAULT\_SIZE, GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap(38, Short.MAX\_VALUE))  
 .addComponent(pending\_sellers, GroupLayout.DEFAULT\_SIZE, 843, Short.MAX\_VALUE)  
 );  
 pending\_sellersPaneLayout.setVerticalGroup(  
 pending\_sellersPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(pending\_sellersPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(menuPane, GroupLayout.PREFERRED\_SIZE, GroupLayout.DEFAULT\_SIZE, GroupLayout.PREFERRED\_SIZE)  
 .addGap(24)  
 .addComponent(pending\_sellers, GroupLayout.DEFAULT\_SIZE, 492, Short.MAX\_VALUE)  
 .addContainerGap())  
 );  
 pending\_sellers.setLayout(new BoxLayout(pending\_sellers, BoxLayout.X\_AXIS));  
 pending\_sellersPane.setLayout(pending\_sellersPaneLayout);  
  
 javax.swing.GroupLayout contentPaneLayout = new javax.swing.GroupLayout(contentPane);  
 contentPane.setLayout(contentPaneLayout);  
 contentPaneLayout.setHorizontalGroup(  
 contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(logoPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGap(16, 16, 16)  
 .addComponent(pending\_sellersPane, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap(15, Short.MAX\_VALUE))  
 );  
 contentPaneLayout.setVerticalGroup(  
 contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(logoPane, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 18, Short.MAX\_VALUE)  
 .addComponent(pending\_sellersPane, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))  
 );  
  
 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
 getContentPane().setLayout(layout);  
 layout.setHorizontalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 );  
   
 pending\_sellers.setLayout(new BoxLayout(pending\_sellers, BoxLayout.Y\_AXIS));  
   
 //Pending Users  
 List<User> pendingSellers = ShopletSystemManager.getInstance().grab\_sellers(false);  
   
 for (int i = 0; i < pendingSellers.size(); i++)  
 {  
 pending\_sellers.add(addPendingSeller(pendingSellers.get(i).firstname, pendingSellers.get(i).lastname, pendingSellers.get(i).user\_id), "span, growx");  
 }  
  
 pack();  
 }// </editor-fold>//GEN-END:initComponents  
  
 private void pending\_sellersPaneAncestorAdded(javax.swing.event.AncestorEvent evt) {//GEN-FIRST:event\_pending\_sellersPaneAncestorAdded  
 // TODO add your handling code here:  
 }//GEN-LAST:event\_pending\_sellersPaneAncestorAdded  
  
//GEN-FIRST:event\_ordersActionPerformed  
   
//GEN-LAST:event\_ordersActionPerformed  
  
 private void active\_sellersActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_active\_sellersActionPerformed  
 ActiveSellersUI obj = new ActiveSellersUI();  
 obj.setVisible(true);  
 }//GEN-LAST:event\_active\_sellersActionPerformed  
  
 private void create\_new\_userActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_create\_new\_userActionPerformed  
 CreateNewUserUI obj = new CreateNewUserUI();  
 obj.setVisible(true);  
 }//GEN-LAST:event\_create\_new\_userActionPerformed  
 private void ordersActionPerformed(ActionEvent evt){  
 OrdersUI obj = new OrdersUI();  
 obj.setVisible(true);  
 }  
 private void logout\_buttonActionPerformed(ActionEvent evt){  
 Logout obj = new Logout();  
 if(logout\_button.getMouseListeners() != null){  
 System.exit(0);  
 obj.getClass();  
 //AdminPanelUI.dispose();  
 }  
 }  
  
/\* \*//\*   
 private void displayPaneAncestorAdded(javax.swing.event.AncestorEvent evt) {   
 PendingSellersUI obj = new PendingSellersUI();  
 obj.setVisible(true);  
 }  
\*/  
   
 /\*\*  
 \* Creates a Pending User UI component  
 \* @param firstName First name of user  
 \* @param lastName Last name of user  
 \* @param user\_id User's id  
 \* @return A JPanel element to approve or deny a user  
 \*/  
 public JPanel addPendingSeller(String firstName, String lastName, Integer user\_id)  
 {   
 // Convert price to 2 decimal places  
 Border border = BorderFactory.createLineBorder(Color.black);  
  
 // Build product entry  
 JPanel newProductPanel = new JPanel(new MigLayout("", "[][]push[][]15", "[]"));  
 newProductPanel.setPreferredSize(new Dimension(1000, 60));  
 newProductPanel.setMaximumSize(new Dimension(1000, 60));  
 newProductPanel.setBackground(Color.white);  
   
 JLabel productLabel = new JLabel(firstName + " " + lastName);  
 productLabel.setFont(new Font("Arial", Font.PLAIN, 28));  
 productLabel.setMaximumSize(new Dimension(200, 100));  
   
 newProductPanel.add(productLabel);  
 newProductPanel.add(new JLabel("Account Type: Seller")).setFont(new Font("Arial", Font.PLAIN, 16));  
   
 JButton approveBtn = new JButton("Approve");  
 JButton denyBtn = new JButton("Deny");  
  
 newProductPanel.add(approveBtn);  
 newProductPanel.add(denyBtn);  
   
 approveBtn.addActionListener(new ActionListener() {  
 public void actionPerformed(ActionEvent e) {  
 ShopletSystemManager.getInstance().edit\_user(user\_id, null, null, null, null, null, true);  
 JOptionPane.showMessageDialog(null, "User has been approved.", "Shoplet", JOptionPane.INFORMATION\_MESSAGE);  
 refreshPendingUserList();  
 }  
 });  
   
 denyBtn.addActionListener(new ActionListener() {  
 public void actionPerformed(ActionEvent e) {  
 ShopletSystemManager.getInstance().edit\_user(user\_id, null, null, null, null, "buyer", false);  
 JOptionPane.showMessageDialog(null, "User has been denied.", "Shoplet", JOptionPane.INFORMATION\_MESSAGE);  
 refreshPendingUserList();  
 }  
 });  
   
 newProductPanel.setBorder(border);  
  
 // Return the product panel  
 return newProductPanel;  
 }  
   
 /\*\*  
 \* Refreshes Pending User list UI  
 \*/  
 public void refreshPendingUserList()  
 {  
 pending\_sellers.removeAll();  
   
 //Pending Sellers  
 List<User> pendingSellers = ShopletSystemManager.getInstance().grab\_sellers(false);  
   
 for (int i = 0; i < pendingSellers.size(); i++)  
 {  
 pending\_sellers.add(addPendingSeller(pendingSellers.get(i).firstname, pendingSellers.get(i).lastname, pendingSellers.get(i).user\_id), "span, growx");  
 }  
   
 pending\_sellers.revalidate();  
 pending\_sellers.repaint();   
 }  
  
   
  
 public static void main(String args[]) {  
 try {  
 for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {  
 if ("Nimbus".equals(info.getName())) {  
 javax.swing.UIManager.setLookAndFeel(info.getClassName());  
 break;  
 }  
 }  
 } catch (ClassNotFoundException ex) {  
 java.util.logging.Logger.getLogger(AdminPanelUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.getLogger(AdminPanelUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.getLogger(AdminPanelUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.getLogger(AdminPanelUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 }  
 //</editor-fold>  
  
 /\* Create and display the form \*/  
 java.awt.EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 new AdminPanelUI().setVisible(true);   
 }  
 });  
   
 //AdminPanelUI obj = new AdminPanelUI();  
 //JFrame frame = new AdminPanelUI();  
 }  
 private javax.swing.JButton active\_sellers;  
 private javax.swing.JPanel contentPane;  
 private javax.swing.JButton create\_new\_user;  
 private javax.swing.JLabel head\_Administrator;  
 private javax.swing.JLabel head\_Dashboard;  
 private javax.swing.JSlider jSlider1;  
 private javax.swing.JLabel logo;  
 private javax.swing.JPanel logoPane;  
 private javax.swing.JButton logout\_button;  
 private javax.swing.JPanel menuPane;  
 private javax.swing.JButton orders;  
 private javax.swing.JPanel pending\_sellers;  
 private javax.swing.JPanel pending\_sellersPane;  
 // End of variables declaration//GEN-END:variables  
}

CreateNewUserUI.java

package pages\_Jeff\_Admin;  
  
import javax.swing.\*;  
  
import datebase\_jon.ShopletSystemManager;  
  
import java.awt.event.\*;  
import java.awt.Color;  
import javax.swing.GroupLayout.Alignment;  
import javax.swing.LayoutStyle.ComponentPlacement;  
  
/\*\*  
 \* Creates a new user class UI  
 \* @author Kelvin Dhoman  
 \*  
 \*/  
public class CreateNewUserUI extends JFrame implements ActionListener{  
  
 /\*\*  
 \* Creates new form CreateNewUserUI  
 \*/  
 public CreateNewUserUI() {  
 setTitle("Admin - Create User");  
 getContentPane().setBackground(new Color(240, 240, 240));  
 initComponents();  
 }  
  
 /\*\*  
 \* This method is called from within the constructor to initialize the form.  
 \* WARNING: Do NOT modify this code. The content of this method is always  
 \* regenerated by the Form Editor.  
 \*/  
 //@SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 contentPane = new javax.swing.JPanel();  
 logoPane = new javax.swing.JPanel();  
 logo = new javax.swing.JLabel();  
 header\_message = new javax.swing.JLabel();  
 inforPane = new javax.swing.JPanel();  
 account\_type = new javax.swing.JLabel();  
 account\_type.setBounds(31, 11, 132, 32);  
 email = new javax.swing.JLabel();  
 email.setBounds(31, 61, 126, 32);  
 username = new javax.swing.JLabel();  
 username.setBounds(31, 191, 126, 31);  
 password = new javax.swing.JLabel();  
 password.setBounds(31, 233, 126, 32);  
 confirm\_password = new javax.swing.JLabel();  
 confirm\_password.setBounds(31, 277, 126, 30);  
 account\_typeCombo = new javax.swing.JComboBox<>();  
 account\_typeCombo.setBounds(181, 16, 218, 22);  
 email\_TextField = new javax.swing.JTextField();  
 email\_TextField.setBounds(181, 69, 218, 16);  
 username\_TextField = new javax.swing.JTextField();  
 username\_TextField.setBounds(179, 198, 218, 16);  
 passwor\_PasswordField = new javax.swing.JPasswordField();  
 passwor\_PasswordField.setBounds(179, 241, 218, 16);  
 comfirm\_passwor\_PasswordField = new javax.swing.JPasswordField();  
 comfirm\_passwor\_PasswordField.setBounds(179, 284, 218, 16);  
 create = new javax.swing.JButton();  
 create.setBounds(179, 324, 100, 32);  
 cancel = new javax.swing.JButton();  
 cancel.setBounds(297, 324, 100, 32);  
  
 contentPane.setBackground(new Color(240, 240, 240));  
  
 logoPane.setBackground(new Color(240, 240, 240));  
  
 logo.setIcon(new ImageIcon(CreateNewUserUI.class.getResource("/pages\_Jeff\_Admin/logo1.png"))); // NOI18N  
  
 header\_message.setBackground(new java.awt.Color(255, 255, 255));  
 header\_message.setFont(new java.awt.Font("Helvetica Neue", 1, 14)); // NOI18N  
 header\_message.setText("Create a SHOPLET Account");  
  
 javax.swing.GroupLayout logoPaneLayout = new javax.swing.GroupLayout(logoPane);  
 logoPane.setLayout(logoPaneLayout);  
 logoPaneLayout.setHorizontalGroup(  
 logoPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(logoPaneLayout.createSequentialGroup()  
 .addContainerGap(143, Short.MAX\_VALUE)  
 .addComponent(logo)  
 .addGap(26, 26, 26)  
 .addComponent(header\_message)  
 .addGap(76, 76, 76))  
 );  
 logoPaneLayout.setVerticalGroup(  
 logoPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, logoPaneLayout.createSequentialGroup()  
 .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(header\_message, javax.swing.GroupLayout.PREFERRED\_SIZE, 45, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(42, 42, 42))  
 .addGroup(logoPaneLayout.createSequentialGroup()  
 .addComponent(logo)  
 .addGap(0, 16, Short.MAX\_VALUE))  
 );  
  
 inforPane.setBackground(new Color(240, 240, 240));  
  
 account\_type.setText("Account Type :");  
  
 email.setText("Email :");  
  
 username.setText("Username :");  
  
 password.setText("Password :");  
  
 confirm\_password.setText("Confirm Password :");  
  
 account\_typeCombo.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Buyer", "Seller", "Admin" }));  
 account\_typeCombo.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  
  
 email\_TextField.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  
  
 username\_TextField.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  
  
 passwor\_PasswordField.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  
  
 comfirm\_passwor\_PasswordField.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  
  
 create.setBackground(new java.awt.Color(153, 204, 255));  
 create.setFont(new java.awt.Font("Helvetica Neue", 1, 14)); // NOI18N  
 create.setText("Create");  
 create.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  
 create.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 createActionPerformed(evt);  
 }  
 });  
  
 cancel.setBackground(new java.awt.Color(153, 204, 255));  
 cancel.setFont(new java.awt.Font("Helvetica Neue", 1, 14)); // NOI18N  
 cancel.setText("Cancel");  
 cancel.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  
 cancel.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 cancelActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout contentPaneLayout = new javax.swing.GroupLayout(contentPane);  
 contentPaneLayout.setHorizontalGroup(  
 contentPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGroup(contentPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGap(53)  
 .addComponent(logoPane, GroupLayout.PREFERRED\_SIZE, GroupLayout.DEFAULT\_SIZE, GroupLayout.PREFERRED\_SIZE))  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGap(115)  
 .addComponent(inforPane, GroupLayout.PREFERRED\_SIZE, 557, GroupLayout.PREFERRED\_SIZE)))  
 .addContainerGap(79, Short.MAX\_VALUE))  
 );  
 contentPaneLayout.setVerticalGroup(  
 contentPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGap(37)  
 .addComponent(logoPane, GroupLayout.PREFERRED\_SIZE, GroupLayout.DEFAULT\_SIZE, GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(ComponentPlacement.UNRELATED)  
 .addComponent(inforPane, GroupLayout.DEFAULT\_SIZE, 373, Short.MAX\_VALUE)  
 .addContainerGap())  
 );  
 inforPane.setLayout(null);  
 inforPane.add(confirm\_password);  
 inforPane.add(password);  
 inforPane.add(username);  
 inforPane.add(email);  
 inforPane.add(account\_type);  
 inforPane.add(account\_typeCombo);  
 inforPane.add(email\_TextField);  
 inforPane.add(username\_TextField);  
 inforPane.add(passwor\_PasswordField);  
 inforPane.add(comfirm\_passwor\_PasswordField);  
 inforPane.add(create);  
 inforPane.add(cancel);  
   
 inputLastName = new JTextField();  
 inputLastName.setBounds(179, 150, 218, 20);  
 inforPane.add(inputLastName);  
 inputLastName.setColumns(10);  
   
 inputFirstName = new JTextField();  
 inputFirstName.setColumns(10);  
 inputFirstName.setBounds(181, 108, 218, 20);  
 inforPane.add(inputFirstName);  
   
 firstNameLbl = new JLabel();  
 firstNameLbl.setText("First Name:");  
 firstNameLbl.setBounds(33, 104, 126, 32);  
 inforPane.add(firstNameLbl);  
   
 lastNameLbl = new JLabel();  
 lastNameLbl.setText("Last Name:");  
 lastNameLbl.setBounds(31, 148, 126, 32);  
 inforPane.add(lastNameLbl);  
 contentPane.setLayout(contentPaneLayout);  
  
 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
 getContentPane().setLayout(layout);  
 layout.setHorizontalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(layout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(contentPane, javax.swing.GroupLayout.PREFERRED\_SIZE, 751, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(layout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(contentPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addContainerGap())  
 );  
  
 pack();  
 }// </editor-fold>//GEN-END:initComponents  
  
 private void cancelActionPerformed(ActionEvent evt){  
 this.setVisible(false);  
 }  
  
 private void createActionPerformed(ActionEvent evt){  
 if (email\_TextField.getText().isEmpty() || inputFirstName.getText().isEmpty() || inputLastName.getText().isEmpty() || username\_TextField.getText().isEmpty()   
 || passwor\_PasswordField.getText().isEmpty() || comfirm\_passwor\_PasswordField.getText().isEmpty())  
 {  
 JOptionPane.showMessageDialog(null, "One or more fields are empty.", "Shoplet", JOptionPane.ERROR\_MESSAGE);  
 return;  
 }  
 else if (!(passwor\_PasswordField.getText().equals(comfirm\_passwor\_PasswordField.getText()))) {  
 JOptionPane.showMessageDialog(null, "Password fields do not match.", "Shoplet", JOptionPane.ERROR\_MESSAGE);  
 return;  
 }  
 else  
 {  
 ShopletSystemManager.getInstance().add\_user(inputFirstName.getText(), inputLastName.getText(), email\_TextField.getText(), passwor\_PasswordField.getText(), account\_typeCombo.getSelectedItem().toString(), true);  
 JOptionPane.showMessageDialog(null, "User successfully created.", "Shoplet", JOptionPane.INFORMATION\_MESSAGE);  
 this.setVisible(false);  
 }  
 }  
  
 public static void main(String args[]) {  
 /\* Set the Nimbus look and feel \*/  
 //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
 /\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
 \* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html   
 \*/  
 try {  
 for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {  
 if ("Nimbus".equals(info.getName())) {  
 javax.swing.UIManager.setLookAndFeel(info.getClassName());  
 break;  
 }  
 }  
 } catch (ClassNotFoundException ex) {  
 java.util.logging.Logger.getLogger(CreateNewUserUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.getLogger(CreateNewUserUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.getLogger(CreateNewUserUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.getLogger(CreateNewUserUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 }  
 //</editor-fold>  
  
 /\* Create and display the form \*/  
 java.awt.EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 new CreateNewUserUI().setVisible(true);  
 }  
 });  
 }  
  
 // Variables declaration - do not modify//GEN-BEGIN:variables  
 private javax.swing.JLabel account\_type;  
 private javax.swing.JComboBox<String> account\_typeCombo;  
 private javax.swing.JButton cancel;  
 private javax.swing.JPasswordField comfirm\_passwor\_PasswordField;  
 private javax.swing.JLabel confirm\_password;  
 private javax.swing.JPanel contentPane;  
 private javax.swing.JButton create;  
 private javax.swing.JLabel email;  
 private javax.swing.JTextField email\_TextField;  
 private javax.swing.JLabel header\_message;  
 private javax.swing.JPanel inforPane;  
 private javax.swing.JLabel logo;  
 private javax.swing.JPanel logoPane;  
 private javax.swing.JPasswordField passwor\_PasswordField;  
 private javax.swing.JLabel password;  
 private javax.swing.JLabel username;  
 private javax.swing.JTextField username\_TextField;  
 private JTextField inputLastName;  
 private JTextField inputFirstName;  
 private JLabel firstNameLbl;  
 private JLabel lastNameLbl;  
 // End of variables declaration//GEN-END:variables  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 // TODO Auto-generated method stub  
   
 }  
}

Logout.java

/\*  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template  
 \*/  
package pages\_Jeff\_Admin;  
  
import javax.swing.JFrame;  
import javax.swing.JOptionPane;  
  
/\*\*  
 \*  
 \* @author jeffplatel  
 \*/  
public class Logout {  
 Logout(){  
 JFrame frame = new JFrame();  
 JOptionPane.showMessageDialog(frame, "You've successfully logged out!");  
 }  
 public static void main(String[] args) {  
 Logout logout = new Logout();   
 }  
}

OrdersUI.java

package pages\_Jeff\_Admin;  
import javax.swing.\*;  
import java.awt.event.\*;  
import java.util.List;  
import java.awt.Color;  
import java.awt.Dimension;  
import java.awt.Font;  
  
import javax.swing.GroupLayout.Alignment;  
import javax.swing.LayoutStyle.ComponentPlacement;  
import javax.swing.border.Border;  
  
import datebase\_jon.Order;  
import datebase\_jon.Product;  
import datebase\_jon.ShopletSystemManager;  
import net.miginfocom.swing.MigLayout;  
import pages\_Jeff\_Seller.ProductUI;  
  
public class OrdersUI extends JFrame implements ActionListener{  
  
 //private Refund refund;  
 /\*\*  
 \* Creates new form OrdersUI  
 \*/  
 public OrdersUI() {  
 setTitle("Admin Panel - Orders");  
 initComponents();  
 }  
  
 /\*\*  
 \* This method is called from within the constructor to initialize the form.  
 \* WARNING: Do NOT modify this code. The content of this method is always  
 \* regenerated by the Form Editor.  
 \*/  
 //@SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 contentPane = new javax.swing.JPanel();  
 menuPane = new javax.swing.JPanel();  
 home = new javax.swing.JButton();  
 home.setForeground(new Color(255, 255, 255));  
 ordersPane = new javax.swing.JPanel();  
  
 contentPane.setBackground(new Color(240, 240, 240));  
  
 menuPane.setBackground(new Color(240, 240, 240));  
  
 home.setBackground(new java.awt.Color(102, 102, 102));  
 home.setFont(new java.awt.Font("Helvetica Neue", 1, 12)); // NOI18N  
 home.setText("Close");  
 home.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 homeActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout menuPaneLayout = new javax.swing.GroupLayout(menuPane);  
 menuPaneLayout.setHorizontalGroup(  
 menuPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(menuPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(home, GroupLayout.PREFERRED\_SIZE, 201, GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap(497, Short.MAX\_VALUE))  
 );  
 menuPaneLayout.setVerticalGroup(  
 menuPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(menuPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(home, GroupLayout.DEFAULT\_SIZE, 50, Short.MAX\_VALUE)  
 .addContainerGap())  
 );  
 menuPane.setLayout(menuPaneLayout);  
  
 ordersPane.setBackground(new Color(240, 240, 240));  
  
 javax.swing.GroupLayout contentPaneLayout = new javax.swing.GroupLayout(contentPane);  
 contentPaneLayout.setHorizontalGroup(  
 contentPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGroup(contentPaneLayout.createParallelGroup(Alignment.TRAILING)  
 .addGroup(Alignment.LEADING, contentPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(ordersPane, GroupLayout.DEFAULT\_SIZE, 762, Short.MAX\_VALUE))  
 .addGroup(Alignment.LEADING, contentPaneLayout.createSequentialGroup()  
 .addGap(64)  
 .addComponent(menuPane, GroupLayout.PREFERRED\_SIZE, GroupLayout.DEFAULT\_SIZE, GroupLayout.PREFERRED\_SIZE)))  
 .addContainerGap())  
 );  
 contentPaneLayout.setVerticalGroup(  
 contentPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(menuPane, GroupLayout.PREFERRED\_SIZE, GroupLayout.DEFAULT\_SIZE, GroupLayout.PREFERRED\_SIZE)  
 .addGap(18)  
 .addComponent(ordersPane, GroupLayout.PREFERRED\_SIZE, 536, GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap(GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 );  
 contentPane.setLayout(contentPaneLayout);  
 ordersPane.setLayout(new BoxLayout(ordersPane, BoxLayout.X\_AXIS));  
  
 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
 getContentPane().setLayout(layout);  
 layout.setHorizontalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 );  
   
 ordersPane.setLayout(new BoxLayout(ordersPane, BoxLayout.Y\_AXIS));  
   
 //Orders  
 List<Order> orders = ShopletSystemManager.getInstance().get\_all\_orders();  
   
 for (int i = 0; i < orders.size(); i++)  
 {  
 ordersPane.add(addOrderItem(orders.get(i).order\_id, orders.get(i).buyer\_id, orders.get(i).total\_cost, orders.get(i).product\_ids), "span, growx");  
 }  
  
 pack();  
 }// </editor-fold>//GEN-END:initComponents  
  
 /\*\*  
 \* Adds an order item UI element  
 \* @param order\_id the order\_id of the order  
 \* @param buyer\_id the buyer\_id of the order  
 \* @param total\_cost the total\_cost of the order  
 \* @param productIds the product ids involved in the order  
 \* @return A JPanel element reperesnting a order  
 \*/  
 public JPanel addOrderItem(Integer order\_id, Integer buyer\_id, String total\_cost, String productIds)  
 {   
 // Convert price to 2 decimal places  
 Border border = BorderFactory.createLineBorder(Color.black);  
  
 // Build product entry  
 JPanel orderPanel = new JPanel(new MigLayout("", "[][]push[][]15", "[]"));  
 orderPanel.setPreferredSize(new Dimension(1000, 60));  
 orderPanel.setMaximumSize(new Dimension(1000, 60));  
 orderPanel.setBackground(Color.white);  
   
 JLabel orderNumber = new JLabel("Order #000" + order\_id.toString());  
 orderNumber.setMaximumSize(new Dimension(200, 100));  
 orderPanel.add(orderNumber);  
  
 JLabel orderBuyer = new JLabel("Buyer ID: " + buyer\_id.toString());  
 orderBuyer.setMaximumSize(new Dimension(200, 100));  
 orderPanel.add(orderBuyer);  
   
 JLabel orderTotalCost = new JLabel("Total cost: $" + total\_cost);  
 orderTotalCost.setMaximumSize(new Dimension(200, 100));  
 orderPanel.add(orderTotalCost);  
   
 JLabel productsIdsInCart = new JLabel("Order Products: " + productIds);  
 productsIdsInCart.setMaximumSize(new Dimension(200, 100));  
 orderPanel.add(productsIdsInCart);  
   
 JButton cancelOrder = new JButton("Cancel Order");  
 cancelOrder.addActionListener(new ActionListener() {  
 public void actionPerformed(ActionEvent e) {  
 ShopletSystemManager.getInstance().delete\_order(order\_id);  
 refreshOrdersUI();  
 JOptionPane.showMessageDialog(null, "Order has been cancelled. Refund in process...", "Shoplet", JOptionPane.INFORMATION\_MESSAGE);  
 }  
 });  
   
 orderPanel.add(cancelOrder);  
 orderPanel.setBorder(border);  
  
 // Return the product panel  
 return orderPanel;  
 }  
   
 void refreshOrdersUI()  
 {  
 ordersPane.removeAll();  
   
 //Orders  
 List<Order> orders = ShopletSystemManager.getInstance().get\_all\_orders();  
   
 for (int i = 0; i < orders.size(); i++)  
 {  
 ordersPane.add(addOrderItem(orders.get(i).order\_id, orders.get(i).buyer\_id, orders.get(i).total\_cost, orders.get(i).product\_ids), "span, growx");  
 }  
   
 ordersPane.revalidate();  
 ordersPane.repaint();   
 }  
   
 private void homeActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_homeActionPerformed  
 this.setVisible(false);  
 }//GEN-LAST:event\_homeActionPerformed  
  
 /\*\*  
 \* Main  
 \* @param args  
 \*/  
 public static void main(String args[]) {  
 /\* Set the Nimbus look and feel \*/  
 //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
 /\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
 \* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html   
 \*/  
 try {  
 for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {  
 if ("Nimbus".equals(info.getName())) {  
 javax.swing.UIManager.setLookAndFeel(info.getClassName());  
 break;  
 }  
 }  
 } catch (ClassNotFoundException ex) {  
 java.util.logging.Logger.getLogger(OrdersUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.getLogger(OrdersUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.getLogger(OrdersUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.getLogger(OrdersUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 }  
 //</editor-fold>  
  
 /\* Create and display the form \*/  
 java.awt.EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 new OrdersUI().setVisible(true);  
 }  
 });  
 }  
 private javax.swing.JPanel contentPane;  
 private javax.swing.JButton home;  
 private javax.swing.JPanel menuPane;  
 private javax.swing.JPanel ordersPane;  
 // End of variables declaration//GEN-END:variables  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 // TODO Auto-generated method stub  
   
 }  
}

PendingSellersUI.java

package pages\_Jeff\_Admin;  
  
import javax.swing.\*;  
//import javax.swing.event.AncestorEvent;  
//import javax.swing.event.AncestorListener;  
  
import java.awt.event.\*;  
import java.awt.Color;  
import javax.swing.GroupLayout.Alignment;  
import javax.swing.LayoutStyle.ComponentPlacement;  
  
  
/\*\*  
 \* Pending Sellers UI class  
 \* @author Kelvin Dhoman  
 \*  
 \*/  
public class PendingSellersUI extends JFrame implements ActionListener{  
 /\*\*  
 \* Creates new form PendingSellersUI  
 \*/  
 public PendingSellersUI() {  
 setTitle("Admin - Pending Users");  
 initComponents();  
 }  
  
 /\*\*  
 \* This method is called from within the constructor to initialize the form.  
 \* WARNING: Do NOT modify this code. The content of this method is always  
 \* regenerated by the Form Editor.  
 \*/  
 //@SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 contentPane = new javax.swing.JPanel();  
 menuPane = new javax.swing.JPanel();  
 back\_button = new javax.swing.JButton();  
 back\_button.setForeground(new Color(255, 255, 255));  
 pending\_sellersPane = new javax.swing.JPanel();  
 pending\_sellers1 = new javax.swing.JPanel();  
 fname\_lname1 = new javax.swing.JLabel();  
 account\_type1 = new javax.swing.JLabel();  
 accept1 = new javax.swing.JButton();  
 accept1.setForeground(new Color(255, 255, 255));  
 decline1 = new javax.swing.JButton();  
 decline1.setForeground(new Color(255, 255, 255));  
 pending\_sellers2 = new javax.swing.JPanel();  
 fname\_lname2 = new javax.swing.JLabel();  
 account\_type2 = new javax.swing.JLabel();  
 accept2 = new javax.swing.JButton();  
 accept2.setForeground(new Color(255, 255, 255));  
 decline2 = new javax.swing.JButton();  
 decline2.setForeground(new Color(255, 255, 255));  
 pending\_sellers3 = new javax.swing.JPanel();  
 fname\_lname3 = new javax.swing.JLabel();  
 account\_type3 = new javax.swing.JLabel();  
 accept3 = new javax.swing.JButton();  
 accept3.setForeground(new Color(255, 255, 255));  
 decline3 = new javax.swing.JButton();  
 decline3.setForeground(new Color(255, 255, 255));  
 pending\_sellers4 = new javax.swing.JPanel();  
 fname\_lname4 = new javax.swing.JLabel();  
 account\_type4 = new javax.swing.JLabel();  
 accept4 = new javax.swing.JButton();  
 accept4.setForeground(new Color(255, 255, 255));  
 decline4 = new javax.swing.JButton();  
 decline4.setForeground(new Color(255, 255, 255));  
 pending\_sellers5 = new javax.swing.JPanel();  
 fname\_lname5 = new javax.swing.JLabel();  
 account\_type5 = new javax.swing.JLabel();  
 accept5 = new javax.swing.JButton();  
 accept5.setForeground(new Color(255, 255, 255));  
 decline5 = new javax.swing.JButton();  
 decline5.setForeground(new Color(255, 255, 255));  
 pending\_sellers6 = new javax.swing.JPanel();  
 fname\_lname6 = new javax.swing.JLabel();  
 account\_type6 = new javax.swing.JLabel();  
 accept6 = new javax.swing.JButton();  
 accept6.setForeground(new Color(255, 255, 255));  
 decline6 = new javax.swing.JButton();  
 decline6.setForeground(new Color(255, 255, 255));  
 pending\_sellers7 = new javax.swing.JPanel();  
 fname\_lname7 = new javax.swing.JLabel();  
 account\_type7 = new javax.swing.JLabel();  
 accept7 = new javax.swing.JButton();  
 accept7.setForeground(new Color(255, 255, 255));  
 decline7 = new javax.swing.JButton();  
 decline7.setForeground(new Color(255, 255, 255));  
 pending\_sellers8 = new javax.swing.JPanel();  
 fname\_lname8 = new javax.swing.JLabel();  
 account\_type8 = new javax.swing.JLabel();  
 accept8 = new javax.swing.JButton();  
 accept8.setForeground(new Color(255, 255, 255));  
 decline8 = new javax.swing.JButton();  
 decline8.setForeground(new Color(255, 255, 255));  
  
 //setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  
  
 contentPane.setBackground(new Color(240, 240, 240));  
  
 menuPane.setBackground(new Color(240, 240, 240));  
  
 back\_button.setBackground(new java.awt.Color(102, 102, 102));  
 back\_button.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 back\_button.setText("Close");  
 back\_button.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 back\_buttonActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout menuPaneLayout = new javax.swing.GroupLayout(menuPane);  
 menuPaneLayout.setHorizontalGroup(  
 menuPaneLayout.createParallelGroup(Alignment.TRAILING)  
 .addGroup(Alignment.LEADING, menuPaneLayout.createSequentialGroup()  
 .addGap(21)  
 .addComponent(back\_button, GroupLayout.PREFERRED\_SIZE, 91, GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap(826, Short.MAX\_VALUE))  
 );  
 menuPaneLayout.setVerticalGroup(  
 menuPaneLayout.createParallelGroup(Alignment.TRAILING)  
 .addGroup(menuPaneLayout.createSequentialGroup()  
 .addGap(11)  
 .addComponent(back\_button, GroupLayout.PREFERRED\_SIZE, 50, GroupLayout.PREFERRED\_SIZE))  
 );  
 menuPane.setLayout(menuPaneLayout);  
  
 pending\_sellersPane.setBackground(new Color(240, 240, 240));  
  
 pending\_sellers1.setBackground(new java.awt.Color(255, 255, 255));  
 pending\_sellers1.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  
  
 fname\_lname1.setText("F. Name L. Name");  
  
 account\_type1.setText("Account Type: Seller");  
  
 accept1.setBackground(new java.awt.Color(102, 102, 102));  
 accept1.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 accept1.setText("Accept");  
 accept1.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 accept1ActionPerformed(evt);  
 }  
 });  
  
 decline1.setBackground(new java.awt.Color(102, 102, 102));  
 decline1.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 decline1.setText("Decline");  
 decline1.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 decline1ActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout pending\_sellers1Layout = new javax.swing.GroupLayout(pending\_sellers1);  
 pending\_sellers1.setLayout(pending\_sellers1Layout);  
 pending\_sellers1Layout.setHorizontalGroup(  
 pending\_sellers1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(pending\_sellers1Layout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(fname\_lname1, javax.swing.GroupLayout.PREFERRED\_SIZE, 186, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(account\_type1, javax.swing.GroupLayout.PREFERRED\_SIZE, 191, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(accept1, javax.swing.GroupLayout.PREFERRED\_SIZE, 78, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(decline1, javax.swing.GroupLayout.PREFERRED\_SIZE, 78, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap())  
 );  
 pending\_sellers1Layout.setVerticalGroup(  
 pending\_sellers1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, pending\_sellers1Layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(pending\_sellers1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  
 .addComponent(account\_type1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(fname\_lname1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(accept1, javax.swing.GroupLayout.DEFAULT\_SIZE, 48, Short.MAX\_VALUE)  
 .addComponent(decline1, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addContainerGap())  
 );  
  
 pending\_sellers2.setBackground(new java.awt.Color(255, 255, 255));  
 pending\_sellers2.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  
  
 fname\_lname2.setText("F. Name L. Name");  
  
 account\_type2.setText("Account Type: Seller");  
  
 accept2.setBackground(new java.awt.Color(102, 102, 102));  
 accept2.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 accept2.setText("Accept");  
 accept2.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 accept2ActionPerformed(evt);  
 }  
 });  
  
 decline2.setBackground(new java.awt.Color(102, 102, 102));  
 decline2.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 decline2.setText("Decline");  
 decline2.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 decline2ActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout pending\_sellers2Layout = new javax.swing.GroupLayout(pending\_sellers2);  
 pending\_sellers2.setLayout(pending\_sellers2Layout);  
 pending\_sellers2Layout.setHorizontalGroup(  
 pending\_sellers2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(pending\_sellers2Layout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(fname\_lname2, javax.swing.GroupLayout.PREFERRED\_SIZE, 186, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(account\_type2, javax.swing.GroupLayout.PREFERRED\_SIZE, 191, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 327, Short.MAX\_VALUE)  
 .addComponent(accept2, javax.swing.GroupLayout.PREFERRED\_SIZE, 78, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(decline2, javax.swing.GroupLayout.PREFERRED\_SIZE, 78, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap())  
 );  
 pending\_sellers2Layout.setVerticalGroup(  
 pending\_sellers2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(pending\_sellers2Layout.createSequentialGroup()  
 .addGroup(pending\_sellers2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(account\_type2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addGroup(pending\_sellers2Layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(pending\_sellers2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, pending\_sellers2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
 .addComponent(decline2, javax.swing.GroupLayout.PREFERRED\_SIZE, 48, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addComponent(accept2, javax.swing.GroupLayout.PREFERRED\_SIZE, 48, javax.swing.GroupLayout.PREFERRED\_SIZE))  
 .addComponent(fname\_lname2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))))  
 .addContainerGap())  
 );  
  
 pending\_sellers3.setBackground(new java.awt.Color(255, 255, 255));  
 pending\_sellers3.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  
  
 fname\_lname3.setText("F. Name L. Name");  
  
 account\_type3.setText("Account Type: Seller");  
  
 accept3.setBackground(new java.awt.Color(102, 102, 102));  
 accept3.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 accept3.setText("Accept");  
 accept3.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 accept3ActionPerformed(evt);  
 }  
 });  
  
 decline3.setBackground(new java.awt.Color(102, 102, 102));  
 decline3.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 decline3.setText("Decline");  
 decline3.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 decline3ActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout pending\_sellers3Layout = new javax.swing.GroupLayout(pending\_sellers3);  
 pending\_sellers3.setLayout(pending\_sellers3Layout);  
 pending\_sellers3Layout.setHorizontalGroup(  
 pending\_sellers3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(pending\_sellers3Layout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(fname\_lname3, javax.swing.GroupLayout.PREFERRED\_SIZE, 186, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(account\_type3, javax.swing.GroupLayout.PREFERRED\_SIZE, 191, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(accept3, javax.swing.GroupLayout.PREFERRED\_SIZE, 78, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(decline3, javax.swing.GroupLayout.PREFERRED\_SIZE, 78, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap())  
 );  
 pending\_sellers3Layout.setVerticalGroup(  
 pending\_sellers3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(pending\_sellers3Layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(pending\_sellers3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(fname\_lname3, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(account\_type3, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addGroup(pending\_sellers3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
 .addComponent(accept3, javax.swing.GroupLayout.DEFAULT\_SIZE, 48, Short.MAX\_VALUE)  
 .addComponent(decline3, javax.swing.GroupLayout.DEFAULT\_SIZE, 48, Short.MAX\_VALUE)))  
 .addContainerGap())  
 );  
  
 pending\_sellers4.setBackground(new java.awt.Color(255, 255, 255));  
 pending\_sellers4.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  
  
 fname\_lname4.setText("F. Name L. Name");  
  
 account\_type4.setText("Account Type: Seller");  
  
 accept4.setBackground(new java.awt.Color(102, 102, 102));  
 accept4.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 accept4.setText("Accept");  
 accept4.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 accept4ActionPerformed(evt);  
 }  
 });  
  
 decline4.setBackground(new java.awt.Color(102, 102, 102));  
 decline4.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 decline4.setText("Decline");  
 decline4.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 decline4ActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout pending\_sellers4Layout = new javax.swing.GroupLayout(pending\_sellers4);  
 pending\_sellers4.setLayout(pending\_sellers4Layout);  
 pending\_sellers4Layout.setHorizontalGroup(  
 pending\_sellers4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(pending\_sellers4Layout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(fname\_lname4, javax.swing.GroupLayout.PREFERRED\_SIZE, 186, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(account\_type4, javax.swing.GroupLayout.PREFERRED\_SIZE, 191, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(accept4, javax.swing.GroupLayout.PREFERRED\_SIZE, 78, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(decline4, javax.swing.GroupLayout.PREFERRED\_SIZE, 78, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap())  
 );  
 pending\_sellers4Layout.setVerticalGroup(  
 pending\_sellers4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(pending\_sellers4Layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(pending\_sellers4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(fname\_lname4, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(account\_type4, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addGroup(pending\_sellers4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
 .addComponent(accept4, javax.swing.GroupLayout.DEFAULT\_SIZE, 48, Short.MAX\_VALUE)  
 .addComponent(decline4, javax.swing.GroupLayout.DEFAULT\_SIZE, 48, Short.MAX\_VALUE)))  
 .addContainerGap())  
 );  
  
 pending\_sellers5.setBackground(new java.awt.Color(255, 255, 255));  
 pending\_sellers5.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  
  
 fname\_lname5.setText("F. Name L. Name");  
  
 account\_type5.setText("Account Type: Seller");  
  
 accept5.setBackground(new java.awt.Color(102, 102, 102));  
 accept5.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 accept5.setText("Accept");  
 accept5.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 accept5ActionPerformed(evt);  
 }  
 });  
  
 decline5.setBackground(new java.awt.Color(102, 102, 102));  
 decline5.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 decline5.setText("Decline");  
 decline5.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 decline5ActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout pending\_sellers5Layout = new javax.swing.GroupLayout(pending\_sellers5);  
 pending\_sellers5.setLayout(pending\_sellers5Layout);  
 pending\_sellers5Layout.setHorizontalGroup(  
 pending\_sellers5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(pending\_sellers5Layout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(fname\_lname5, javax.swing.GroupLayout.PREFERRED\_SIZE, 186, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(account\_type5, javax.swing.GroupLayout.PREFERRED\_SIZE, 191, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(accept5, javax.swing.GroupLayout.PREFERRED\_SIZE, 78, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(decline5, javax.swing.GroupLayout.PREFERRED\_SIZE, 78, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap())  
 );  
 pending\_sellers5Layout.setVerticalGroup(  
 pending\_sellers5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(pending\_sellers5Layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(pending\_sellers5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(fname\_lname5, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(account\_type5, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addGroup(pending\_sellers5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
 .addComponent(accept5, javax.swing.GroupLayout.PREFERRED\_SIZE, 48, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addComponent(decline5, javax.swing.GroupLayout.PREFERRED\_SIZE, 48, javax.swing.GroupLayout.PREFERRED\_SIZE)))  
 .addContainerGap())  
 );  
  
 pending\_sellers6.setBackground(new java.awt.Color(255, 255, 255));  
 pending\_sellers6.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  
  
 fname\_lname6.setText("F. Name L. Name");  
  
 account\_type6.setText("Account Type: Seller");  
  
 accept6.setBackground(new java.awt.Color(102, 102, 102));  
 accept6.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 accept6.setText("Accept");  
 accept6.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 accept6ActionPerformed(evt);  
 }  
 });  
  
 decline6.setBackground(new java.awt.Color(102, 102, 102));  
 decline6.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 decline6.setText("Decline");  
 decline6.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 decline6ActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout pending\_sellers6Layout = new javax.swing.GroupLayout(pending\_sellers6);  
 pending\_sellers6.setLayout(pending\_sellers6Layout);  
 pending\_sellers6Layout.setHorizontalGroup(  
 pending\_sellers6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(pending\_sellers6Layout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(fname\_lname6, javax.swing.GroupLayout.PREFERRED\_SIZE, 186, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(account\_type6, javax.swing.GroupLayout.PREFERRED\_SIZE, 191, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(accept6, javax.swing.GroupLayout.PREFERRED\_SIZE, 78, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(decline6, javax.swing.GroupLayout.PREFERRED\_SIZE, 78, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap())  
 );  
 pending\_sellers6Layout.setVerticalGroup(  
 pending\_sellers6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(pending\_sellers6Layout.createSequentialGroup()  
 .addGroup(pending\_sellers6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(account\_type6, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addGroup(pending\_sellers6Layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(pending\_sellers6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(fname\_lname6, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addGroup(pending\_sellers6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
 .addComponent(accept6, javax.swing.GroupLayout.PREFERRED\_SIZE, 48, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addComponent(decline6, javax.swing.GroupLayout.PREFERRED\_SIZE, 48, javax.swing.GroupLayout.PREFERRED\_SIZE)))))  
 .addContainerGap())  
 );  
  
 pending\_sellers7.setBackground(new java.awt.Color(255, 255, 255));  
 pending\_sellers7.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  
  
 fname\_lname7.setText("F. Name L. Name3");  
  
 account\_type7.setText("Account Type: Seller");  
  
 accept7.setBackground(new java.awt.Color(102, 102, 102));  
 accept7.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 accept7.setText("Accept");  
 accept7.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 accept7ActionPerformed(evt);  
 }  
 });  
  
 decline7.setBackground(new java.awt.Color(102, 102, 102));  
 decline7.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 decline7.setText("Decline");  
 decline7.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 decline7ActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout pending\_sellers7Layout = new javax.swing.GroupLayout(pending\_sellers7);  
 pending\_sellers7.setLayout(pending\_sellers7Layout);  
 pending\_sellers7Layout.setHorizontalGroup(  
 pending\_sellers7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(pending\_sellers7Layout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(fname\_lname7, javax.swing.GroupLayout.PREFERRED\_SIZE, 186, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(account\_type7, javax.swing.GroupLayout.PREFERRED\_SIZE, 191, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(accept7, javax.swing.GroupLayout.PREFERRED\_SIZE, 78, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(decline7, javax.swing.GroupLayout.PREFERRED\_SIZE, 78, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap())  
 );  
 pending\_sellers7Layout.setVerticalGroup(  
 pending\_sellers7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(pending\_sellers7Layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(pending\_sellers7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(fname\_lname7, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(account\_type7, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addGroup(pending\_sellers7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
 .addComponent(accept7, javax.swing.GroupLayout.PREFERRED\_SIZE, 48, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addComponent(decline7, javax.swing.GroupLayout.PREFERRED\_SIZE, 48, javax.swing.GroupLayout.PREFERRED\_SIZE)))  
 .addContainerGap())  
 );  
  
 pending\_sellers8.setBackground(new java.awt.Color(255, 255, 255));  
 pending\_sellers8.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  
  
 fname\_lname8.setText("F. Name L. Name");  
  
 account\_type8.setText("Account Type: Seller");  
  
 accept8.setBackground(new java.awt.Color(102, 102, 102));  
 accept8.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 accept8.setText("Accept");  
 accept8.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 accept8ActionPerformed(evt);  
 }  
 });  
  
 decline8.setBackground(new java.awt.Color(102, 102, 102));  
 decline8.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 decline8.setText("Decline");  
 decline8.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 decline8ActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout pending\_sellers8Layout = new javax.swing.GroupLayout(pending\_sellers8);  
 pending\_sellers8.setLayout(pending\_sellers8Layout);  
 pending\_sellers8Layout.setHorizontalGroup(  
 pending\_sellers8Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(pending\_sellers8Layout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(fname\_lname8, javax.swing.GroupLayout.PREFERRED\_SIZE, 186, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(account\_type8, javax.swing.GroupLayout.PREFERRED\_SIZE, 191, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(accept8, javax.swing.GroupLayout.PREFERRED\_SIZE, 78, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(decline8, javax.swing.GroupLayout.PREFERRED\_SIZE, 78, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap())  
 );  
 pending\_sellers8Layout.setVerticalGroup(  
 pending\_sellers8Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(pending\_sellers8Layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(pending\_sellers8Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(fname\_lname8, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(account\_type8, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addGroup(pending\_sellers8Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
 .addComponent(accept8, javax.swing.GroupLayout.PREFERRED\_SIZE, 48, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addComponent(decline8, javax.swing.GroupLayout.PREFERRED\_SIZE, 48, javax.swing.GroupLayout.PREFERRED\_SIZE)))  
 .addContainerGap())  
 );  
  
 javax.swing.GroupLayout pending\_sellersPaneLayout = new javax.swing.GroupLayout(pending\_sellersPane);  
 pending\_sellersPane.setLayout(pending\_sellersPaneLayout);  
 pending\_sellersPaneLayout.setHorizontalGroup(  
 pending\_sellersPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, pending\_sellersPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(pending\_sellersPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  
 .addComponent(pending\_sellers2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(pending\_sellers1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(pending\_sellers3, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(pending\_sellers4, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(pending\_sellers5, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(pending\_sellers6, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(pending\_sellers7, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(pending\_sellers8, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addContainerGap())  
 );  
 pending\_sellersPaneLayout.setVerticalGroup(  
 pending\_sellersPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(pending\_sellersPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(pending\_sellers1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
 .addComponent(pending\_sellers2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
 .addComponent(pending\_sellers3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
 .addComponent(pending\_sellers4, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
 .addComponent(pending\_sellers5, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
 .addComponent(pending\_sellers6, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
 .addComponent(pending\_sellers7, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
 .addComponent(pending\_sellers8, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 );  
  
 javax.swing.GroupLayout contentPaneLayout = new javax.swing.GroupLayout(contentPane);  
 contentPane.setLayout(contentPaneLayout);  
 contentPaneLayout.setHorizontalGroup(  
 contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, contentPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(pending\_sellersPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(menuPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addContainerGap())  
 );  
 contentPaneLayout.setVerticalGroup(  
 contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(menuPane, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(24, 24, 24)  
 .addComponent(pending\_sellersPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addContainerGap())  
 );  
  
 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
 getContentPane().setLayout(layout);  
 layout.setHorizontalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 );  
  
 pack();  
 }// </editor-fold>//GEN-END:initComponents  
  
 private void back\_buttonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_back\_buttonActionPerformed  
 this.setVisible(false);  
 }//GEN-LAST:event\_back\_buttonActionPerformed  
  
 private void decline1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_decline1ActionPerformed  
 if(decline1.getMouseListeners() != null){  
 pending\_sellers1.setVisible(false);  
 }  
 }//GEN-LAST:event\_decline1ActionPerformed  
  
 private void decline3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_decline3ActionPerformed  
 if(decline3.getMouseListeners() != null){  
 pending\_sellers3.setVisible(false);  
 }  
 }//GEN-LAST:event\_decline3ActionPerformed  
  
 private void decline4ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_decline4ActionPerformed  
 if(decline4.getMouseListeners() != null){  
 pending\_sellers4.setVisible(false);  
 }  
 }//GEN-LAST:event\_decline4ActionPerformed  
  
 private void decline5ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_decline5ActionPerformed  
 if(decline5.getMouseListeners() != null){  
 pending\_sellers5.setVisible(false);  
 }  
 }//GEN-LAST:event\_decline5ActionPerformed  
  
 private void decline6ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_decline6ActionPerformed  
 if(decline6.getMouseListeners() != null){  
 pending\_sellers6.setVisible(false);  
 }  
 }//GEN-LAST:event\_decline6ActionPerformed  
  
 private void decline7ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_decline7ActionPerformed  
 if(decline7.getMouseListeners() != null){  
 pending\_sellers7.setVisible(false);  
 }  
 }//GEN-LAST:event\_decline7ActionPerformed  
  
 private void decline8ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_decline8ActionPerformed  
 if(decline8.getMouseListeners() != null){  
 pending\_sellers8.setVisible(false);  
 }  
 }//GEN-LAST:event\_decline8ActionPerformed  
  
 private void accept1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_accept1ActionPerformed  
 if(accept1.getMouseListeners() != null){  
 pending\_sellers1.setVisible(false);  
 }  
 }//GEN-LAST:event\_accept1ActionPerformed  
  
 private void accept2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_accept2ActionPerformed  
 if(accept2.getMouseListeners() != null){  
 pending\_sellers2.setVisible(false);  
 }  
 }//GEN-LAST:event\_accept2ActionPerformed  
  
 private void accept3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_accept3ActionPerformed  
 if(accept3.getMouseListeners() != null){  
 pending\_sellers3.setVisible(false);  
 }  
 }//GEN-LAST:event\_accept3ActionPerformed  
  
 private void accept4ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_accept4ActionPerformed  
 if(accept4.getMouseListeners() != null){  
 pending\_sellers4.setVisible(false);  
 }  
 }//GEN-LAST:event\_accept4ActionPerformed  
  
 private void accept5ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_accept5ActionPerformed  
 if(accept5.getMouseListeners() != null){  
 pending\_sellers5.setVisible(false);  
 }  
 }//GEN-LAST:event\_accept5ActionPerformed  
  
 private void accept6ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_accept6ActionPerformed  
 if(accept6.getMouseListeners() != null){  
 pending\_sellers6.setVisible(false);  
 }  
 }//GEN-LAST:event\_accept6ActionPerformed  
  
 private void accept7ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_accept7ActionPerformed  
 if(accept7.getMouseListeners() != null){  
 pending\_sellers7.setVisible(false);  
 }  
 }//GEN-LAST:event\_accept7ActionPerformed  
  
 private void accept8ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_accept8ActionPerformed  
 if(accept8.getMouseListeners() != null){  
 pending\_sellers8.setVisible(false);  
 }  
 }//GEN-LAST:event\_accept8ActionPerformed  
 private void decline2ActionPerformed(ActionEvent evt){  
 if(decline2.getMouseListeners() != null){  
 pending\_sellers2.setVisible(false);  
 }  
 }  
/\*   
 private void accept1ActionPerformed(ActionEvent evt){  
 if(accept1.getMouseListeners() != null){  
 //pending\_sellers1.add();  
 }  
 }  
\*/  
 /\*\*  
 \* @param args the command line arguments  
 \*/  
 public static void main(String args[]) {  
 /\* Set the Nimbus look and feel \*/  
 //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
 /\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
 \* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html   
 \*/  
 try {  
 for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {  
 if ("Nimbus".equals(info.getName())) {  
 javax.swing.UIManager.setLookAndFeel(info.getClassName());  
 break;  
 }  
 }  
 } catch (ClassNotFoundException ex) {  
 java.util.logging.Logger.getLogger(PendingSellersUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.getLogger(PendingSellersUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.getLogger(PendingSellersUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.getLogger(PendingSellersUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 }  
 //</editor-fold>  
  
 /\* Create and display the form \*/  
 java.awt.EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 new PendingSellersUI().setVisible(true);  
 }  
 });  
 }  
  
 // Variables declaration - do not modify//GEN-BEGIN:variables  
 private javax.swing.JButton accept1;  
 private javax.swing.JButton accept2;  
 private javax.swing.JButton accept3;  
 private javax.swing.JButton accept4;  
 private javax.swing.JButton accept5;  
 private javax.swing.JButton accept6;  
 private javax.swing.JButton accept7;  
 private javax.swing.JButton accept8;  
 private javax.swing.JLabel account\_type1;  
 private javax.swing.JLabel account\_type2;  
 private javax.swing.JLabel account\_type3;  
 private javax.swing.JLabel account\_type4;  
 private javax.swing.JLabel account\_type5;  
 private javax.swing.JLabel account\_type6;  
 private javax.swing.JLabel account\_type7;  
 private javax.swing.JLabel account\_type8;  
 private javax.swing.JButton back\_button;  
 private javax.swing.JPanel contentPane;  
 private javax.swing.JButton decline1;  
 private javax.swing.JButton decline2;  
 private javax.swing.JButton decline3;  
 private javax.swing.JButton decline4;  
 private javax.swing.JButton decline5;  
 private javax.swing.JButton decline6;  
 private javax.swing.JButton decline7;  
 private javax.swing.JButton decline8;  
 private javax.swing.JLabel fname\_lname1;  
 private javax.swing.JLabel fname\_lname2;  
 private javax.swing.JLabel fname\_lname3;  
 private javax.swing.JLabel fname\_lname4;  
 private javax.swing.JLabel fname\_lname5;  
 private javax.swing.JLabel fname\_lname6;  
 private javax.swing.JLabel fname\_lname7;  
 private javax.swing.JLabel fname\_lname8;  
 private javax.swing.JPanel menuPane;  
 private javax.swing.JPanel pending\_sellers1;  
 private javax.swing.JPanel pending\_sellers2;  
 private javax.swing.JPanel pending\_sellers3;  
 private javax.swing.JPanel pending\_sellers4;  
 private javax.swing.JPanel pending\_sellers5;  
 private javax.swing.JPanel pending\_sellers6;  
 private javax.swing.JPanel pending\_sellers7;  
 private javax.swing.JPanel pending\_sellers8;  
 private javax.swing.JPanel pending\_sellersPane;  
 // End of variables declaration//GEN-END:variables  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 // TODO Auto-generated method stub  
   
 }  
   
}

ProductUI.java

/\*  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template  
 \*/  
package pages\_Jeff\_Admin;  
  
/\*\*  
 \*  
 \* @author jeffplatel  
 \*/  
  
 import java.awt.event.\*;  
  
public class ProductUI extends javax.swing.JFrame {  
  
 /\*\*  
 \* Creates new form ProductUI  
 \*/  
 public ProductUI() {  
 initComponents();  
 }  
  
 /\*\*  
 \* This method is called from within the constructor to initialize the form.  
 \* WARNING: Do NOT modify this code. The content of this method is always  
 \* regenerated by the Form Editor.  
 \*/  
 //@SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 contentPane = new javax.swing.JPanel();  
 product\_name = new javax.swing.JLabel();  
 price = new javax.swing.JLabel();  
 jScrollPane1 = new javax.swing.JScrollPane();  
 description = new javax.swing.JTextArea();  
 reviews = new javax.swing.JLabel();  
 review1 = new javax.swing.JPanel();  
 review\_name1 = new javax.swing.JLabel();  
 comment1 = new javax.swing.JLabel();  
 stars1 = new javax.swing.JLabel();  
 delete1 = new javax.swing.JButton();  
 review2 = new javax.swing.JPanel();  
 review\_name2 = new javax.swing.JLabel();  
 comment2 = new javax.swing.JLabel();  
 stars2 = new javax.swing.JLabel();  
 delete2 = new javax.swing.JButton();  
 back\_button = new javax.swing.JButton();  
  
 setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  
  
 contentPane.setBackground(new java.awt.Color(255, 255, 255));  
  
 product\_name.setFont(new java.awt.Font("Helvetica Neue", 1, 18)); // NOI18N  
 product\_name.setText("Product Name");  
  
 price.setText("Price: $XXX.XX");  
  
 description.setColumns(20);  
 description.setRows(5);  
 description.setText("Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.\nUt enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure \ndolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non \nproident, sunt in culpa qui officia deserunt mollit anim id est laborum. Ultrices dui sapien eget mi proin sed libero enim sed. \nHendrerit gravida rutrum quisque non tellus orci ac auctor augue. Sed cras ornare arcu dui vivamus arcu felis. Quis viverra nibh \ncras pulvinar mattis nunc sed blandit libero. Porta lorem mollis aliquam ut. Ante metus dictum at tempor commodo. Neque \naliquam vestibulum morbi blandit cursus risus at ultrices mi. Ligula ullamcorper malesuada proin libero nunc. ");  
 description.setBorder(null);  
 jScrollPane1.setViewportView(description);  
  
 reviews.setFont(new java.awt.Font("Helvetica Neue", 0, 18)); // NOI18N  
 reviews.setText("Reviews");  
  
 review1.setBackground(new java.awt.Color(255, 255, 255));  
 review1.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  
  
 review\_name1.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 review\_name1.setText("First name L.");  
  
 comment1.setText("Placeholder Text");  
  
 stars1.setText("5.0/5.0");  
  
 delete1.setBackground(new java.awt.Color(204, 0, 51));  
 delete1.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 delete1.setText("Delete");  
 delete1.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  
 delete1.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 delete1ActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout review1Layout = new javax.swing.GroupLayout(review1);  
 review1.setLayout(review1Layout);  
 review1Layout.setHorizontalGroup(  
 review1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(review1Layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(review1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
 .addComponent(review\_name1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(comment1, javax.swing.GroupLayout.DEFAULT\_SIZE, 185, Short.MAX\_VALUE))  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addGroup(review1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(delete1, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 135, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addComponent(stars1, javax.swing.GroupLayout.Alignment.TRAILING))  
 .addContainerGap())  
 );  
 review1Layout.setVerticalGroup(  
 review1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(review1Layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(review1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  
 .addGroup(review1Layout.createSequentialGroup()  
 .addComponent(stars1, javax.swing.GroupLayout.PREFERRED\_SIZE, 16, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  
 .addComponent(delete1, javax.swing.GroupLayout.PREFERRED\_SIZE, 45, javax.swing.GroupLayout.PREFERRED\_SIZE))  
 .addGroup(review1Layout.createSequentialGroup()  
 .addComponent(review\_name1, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
 .addComponent(comment1, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)))  
 .addContainerGap())  
 );  
  
 review2.setBackground(new java.awt.Color(255, 255, 255));  
 review2.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  
  
 review\_name2.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 review\_name2.setText("First Name L.");  
  
 comment2.setText("Placeholder Text");  
  
 stars2.setText("4.5/5.0");  
  
 delete2.setBackground(new java.awt.Color(204, 0, 51));  
 delete2.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 delete2.setText("Delete");  
 delete2.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  
 delete2.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 delete2ActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout review2Layout = new javax.swing.GroupLayout(review2);  
 review2.setLayout(review2Layout);  
 review2Layout.setHorizontalGroup(  
 review2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(review2Layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(review2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)  
 .addComponent(comment2, javax.swing.GroupLayout.DEFAULT\_SIZE, 185, Short.MAX\_VALUE)  
 .addComponent(review\_name2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addGroup(review2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(delete2, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 135, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addComponent(stars2, javax.swing.GroupLayout.Alignment.TRAILING))  
 .addContainerGap())  
 );  
 review2Layout.setVerticalGroup(  
 review2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(review2Layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(review2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  
 .addGroup(review2Layout.createSequentialGroup()  
 .addComponent(review\_name2, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(comment2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addGroup(review2Layout.createSequentialGroup()  
 .addComponent(stars2)  
 .addGap(18, 18, 18)  
 .addComponent(delete2, javax.swing.GroupLayout.PREFERRED\_SIZE, 50, javax.swing.GroupLayout.PREFERRED\_SIZE)))  
 .addContainerGap())  
 );  
  
 back\_button.setBackground(new java.awt.Color(102, 102, 102));  
 back\_button.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 back\_button.setText("Back");  
 back\_button.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  
  
 javax.swing.GroupLayout contentPaneLayout = new javax.swing.GroupLayout(contentPane);  
 contentPane.setLayout(contentPaneLayout);  
 contentPaneLayout.setHorizontalGroup(  
 contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(review1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(reviews, javax.swing.GroupLayout.PREFERRED\_SIZE, 113, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addComponent(price, javax.swing.GroupLayout.PREFERRED\_SIZE, 152, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)  
 .addGroup(javax.swing.GroupLayout.Alignment.LEADING, contentPaneLayout.createSequentialGroup()  
 .addComponent(product\_name, javax.swing.GroupLayout.PREFERRED\_SIZE, 250, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(back\_button, javax.swing.GroupLayout.PREFERRED\_SIZE, 80, javax.swing.GroupLayout.PREFERRED\_SIZE))  
 .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 781, javax.swing.GroupLayout.PREFERRED\_SIZE)))  
 .addGap(0, 8, Short.MAX\_VALUE))  
 .addComponent(review2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addContainerGap())  
 );  
 contentPaneLayout.setVerticalGroup(  
 contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
 .addComponent(back\_button, javax.swing.GroupLayout.DEFAULT\_SIZE, 43, Short.MAX\_VALUE)  
 .addComponent(product\_name, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
 .addComponent(price, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
 .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 138, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(reviews, javax.swing.GroupLayout.PREFERRED\_SIZE, 40, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  
 .addComponent(review1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
 .addComponent(review2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 );  
  
 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
 getContentPane().setLayout(layout);  
 layout.setHorizontalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 );  
  
 pack();  
 }// </editor-fold>//GEN-END:initComponents  
  
 private void delete1ActionPerformed(ActionEvent evt){  
 if(delete1.getMouseListeners() != null){  
 review1.setVisible(false);  
 }  
 }  
 private void delete2ActionPerformed(ActionEvent evt){  
 if(delete2.getMouseListeners() != null){  
 review2.setVisible(false);  
 }  
 }  
  
  
 /\*\*  
 \* @param args the command line arguments  
 \*/  
 public static void main(String args[]) {  
 /\* Set the Nimbus look and feel \*/  
 //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
 /\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
 \* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html   
 \*/  
 try {  
 for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {  
 if ("Nimbus".equals(info.getName())) {  
 javax.swing.UIManager.setLookAndFeel(info.getClassName());  
 break;  
 }  
 }  
 } catch (ClassNotFoundException ex) {  
 java.util.logging.Logger.getLogger(ProductUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.getLogger(ProductUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.getLogger(ProductUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.getLogger(ProductUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 }  
 //</editor-fold>  
  
 /\* Create and display the form \*/  
 java.awt.EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 new ProductUI().setVisible(true);  
 }  
 });  
 }  
  
 // Variables declaration - do not modify//GEN-BEGIN:variables  
 private javax.swing.JButton back\_button;  
 private javax.swing.JLabel comment1;  
 private javax.swing.JLabel comment2;  
 private javax.swing.JPanel contentPane;  
 private javax.swing.JButton delete1;  
 private javax.swing.JButton delete2;  
 private javax.swing.JTextArea description;  
 private javax.swing.JScrollPane jScrollPane1;  
 private javax.swing.JLabel price;  
 private javax.swing.JLabel product\_name;  
 private javax.swing.JPanel review1;  
 private javax.swing.JPanel review2;  
 private javax.swing.JLabel review\_name1;  
 private javax.swing.JLabel review\_name2;  
 private javax.swing.JLabel reviews;  
 private javax.swing.JLabel stars1;  
 private javax.swing.JLabel stars2;  
 // End of variables declaration//GEN-END:variables  
}

Refund.java

/\*  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template  
 \*/  
package pages\_Jeff\_Admin;  
  
/\*\*  
 \*  
 \* @author jeffplatel  
 \*/  
  
 import javax.swing.\*;  
 import javax.swing.JOptionPane;  
  
public class Refund {  
 Refund(){  
 JFrame frame = new JFrame();  
 JOptionPane.showMessageDialog(frame, "Order cancelled. Refund wil be given.");  
 }  
 public static void main(String[] args) {  
 new Refund();   
 }  
}

SellersProductUI.java

/\*  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template  
 \*/  
package pages\_Jeff\_Admin;  
  
import java.awt.Color;  
import java.awt.Dimension;  
import java.awt.Font;  
import java.awt.event.ActionEvent;  
import java.awt.event.ActionListener;  
import java.awt.event.WindowAdapter;  
import java.awt.event.WindowEvent;  
import java.util.List;  
  
import datebase\_jon.Product;  
import datebase\_jon.ShopletSystemManager;  
import datebase\_jon.User;  
import net.miginfocom.swing.MigLayout;  
import pages\_Jeff\_Seller.ProductUI;  
  
import javax.swing.GroupLayout.Alignment;  
import javax.swing.BorderFactory;  
import javax.swing.GroupLayout;  
import javax.swing.JButton;  
import javax.swing.JLabel;  
import javax.swing.JPanel;  
import javax.swing.LayoutStyle.ComponentPlacement;  
import javax.swing.border.Border;  
import javax.swing.BoxLayout;  
  
/\*\*  
 \*  
 \* @author jeffplatel  
 \*/  
public class SellerProductUI extends javax.swing.JFrame {  
  
 /\*\*  
 \* Creates new form SellerProductUI  
 \*/  
 public SellerProductUI(User user) {  
 setTitle("Seller Products");  
 this.user = user;  
   
 addWindowListener(new WindowAdapter() {  
 @Override  
 public void windowActivated(WindowEvent e) {  
 // Update cart text button when user focuses on window.  
 System.out.println("Product list refreshed");  
 refreshProductsList();  
 }  
 });  
   
 initComponents();  
 }  
   
 User user;  
  
 /\*\*  
 \* This method is called from within the constructor to initialize the form.  
 \* WARNING: Do NOT modify this code. The content of this method is always  
 \* regenerated by the Form Editor.  
 \*/  
 //@SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 contentPane = new javax.swing.JPanel();  
 back\_button = new javax.swing.JButton();  
 back\_button.setForeground(new Color(255, 255, 255));  
 product\_listPane = new javax.swing.JPanel();  
  
 contentPane.setBackground(new Color(240, 240, 240));  
  
 back\_button.setBackground(new java.awt.Color(102, 102, 102));  
 back\_button.setFont(new java.awt.Font("Helvetica Neue", 1, 12)); // NOI18N  
 back\_button.setText("Close");  
 back\_button.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 setVisible(false);  
 }  
 });  
  
 product\_listPane.setBackground(new Color(240, 240, 240));  
  
 javax.swing.GroupLayout contentPaneLayout = new javax.swing.GroupLayout(contentPane);  
 contentPaneLayout.setHorizontalGroup(  
 contentPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(contentPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addComponent(product\_listPane, GroupLayout.PREFERRED\_SIZE, 515, GroupLayout.PREFERRED\_SIZE)  
 .addComponent(back\_button, GroupLayout.PREFERRED\_SIZE, 67, GroupLayout.PREFERRED\_SIZE))  
 .addContainerGap(GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 );  
 contentPaneLayout.setVerticalGroup(  
 contentPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(back\_button, GroupLayout.PREFERRED\_SIZE, 35, GroupLayout.PREFERRED\_SIZE)  
 .addGap(18)  
 .addComponent(product\_listPane, GroupLayout.PREFERRED\_SIZE, 416, GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap(GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 );  
 contentPane.setLayout(contentPaneLayout);  
 product\_listPane.setLayout(new BoxLayout(product\_listPane, BoxLayout.X\_AXIS));  
  
 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
 getContentPane().setLayout(layout);  
 layout.setHorizontalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 );  
   
 product\_listPane.setLayout(new BoxLayout(product\_listPane, BoxLayout.Y\_AXIS));  
   
 //Products  
 List<Product> products = ShopletSystemManager.getInstance().get\_list\_of\_own\_products(user.user\_id);  
   
 for (int i = 0; i < products.size(); i++)  
 {  
 product\_listPane.add(ProductItem(products.get(i).product\_id ,products.get(i).name, products.get(i).price, products.get(i).description), "span, growx");  
 }  
  
  
 pack();  
 }// </editor-fold>//GEN-END:initComponents  
   
 public void refreshProductsList()  
 {  
 product\_listPane.removeAll();  
   
 //Products for Sellers  
 List<Product> products = ShopletSystemManager.getInstance().get\_list\_of\_own\_products(user.user\_id);  
   
 for (int i = 0; i < products.size(); i++)  
 {  
 product\_listPane.add(ProductItem(products.get(i).product\_id ,products.get(i).name, products.get(i).price, products.get(i).description), "span, growx");  
 }  
   
 product\_listPane.revalidate();  
 product\_listPane.repaint();   
 }  
  
   
 /\*\*  
 \* The JPanel object that represents a product item entry in the product catalog.  
 \* @param productName The name of the product to show  
 \* @param productPrice The price of the product to show  
 \* @return  
 \*/  
 public JPanel ProductItem(Integer productId,String productName, Integer productPrice, String productDescription)  
 {  
 Product product = new Product(productId, productName, productPrice, productDescription, true, 1, false);  
   
 // Convert price to 2 decimal places  
 Border border = BorderFactory.createLineBorder(Color.black);  
  
 // Build product entry  
 JPanel newProductPanel = new JPanel(new MigLayout("", "[][]push[][]15", "[]"));  
 newProductPanel.setPreferredSize(new Dimension(1000, 60));  
 newProductPanel.setMaximumSize(new Dimension(1000, 60));  
 newProductPanel.setBackground(Color.white);  
   
 JLabel productLabel = new JLabel(productName);  
 productLabel.setFont(new Font("Arial", Font.PLAIN, 28));  
 productLabel.setMaximumSize(new Dimension(200, 100));  
   
 newProductPanel.add(productLabel);  
 newProductPanel.add(new JLabel("Cost: $" + productPrice)).setFont(new Font("Arial", Font.PLAIN, 16));  
   
 JButton viewProduct = new JButton("View Product");  
 viewProduct.addActionListener(new ActionListener() {  
 public void actionPerformed(ActionEvent e) {  
 ProductUI obj = new ProductUI(product);  
 obj.setVisible(true);  
 }  
 });  
   
 newProductPanel.add(viewProduct);  
 newProductPanel.setBorder(border);  
  
 // Return the product panel  
 return newProductPanel;  
 }  
   
  
 /\*\*  
 \* @param args the command line arguments  
 \*/  
 public static void main(String args[]) {  
 /\* Set the Nimbus look and feel \*/  
 //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
 /\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
 \* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html   
 \*/  
 try {  
 for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {  
 if ("Nimbus".equals(info.getName())) {  
 javax.swing.UIManager.setLookAndFeel(info.getClassName());  
 break;  
 }  
 }  
 } catch (ClassNotFoundException ex) {  
 java.util.logging.Logger.getLogger(SellerProductUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.getLogger(SellerProductUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.getLogger(SellerProductUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.getLogger(SellerProductUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 }  
 //</editor-fold>  
  
 /\* Create and display the form \*/  
 java.awt.EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 new SellerProductUI(new User()).setVisible(true);  
 }  
 });  
 }  
  
 // Variables declaration - do not modify//GEN-BEGIN:variables  
 private javax.swing.JButton back\_button;  
 private javax.swing.JPanel contentPane;  
 private javax.swing.JPanel product\_listPane;  
 // End of variables declaration//GEN-END:variables  
}

SuccessUI.java

/\*  
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 \* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template  
 \*/  
package pages\_Jeff\_Admin;  
  
/\*\*  
 \*  
 \* @author jeffplatel  
 \*/  
public class SuccessUI extends javax.swing.JFrame {  
  
 /\*\*  
 \* Creates new form Success  
 \*/  
 public SuccessUI() {  
 initComponents();  
 }  
  
 /\*\*  
 \* This method is called from within the constructor to initialize the form.  
 \* WARNING: Do NOT modify this code. The content of this method is always  
 \* regenerated by the Form Editor.  
 \*/  
 //@SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 contentPane = new javax.swing.JPanel();  
 jLabel1 = new javax.swing.JLabel();  
 jLabel2 = new javax.swing.JLabel();  
 back\_button = new javax.swing.JButton();  
  
 setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  
  
 contentPane.setBackground(new java.awt.Color(255, 255, 255));  
  
 jLabel1.setBackground(new java.awt.Color(255, 255, 255));  
 jLabel1.setFont(new java.awt.Font("Helvetica Neue", 1, 18)); // NOI18N  
 jLabel1.setText("Account Created Successfully!");  
  
 jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/com/mycompany/cop4331/project\_final/check.jpeg"))); // NOI18N  
  
 back\_button.setBackground(new java.awt.Color(102, 102, 102));  
 back\_button.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 back\_button.setText("Back");  
 back\_button.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  
 back\_button.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 AdminPanelUI obj = new AdminPanelUI();  
 obj.setVisible(true);  
 }  
 });  
  
 javax.swing.GroupLayout contentPaneLayout = new javax.swing.GroupLayout(contentPane);  
 contentPane.setLayout(contentPaneLayout);  
 contentPaneLayout.setHorizontalGroup(  
 contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addContainerGap(166, Short.MAX\_VALUE)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, contentPaneLayout.createSequentialGroup()  
 .addComponent(jLabel1)  
 .addGap(160, 160, 160))  
 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, contentPaneLayout.createSequentialGroup()  
 .addComponent(jLabel2)  
 .addGap(230, 230, 230))  
 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, contentPaneLayout.createSequentialGroup()  
 .addComponent(back\_button, javax.swing.GroupLayout.PREFERRED\_SIZE, 92, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(254, 254, 254))))  
 );  
 contentPaneLayout.setVerticalGroup(  
 contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, contentPaneLayout.createSequentialGroup()  
 .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(jLabel2)  
 .addGap(18, 18, 18)  
 .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 67, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
 .addComponent(back\_button, javax.swing.GroupLayout.PREFERRED\_SIZE, 38, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(114, 114, 114))  
 );  
  
 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
 getContentPane().setLayout(layout);  
 layout.setHorizontalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.PREFERRED\_SIZE, 275, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 );  
  
 pack();  
 }// </editor-fold>//GEN-END:initComponents  
  
 /\*\*  
 \* @param args the command line arguments  
 \*/  
 public static void main(String args[]) {  
 /\* Set the Nimbus look and feel \*/  
 //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
 /\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
 \* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html   
 \*/  
 try {  
 for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {  
 if ("Nimbus".equals(info.getName())) {  
 javax.swing.UIManager.setLookAndFeel(info.getClassName());  
 break;  
 }  
 }  
 } catch (ClassNotFoundException ex) {  
 java.util.logging.Logger.getLogger(SuccessUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.getLogger(SuccessUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.getLogger(SuccessUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.getLogger(SuccessUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 }  
 //</editor-fold>  
 //</editor-fold>  
  
 /\* Create and display the form \*/  
 java.awt.EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 new SuccessUI().setVisible(true);  
 }  
 });  
 }  
  
 // Variables declaration - do not modify//GEN-BEGIN:variables  
 private javax.swing.JButton back\_button;  
 private javax.swing.JPanel contentPane;  
 private javax.swing.JLabel jLabel1;  
 private javax.swing.JLabel jLabel2;  
 // End of variables declaration//GEN-END:variables  
}

UserExistUI.java

/\*  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template  
 \*/  
package pages\_Jeff\_Admin;  
  
/\*\*  
 \*  
 \* @author jeffplatel  
 \*/  
public class UserExistUI extends javax.swing.JFrame {  
  
 /\*\*  
 \* Creates new form UserExistUI  
 \*/  
 public UserExistUI() {  
 initComponents();  
 }  
  
 /\*\*  
 \* This method is called from within the constructor to initialize the form.  
 \* WARNING: Do NOT modify this code. The content of this method is always  
 \* regenerated by the Form Editor.  
 \*/  
 // @SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 contentPane = new javax.swing.JPanel();  
 x\_logo = new javax.swing.JLabel();  
 error\_message = new javax.swing.JLabel();  
 try\_again = new javax.swing.JButton();  
  
 setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  
  
 contentPane.setBackground(new java.awt.Color(255, 255, 255));  
  
 x\_logo.setIcon(new javax.swing.ImageIcon(getClass().getResource("/com/mycompany/cop4331/project\_final/x.jpg"))); // NOI18N  
  
 error\_message.setFont(new java.awt.Font("Helvetica Neue", 1, 14)); // NOI18N  
 error\_message.setText("User already exists.");  
  
 try\_again.setBackground(new java.awt.Color(102, 102, 102));  
 try\_again.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 try\_again.setText("Try Again");  
 try\_again.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  
 try\_again.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 CreateNewUserUI obj = new CreateNewUserUI();  
 obj.setVisible(true);  
 }  
 });  
  
 javax.swing.GroupLayout contentPaneLayout = new javax.swing.GroupLayout(contentPane);  
 contentPane.setLayout(contentPaneLayout);  
 contentPaneLayout.setHorizontalGroup(  
 contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGap(170, 170, 170)  
 .addComponent(x\_logo)  
 .addGap(44, 44, 44)  
 .addComponent(error\_message, javax.swing.GroupLayout.PREFERRED\_SIZE, 142, javax.swing.GroupLayout.PREFERRED\_SIZE))  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGap(230, 230, 230)  
 .addComponent(try\_again, javax.swing.GroupLayout.PREFERRED\_SIZE, 101, javax.swing.GroupLayout.PREFERRED\_SIZE)))  
 .addContainerGap(145, Short.MAX\_VALUE))  
 );  
 contentPaneLayout.setVerticalGroup(  
 contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGap(66, 66, 66)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(x\_logo)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGap(17, 17, 17)  
 .addComponent(error\_message, javax.swing.GroupLayout.PREFERRED\_SIZE, 41, javax.swing.GroupLayout.PREFERRED\_SIZE)))  
 .addGap(41, 41, 41)  
 .addComponent(try\_again, javax.swing.GroupLayout.PREFERRED\_SIZE, 43, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap(41, Short.MAX\_VALUE))  
 );  
  
 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
 getContentPane().setLayout(layout);  
 layout.setHorizontalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 );  
  
 pack();  
 }// </editor-fold>//GEN-END:initComponents  
  
 /\*\*  
 \* @param args the command line arguments  
 \*/  
 public static void main(String args[]) {  
 /\* Set the Nimbus look and feel \*/  
 //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
 /\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
 \* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html   
 \*/  
 try {  
 for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {  
 if ("Nimbus".equals(info.getName())) {  
 javax.swing.UIManager.setLookAndFeel(info.getClassName());  
 break;  
 }  
 }  
 } catch (ClassNotFoundException ex) {  
 java.util.logging.Logger.getLogger(UserExistUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.getLogger(UserExistUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.getLogger(UserExistUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.getLogger(UserExistUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 }  
 //</editor-fold>  
  
 /\* Create and display the form \*/  
 java.awt.EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 new UserExistUI().setVisible(true);  
 }  
 });  
 }  
  
 // Variables declaration - do not modify//GEN-BEGIN:variables  
 private javax.swing.JPanel contentPane;  
 private javax.swing.JLabel error\_message;  
 private javax.swing.JButton try\_again;  
 private javax.swing.JLabel x\_logo;  
 // End of variables declaration//GEN-END:variables  
}

AddProductUI.java

/\*  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template  
 \*/  
package pages\_Jeff\_Seller;  
  
/\*\*  
 \*  
 \* @author jeffplatel  
 \*/  
import javax.swing.\*;  
  
import datebase\_jon.ShopletSystemManager;  
  
import java.awt.Color;  
public class AddProductUI extends javax.swing.JFrame {  
  
 SellersPanelUI sellersPanel;  
   
 /\*\*  
 \* Creates a new add product UI component  
 \* @param sellersPanel The sellers panel parent UI object  
 \*/  
 public AddProductUI(SellersPanelUI sellersPanel) {  
 setTitle("Add Product");  
 this.sellersPanel = sellersPanel;  
 initComponents();  
 }  
  
 /\*\*  
 \* This method is called from within the constructor to initialize the form.  
 \* WARNING: Do NOT modify this code. The content of this method is always  
 \* regenerated by the Form Editor.  
 \*/  
 //@SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 contentPane = new javax.swing.JPanel();  
 product\_name = new javax.swing.JLabel();  
 price = new javax.swing.JLabel();  
 quantity = new javax.swing.JLabel();  
 description = new javax.swing.JLabel();  
 product\_name\_text = new javax.swing.JTextField();  
 price\_text = new javax.swing.JTextField();  
 quantity\_text = new javax.swing.JTextField();  
 description\_text = new javax.swing.JTextField();  
 create\_button = new javax.swing.JButton();  
 create\_button.setForeground(Color.WHITE);  
 cancel\_button = new javax.swing.JButton();  
 cancel\_button.setForeground(Color.WHITE);  
  
 contentPane.setBackground(new Color(240, 240, 240));  
  
 product\_name.setText("Product Name:");  
  
 price.setText("Price:");  
  
 quantity.setText("Quantity:");  
  
 description.setText("Description:");  
  
 create\_button.setBackground(new java.awt.Color(102, 102, 102));  
 create\_button.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 create\_button.setText("Create");  
 create\_button.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 create\_buttonActionPerformed(evt);  
 }  
 });  
  
 cancel\_button.setBackground(new java.awt.Color(102, 102, 102));  
 cancel\_button.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 cancel\_button.setText("Cancel");  
 cancel\_button.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 cancel\_buttonActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout contentPaneLayout = new javax.swing.GroupLayout(contentPane);  
 contentPane.setLayout(contentPaneLayout);  
 contentPaneLayout.setHorizontalGroup(  
 contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, contentPaneLayout.createSequentialGroup()  
 .addGap(69, 69, 69)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
 .addComponent(description, javax.swing.GroupLayout.DEFAULT\_SIZE, 163, Short.MAX\_VALUE)  
 .addComponent(quantity, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(price, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(product\_name, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addComponent(cancel\_button, javax.swing.GroupLayout.PREFERRED\_SIZE, 115, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(create\_button, javax.swing.GroupLayout.PREFERRED\_SIZE, 115, javax.swing.GroupLayout.PREFERRED\_SIZE))  
 .addComponent(description\_text, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, 352, Short.MAX\_VALUE)  
 .addComponent(quantity\_text, javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(price\_text, javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(product\_name\_text, javax.swing.GroupLayout.Alignment.LEADING))  
 .addGap(25, 25, 25))  
 );  
 contentPaneLayout.setVerticalGroup(  
 contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGap(56, 56, 56)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
 .addComponent(product\_name\_text, javax.swing.GroupLayout.DEFAULT\_SIZE, 40, Short.MAX\_VALUE)  
 .addComponent(product\_name, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addGap(18, 18, 18)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
 .addComponent(price\_text, javax.swing.GroupLayout.DEFAULT\_SIZE, 40, Short.MAX\_VALUE)  
 .addComponent(price, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addGap(18, 18, 18)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
 .addComponent(quantity\_text, javax.swing.GroupLayout.DEFAULT\_SIZE, 38, Short.MAX\_VALUE)  
 .addComponent(quantity, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addGap(18, 18, 18)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(description, javax.swing.GroupLayout.PREFERRED\_SIZE, 40, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addComponent(description\_text, javax.swing.GroupLayout.PREFERRED\_SIZE, 90, javax.swing.GroupLayout.PREFERRED\_SIZE))  
 .addGap(18, 18, 18)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
 .addComponent(create\_button, javax.swing.GroupLayout.DEFAULT\_SIZE, 40, Short.MAX\_VALUE)  
 .addComponent(cancel\_button, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addContainerGap(34, Short.MAX\_VALUE))  
 );  
  
 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
 getContentPane().setLayout(layout);  
 layout.setHorizontalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 );  
  
 pack();  
 }// </editor-fold>//GEN-END:initComponents  
  
 private void create\_buttonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_create\_buttonActionPerformed  
 boolean match = false;  
 if(String.valueOf(product\_name\_text.getText()).isEmpty()){  
 if(String.valueOf(price\_text.getText()).isEmpty()){  
 if(String.valueOf(quantity\_text.getText()).isEmpty()){  
 if(String.valueOf(description\_text.getText()).isEmpty()){  
 match = false;  
 JFrame frame = new JFrame();  
 JOptionPane.showMessageDialog(frame, "You left a field empty!");  
 }  
 }  
 }  
 }  
 else {  
 match = true;  
 JFrame frame = new JFrame();  
 JOptionPane.showMessageDialog(frame, "Item successfully added.");  
 ShopletSystemManager.getInstance().add\_product(product\_name\_text.getText(), description\_text.getText(), Integer.parseInt(price\_text.getText()), 0, ShopletSystemManager.getInstance().current\_user\_id);  
 this.setVisible(false);  
 sellersPanel.refreshProductList();  
   
 //ShopletSystemManager.getInstance().add\_product(product\_name\_text.getText(), price\_text.getText(), String.valueOf(quantity\_text.getText()), String.valueOf(description\_text.getText()), match);  
 }  
 }//GEN-LAST:event\_create\_buttonActionPerformed  
  
 private void cancel\_buttonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_cancel\_buttonActionPerformed  
 this.setVisible(false);  
 JFrame frame = new JFrame();  
 JOptionPane.showMessageDialog(frame, "Creation cancelled. No product was created.");  
 }//GEN-LAST:event\_cancel\_buttonActionPerformed  
  
 /\*\*  
 \* @param args the command line arguments  
 \*/  
 public static void main(String args[]) {  
 /\* Set the Nimbus look and feel \*/  
 //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
 /\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
 \* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html   
 \*/  
 try {  
 for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {  
 if ("Nimbus".equals(info.getName())) {  
 javax.swing.UIManager.setLookAndFeel(info.getClassName());  
 break;  
 }  
 }  
 } catch (ClassNotFoundException ex) {  
 java.util.logging.Logger.getLogger(AddProductUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.getLogger(AddProductUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.getLogger(AddProductUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.getLogger(AddProductUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 }  
 //</editor-fold>  
 //</editor-fold>  
  
 /\* Create and display the form \*/  
 java.awt.EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 new AddProductUI(new SellersPanelUI()).setVisible(true);  
 }  
 });  
 }  
  
 // Variables declaration - do not modify//GEN-BEGIN:variables  
 private javax.swing.JButton cancel\_button;  
 private javax.swing.JPanel contentPane;  
 private javax.swing.JButton create\_button;  
 private javax.swing.JLabel description;  
 private javax.swing.JTextField description\_text;  
 private javax.swing.JLabel price;  
 private javax.swing.JTextField price\_text;  
 private javax.swing.JLabel product\_name;  
 private javax.swing.JTextField product\_name\_text;  
 private javax.swing.JLabel quantity;  
 private javax.swing.JTextField quantity\_text;  
 // End of variables declaration//GEN-END:variables  
}

CatalogUI.java

/\*  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template  
 \*/  
package pages\_Jeff\_Seller;  
import java.awt.Color;  
  
import datebase\_jon.Product;  
  
/\*\*  
 \*  
 \* @author jeffplatel  
 \*/  
//import javax.swing.\*;  
public class CatalogUI extends javax.swing.JFrame {  
  
 /\*\*  
 \* Creates new form CatalogUI  
 \*/  
 public CatalogUI() {  
 setTitle("Your Seller Products");  
 initComponents();  
 }  
  
 /\*\*  
 \* This method is called from within the constructor to initialize the form.  
 \* WARNING: Do NOT modify this code. The content of this method is always  
 \* regenerated by the Form Editor.  
 \*/  
 //@SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 contentPane = new javax.swing.JPanel();  
 back\_button = new javax.swing.JButton();  
 back\_button.setForeground(new Color(255, 255, 255));  
 product1 = new javax.swing.JPanel();  
 view1 = new javax.swing.JButton();  
 view1.setForeground(new Color(255, 255, 255));  
 product\_name1 = new javax.swing.JLabel();  
 cost1 = new javax.swing.JLabel();  
 product2 = new javax.swing.JPanel();  
 view2 = new javax.swing.JButton();  
 view2.setForeground(new Color(255, 255, 255));  
 product\_name2 = new javax.swing.JLabel();  
 cost2 = new javax.swing.JLabel();  
 product3 = new javax.swing.JPanel();  
 view3 = new javax.swing.JButton();  
 view3.setForeground(new Color(255, 255, 255));  
 product\_name3 = new javax.swing.JLabel();  
 cost3 = new javax.swing.JLabel();  
 product4 = new javax.swing.JPanel();  
 view4 = new javax.swing.JButton();  
 view4.setForeground(new Color(255, 255, 255));  
 product\_name4 = new javax.swing.JLabel();  
 cost4 = new javax.swing.JLabel();  
 product5 = new javax.swing.JPanel();  
 view5 = new javax.swing.JButton();  
 view5.setForeground(new Color(255, 255, 255));  
 product\_name5 = new javax.swing.JLabel();  
 cost5 = new javax.swing.JLabel();  
 product6 = new javax.swing.JPanel();  
 view6 = new javax.swing.JButton();  
 view6.setForeground(new Color(255, 255, 255));  
 product\_name6 = new javax.swing.JLabel();  
 cost6 = new javax.swing.JLabel();  
 product7 = new javax.swing.JPanel();  
 view7 = new javax.swing.JButton();  
 view7.setForeground(new Color(255, 255, 255));  
 product\_name7 = new javax.swing.JLabel();  
 cost7 = new javax.swing.JLabel();  
 product8 = new javax.swing.JPanel();  
 view8 = new javax.swing.JButton();  
 view8.setForeground(new Color(255, 255, 255));  
 product\_name8 = new javax.swing.JLabel();  
 cost8 = new javax.swing.JLabel();  
  
 contentPane.setBackground(new Color(240, 240, 240));  
  
 back\_button.setBackground(new java.awt.Color(102, 102, 102));  
 back\_button.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 back\_button.setText("Back");  
 back\_button.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 back\_buttonActionPerformed(evt);  
 }  
 });  
  
 product1.setBackground(new java.awt.Color(255, 255, 255));  
 product1.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  
  
 view1.setBackground(new java.awt.Color(102, 102, 102));  
 view1.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 view1.setText("View");  
 view1.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 view1ActionPerformed(evt);  
 }  
 });  
  
 product\_name1.setText("Poduct Name");  
  
 cost1.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 cost1.setText("Cost: XXX.XX");  
  
 javax.swing.GroupLayout product1Layout = new javax.swing.GroupLayout(product1);  
 product1.setLayout(product1Layout);  
 product1Layout.setHorizontalGroup(  
 product1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, product1Layout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(product\_name1, javax.swing.GroupLayout.PREFERRED\_SIZE, 182, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(cost1)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 440, Short.MAX\_VALUE)  
 .addComponent(view1, javax.swing.GroupLayout.PREFERRED\_SIZE, 80, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap())  
 );  
 product1Layout.setVerticalGroup(  
 product1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(product1Layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(product1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
 .addComponent(view1, javax.swing.GroupLayout.DEFAULT\_SIZE, 48, Short.MAX\_VALUE)  
 .addComponent(product\_name1)  
 .addComponent(cost1))  
 .addContainerGap())  
 );  
  
 product2.setBackground(new java.awt.Color(255, 255, 255));  
 product2.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  
  
 view2.setBackground(new java.awt.Color(102, 102, 102));  
 view2.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 view2.setText("View");  
 view2.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 view2ActionPerformed(evt);  
 }  
 });  
  
 product\_name2.setText("Product Name");  
  
 cost2.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 cost2.setText("Cost: XXX.XX");  
  
 javax.swing.GroupLayout product2Layout = new javax.swing.GroupLayout(product2);  
 product2.setLayout(product2Layout);  
 product2Layout.setHorizontalGroup(  
 product2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, product2Layout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(product\_name2, javax.swing.GroupLayout.PREFERRED\_SIZE, 182, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(cost2)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(view2, javax.swing.GroupLayout.PREFERRED\_SIZE, 80, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap())  
 );  
 product2Layout.setVerticalGroup(  
 product2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(product2Layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(product2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
 .addComponent(view2, javax.swing.GroupLayout.DEFAULT\_SIZE, 50, Short.MAX\_VALUE)  
 .addComponent(product\_name2)  
 .addComponent(cost2))  
 .addContainerGap())  
 );  
  
 product3.setBackground(new java.awt.Color(255, 255, 255));  
 product3.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  
  
 view3.setBackground(new java.awt.Color(102, 102, 102));  
 view3.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 view3.setText("View");  
 view3.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 view3ActionPerformed(evt);  
 }  
 });  
  
 product\_name3.setText("Product Name");  
  
 cost3.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 cost3.setText("Cost: XXX.XX");  
  
 javax.swing.GroupLayout product3Layout = new javax.swing.GroupLayout(product3);  
 product3.setLayout(product3Layout);  
 product3Layout.setHorizontalGroup(  
 product3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, product3Layout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(product\_name3, javax.swing.GroupLayout.PREFERRED\_SIZE, 182, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(cost3)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(view3, javax.swing.GroupLayout.PREFERRED\_SIZE, 80, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap())  
 );  
 product3Layout.setVerticalGroup(  
 product3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(product3Layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(product3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
 .addComponent(view3, javax.swing.GroupLayout.DEFAULT\_SIZE, 48, Short.MAX\_VALUE)  
 .addComponent(product\_name3)  
 .addComponent(cost3))  
 .addContainerGap())  
 );  
  
 product4.setBackground(new java.awt.Color(255, 255, 255));  
 product4.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  
  
 view4.setBackground(new java.awt.Color(102, 102, 102));  
 view4.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 view4.setText("View");  
 view4.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 view4ActionPerformed(evt);  
 }  
 });  
  
 product\_name4.setText("Product Name");  
  
 cost4.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 cost4.setText("Cost: XXX.XX");  
  
 javax.swing.GroupLayout product4Layout = new javax.swing.GroupLayout(product4);  
 product4.setLayout(product4Layout);  
 product4Layout.setHorizontalGroup(  
 product4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, product4Layout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(product\_name4, javax.swing.GroupLayout.PREFERRED\_SIZE, 182, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(cost4)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(view4, javax.swing.GroupLayout.PREFERRED\_SIZE, 80, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap())  
 );  
 product4Layout.setVerticalGroup(  
 product4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(product4Layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(product4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
 .addComponent(view4, javax.swing.GroupLayout.DEFAULT\_SIZE, 48, Short.MAX\_VALUE)  
 .addComponent(product\_name4)  
 .addComponent(cost4))  
 .addContainerGap())  
 );  
  
 product5.setBackground(new java.awt.Color(255, 255, 255));  
 product5.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  
  
 view5.setBackground(new java.awt.Color(102, 102, 102));  
 view5.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 view5.setText("View");  
 view5.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 view5ActionPerformed(evt);  
 }  
 });  
  
 product\_name5.setText("Product Name");  
  
 cost5.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 cost5.setText("Cost: XXX.XX");  
  
 javax.swing.GroupLayout product5Layout = new javax.swing.GroupLayout(product5);  
 product5.setLayout(product5Layout);  
 product5Layout.setHorizontalGroup(  
 product5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, product5Layout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(product\_name5, javax.swing.GroupLayout.PREFERRED\_SIZE, 182, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(cost5)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(view5, javax.swing.GroupLayout.PREFERRED\_SIZE, 79, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap())  
 );  
 product5Layout.setVerticalGroup(  
 product5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(product5Layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(product5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
 .addComponent(view5, javax.swing.GroupLayout.DEFAULT\_SIZE, 48, Short.MAX\_VALUE)  
 .addComponent(product\_name5)  
 .addComponent(cost5))  
 .addContainerGap())  
 );  
  
 product6.setBackground(new java.awt.Color(255, 255, 255));  
 product6.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  
  
 view6.setBackground(new java.awt.Color(102, 102, 102));  
 view6.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 view6.setText("View");  
 view6.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 view6ActionPerformed(evt);  
 }  
 });  
  
 product\_name6.setText("Product Name");  
  
 cost6.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 cost6.setText("Cost: XXX.XX");  
  
 javax.swing.GroupLayout product6Layout = new javax.swing.GroupLayout(product6);  
 product6.setLayout(product6Layout);  
 product6Layout.setHorizontalGroup(  
 product6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, product6Layout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(product\_name6, javax.swing.GroupLayout.PREFERRED\_SIZE, 182, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(cost6)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(view6, javax.swing.GroupLayout.PREFERRED\_SIZE, 80, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap())  
 );  
 product6Layout.setVerticalGroup(  
 product6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(product6Layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(product6Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
 .addComponent(view6, javax.swing.GroupLayout.DEFAULT\_SIZE, 49, Short.MAX\_VALUE)  
 .addComponent(product\_name6)  
 .addComponent(cost6))  
 .addContainerGap())  
 );  
  
 product7.setBackground(new java.awt.Color(255, 255, 255));  
 product7.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  
  
 view7.setBackground(new java.awt.Color(102, 102, 102));  
 view7.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 view7.setText("View");  
 view7.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 view7ActionPerformed(evt);  
 }  
 });  
  
 product\_name7.setText("Product Name");  
  
 cost7.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 cost7.setText("Cost: XXX.XX");  
  
 javax.swing.GroupLayout product7Layout = new javax.swing.GroupLayout(product7);  
 product7.setLayout(product7Layout);  
 product7Layout.setHorizontalGroup(  
 product7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, product7Layout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(product\_name7, javax.swing.GroupLayout.PREFERRED\_SIZE, 182, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(cost7)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(view7, javax.swing.GroupLayout.PREFERRED\_SIZE, 80, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap())  
 );  
 product7Layout.setVerticalGroup(  
 product7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(product7Layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(product7Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
 .addComponent(view7, javax.swing.GroupLayout.DEFAULT\_SIZE, 49, Short.MAX\_VALUE)  
 .addComponent(product\_name7)  
 .addComponent(cost7))  
 .addContainerGap())  
 );  
  
 product8.setBackground(new java.awt.Color(255, 255, 255));  
 product8.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  
  
 view8.setBackground(new java.awt.Color(102, 102, 102));  
 view8.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 view8.setText("View");  
 view8.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 view8ActionPerformed(evt);  
 }  
 });  
  
 product\_name8.setText("Product Name");  
  
 cost8.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 cost8.setText("Cost: XXX.XX");  
  
 javax.swing.GroupLayout product8Layout = new javax.swing.GroupLayout(product8);  
 product8.setLayout(product8Layout);  
 product8Layout.setHorizontalGroup(  
 product8Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, product8Layout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(product\_name8, javax.swing.GroupLayout.PREFERRED\_SIZE, 182, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(cost8)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(view8, javax.swing.GroupLayout.PREFERRED\_SIZE, 80, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap())  
 );  
 product8Layout.setVerticalGroup(  
 product8Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(product8Layout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(product8Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
 .addComponent(view8, javax.swing.GroupLayout.DEFAULT\_SIZE, 48, Short.MAX\_VALUE)  
 .addComponent(product\_name8)  
 .addComponent(cost8))  
 .addContainerGap())  
 );  
  
 javax.swing.GroupLayout contentPaneLayout = new javax.swing.GroupLayout(contentPane);  
 contentPane.setLayout(contentPaneLayout);  
 contentPaneLayout.setHorizontalGroup(  
 contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(product1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(product2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(product3, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(product4, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(product5, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(product6, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(product7, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(product8, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addComponent(back\_button, javax.swing.GroupLayout.PREFERRED\_SIZE, 81, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(0, 0, Short.MAX\_VALUE)))  
 .addContainerGap())  
 );  
 contentPaneLayout.setVerticalGroup(  
 contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(back\_button, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGap(18, 18, 18)  
 .addComponent(product1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
 .addComponent(product2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
 .addComponent(product3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
 .addComponent(product4, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
 .addComponent(product5, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
 .addComponent(product6, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
 .addComponent(product7, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
 .addComponent(product8, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 );  
  
 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
 getContentPane().setLayout(layout);  
 layout.setHorizontalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 );  
  
 pack();  
 }// </editor-fold>//GEN-END:initComponents  
  
 private void back\_buttonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_back\_buttonActionPerformed  
 this.setVisible(false);  
 }//GEN-LAST:event\_back\_buttonActionPerformed  
  
 private void view1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_view1ActionPerformed  
 ProductUI obj = new ProductUI(new Product());  
 obj.setVisible(true);  
 }//GEN-LAST:event\_view1ActionPerformed  
  
 private void view2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_view2ActionPerformed  
 ProductUI obj = new ProductUI(new Product());  
 obj.setVisible(true);  
 }//GEN-LAST:event\_view2ActionPerformed  
  
 private void view3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_view3ActionPerformed  
 ProductUI obj = new ProductUI(new Product());  
 obj.setVisible(true);  
 }//GEN-LAST:event\_view3ActionPerformed  
  
 private void view4ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_view4ActionPerformed  
 ProductUI obj = new ProductUI(new Product());  
 obj.setVisible(true);  
 }//GEN-LAST:event\_view4ActionPerformed  
  
 private void view5ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_view5ActionPerformed  
 ProductUI obj = new ProductUI(new Product());  
 obj.setVisible(true);  
 }//GEN-LAST:event\_view5ActionPerformed  
  
 private void view6ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_view6ActionPerformed  
 ProductUI obj = new ProductUI(new Product());  
 obj.setVisible(true);  
 }//GEN-LAST:event\_view6ActionPerformed  
  
 private void view7ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_view7ActionPerformed  
 ProductUI obj = new ProductUI(new Product());  
 obj.setVisible(true);  
 }//GEN-LAST:event\_view7ActionPerformed  
  
 private void view8ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_view8ActionPerformed  
 ProductUI obj = new ProductUI(new Product());  
 obj.setVisible(true);  
 }//GEN-LAST:event\_view8ActionPerformed  
  
 /\*\*  
 \* @param args the command line arguments  
 \*/  
 public static void main(String args[]) {  
 /\* Set the Nimbus look and feel \*/  
 //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
 /\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
 \* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html   
 \*/  
 try {  
 for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {  
 if ("Nimbus".equals(info.getName())) {  
 javax.swing.UIManager.setLookAndFeel(info.getClassName());  
 break;  
 }  
 }  
 } catch (ClassNotFoundException ex) {  
 java.util.logging.Logger.getLogger(CatalogUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.getLogger(CatalogUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.getLogger(CatalogUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.getLogger(CatalogUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 }  
 //</editor-fold>  
  
 /\* Create and display the form \*/  
 java.awt.EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 new CatalogUI().setVisible(true);  
 }  
 });  
 }  
  
 // Variables declaration - do not modify//GEN-BEGIN:variables  
 private javax.swing.JButton back\_button;  
 private javax.swing.JPanel contentPane;  
 private javax.swing.JLabel cost1;  
 private javax.swing.JLabel cost2;  
 private javax.swing.JLabel cost3;  
 private javax.swing.JLabel cost4;  
 private javax.swing.JLabel cost5;  
 private javax.swing.JLabel cost6;  
 private javax.swing.JLabel cost7;  
 private javax.swing.JLabel cost8;  
 private javax.swing.JPanel product1;  
 private javax.swing.JPanel product2;  
 private javax.swing.JPanel product3;  
 private javax.swing.JPanel product4;  
 private javax.swing.JPanel product5;  
 private javax.swing.JPanel product6;  
 private javax.swing.JPanel product7;  
 private javax.swing.JPanel product8;  
 private javax.swing.JLabel product\_name1;  
 private javax.swing.JLabel product\_name2;  
 private javax.swing.JLabel product\_name3;  
 private javax.swing.JLabel product\_name4;  
 private javax.swing.JLabel product\_name5;  
 private javax.swing.JLabel product\_name6;  
 private javax.swing.JLabel product\_name7;  
 private javax.swing.JLabel product\_name8;  
 private javax.swing.JButton view1;  
 private javax.swing.JButton view2;  
 private javax.swing.JButton view3;  
 private javax.swing.JButton view4;  
 private javax.swing.JButton view5;  
 private javax.swing.JButton view6;  
 private javax.swing.JButton view7;  
 private javax.swing.JButton view8;  
 // End of variables declaration//GEN-END:variables  
}

DiscountCodeUI.java

/\*  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template  
 \*/  
package pages\_Jeff\_Seller;  
  
/\*\*  
 \*  
 \* @author jeffplatel  
 \*/  
  
import javax.swing.\*;  
  
import datebase\_jon.Product;  
  
import java.awt.Color;  
  
public class DiscountCodeUI extends javax.swing.JFrame {  
  
 /\*\*  
 \* Creates new form DiscountCode  
 \*/  
 public DiscountCodeUI() {  
 setTitle("Create Product Discount");  
 setBackground(new Color(240, 240, 240));  
 initComponents();  
 }  
  
 /\*\*  
 \* This method is called from within the constructor to initialize the form.  
 \* WARNING: Do NOT modify this code. The content of this method is always  
 \* regenerated by the Form Editor.  
 \*/  
 //@SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 contentPane = new javax.swing.JPanel();  
 discount\_code = new javax.swing.JLabel();  
 percent\_off = new javax.swing.JLabel();  
 create\_button = new javax.swing.JButton();  
 create\_button.setForeground(new Color(255, 255, 255));  
 code\_TextField = new javax.swing.JTextField();  
 percent\_TextField = new javax.swing.JTextField();  
 back\_button = new javax.swing.JButton();  
 back\_button.setForeground(new Color(255, 255, 255));  
  
 contentPane.setBackground(new Color(240, 240, 240));  
  
 discount\_code.setText("Discount Code:");  
  
 percent\_off.setText("Percent % Off:");  
  
 create\_button.setBackground(new java.awt.Color(102, 102, 102));  
 create\_button.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 create\_button.setText("Create");  
 create\_button.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED));  
 create\_button.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 create\_buttonActionPerformed(evt);  
 }  
 });  
  
 back\_button.setBackground(new java.awt.Color(102, 102, 102));  
 back\_button.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 back\_button.setText("Back");  
 back\_button.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  
 back\_button.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 back\_buttonActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout contentPaneLayout = new javax.swing.GroupLayout(contentPane);  
 contentPane.setLayout(contentPaneLayout);  
 contentPaneLayout.setHorizontalGroup(  
 contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGap(38, 38, 38)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(percent\_off, javax.swing.GroupLayout.DEFAULT\_SIZE, 140, Short.MAX\_VALUE)  
 .addComponent(discount\_code, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(back\_button, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(create\_button, javax.swing.GroupLayout.PREFERRED\_SIZE, 394, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
 .addComponent(code\_TextField, javax.swing.GroupLayout.DEFAULT\_SIZE, 394, Short.MAX\_VALUE)  
 .addComponent(percent\_TextField)))  
 .addGap(42, 42, 42))  
 );  
 contentPaneLayout.setVerticalGroup(  
 contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGap(33, 33, 33)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
 .addComponent(code\_TextField, javax.swing.GroupLayout.DEFAULT\_SIZE, 33, Short.MAX\_VALUE)  
 .addComponent(discount\_code, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addGap(18, 18, 18)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
 .addComponent(percent\_off, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(percent\_TextField, javax.swing.GroupLayout.DEFAULT\_SIZE, 35, Short.MAX\_VALUE))  
 .addGap(18, 18, 18)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
 .addComponent(create\_button, javax.swing.GroupLayout.DEFAULT\_SIZE, 34, Short.MAX\_VALUE)  
 .addComponent(back\_button, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addContainerGap(17, Short.MAX\_VALUE))  
 );  
  
 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
 getContentPane().setLayout(layout);  
 layout.setHorizontalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 );  
  
 pack();  
 }// </editor-fold>//GEN-END:initComponents  
  
 //Edit later  
 private void create\_buttonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_create\_buttonActionPerformed  
 if(String.valueOf(code\_TextField.getText()).isEmpty()){  
 if(String.valueOf(percent\_TextField.getText()).isEmpty()){  
 JFrame frame = new JFrame();  
 JOptionPane.showMessageDialog(frame, "You did not add a code or percent off.");  
 }  
 else if(String.valueOf(code\_TextField.getText()) != null && String.valueOf(percent\_TextField.getText()) != null){  
 ProductUI obj = new ProductUI(new Product());  
 obj.setVisible(true);  
 JFrame frame = new JFrame();  
 JOptionPane.showMessageDialog(frame, "Discount code added.");  
 }  
 }  
 }//GEN-LAST:event\_create\_buttonActionPerformed  
  
 private void back\_buttonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_back\_buttonActionPerformed  
 this.setVisible(false);  
 }//GEN-LAST:event\_back\_buttonActionPerformed  
  
 /\*\*  
 \* @param args the command line arguments  
 \*/  
 public static void main(String args[]) {  
 /\* Set the Nimbus look and feel \*/  
 //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
 /\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
 \* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html   
 \*/  
 try {  
 for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {  
 if ("Nimbus".equals(info.getName())) {  
 javax.swing.UIManager.setLookAndFeel(info.getClassName());  
 break;  
 }  
 }  
 } catch (ClassNotFoundException ex) {  
 java.util.logging.Logger.getLogger(DiscountCodeUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.getLogger(DiscountCodeUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.getLogger(DiscountCodeUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.getLogger(DiscountCodeUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 }  
 //</editor-fold>  
 //</editor-fold>  
  
 /\* Create and display the form \*/  
 java.awt.EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 new DiscountCodeUI().setVisible(true);  
 }  
 });  
 }  
  
 // Variables declaration - do not modify//GEN-BEGIN:variables  
 private javax.swing.JButton back\_button;  
 private javax.swing.JTextField code\_TextField;  
 private javax.swing.JPanel contentPane;  
 private javax.swing.JButton create\_button;  
 private javax.swing.JLabel discount\_code;  
 private javax.swing.JTextField percent\_TextField;  
 private javax.swing.JLabel percent\_off;  
 // End of variables declaration//GEN-END:variables  
}

EditDetailsUI.java

/\*  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template  
 \*/  
package pages\_Jeff\_Seller;  
  
/\*\*  
 \*  
 \* @author jeffplatel  
 \*/  
import javax.swing.\*;  
  
import datebase\_jon.Product;  
import datebase\_jon.ShopletSystemManager;  
  
import java.awt.Color;  
public class EditDetailsUI extends javax.swing.JFrame {  
   
 Product product = new Product();  
 ProductUI productUI;  
  
 /\*\*  
 \* Edit Details of a product class  
 \* @param product The product to edit  
 \* @param productUI The parent UI element  
 \*/  
 public EditDetailsUI(Product product, ProductUI productUI) {  
 setTitle("Update Product - " + product.name);  
 this.product = product;  
 this.productUI = productUI;  
 initComponents();  
 }  
   
 /\*\*  
 \* This method is called from within the constructor to initialize the form.  
 \* WARNING: Do NOT modify this code. The content of this method is always  
 \* regenerated by the Form Editor.  
 \*/  
 //@SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 contentPane = new javax.swing.JPanel();  
 product\_name = new javax.swing.JLabel();  
 price = new javax.swing.JLabel();  
 quantity = new javax.swing.JLabel();  
 description = new javax.swing.JLabel();  
 product\_name\_text = new javax.swing.JTextField();  
 price\_text = new javax.swing.JTextField();  
 quantity\_text = new javax.swing.JTextField();  
 description\_text = new javax.swing.JTextField();  
 description\_text.setHorizontalAlignment(SwingConstants.LEFT);  
 update\_button = new javax.swing.JButton();  
 update\_button.setForeground(new Color(255, 255, 255));  
 back\_button = new javax.swing.JButton();  
 back\_button.setForeground(new Color(255, 255, 255));  
  
 contentPane.setBackground(new Color(240, 240, 240));  
  
 product\_name.setText("Product Name:");  
  
 price.setText("Price:");  
  
 quantity.setText("Quantity:");  
  
 description.setText("Description:");  
  
 product\_name\_text.setText(product.name);  
  
 price\_text.setText(product.price.toString());  
  
 quantity\_text.setText("3");  
  
 description\_text.setText(product.description);  
  
 update\_button.setBackground(new java.awt.Color(102, 102, 102));  
 update\_button.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 update\_button.setText("Update");  
 update\_button.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 update\_buttonActionPerformed(evt);  
 }  
 });  
  
 back\_button.setBackground(new java.awt.Color(102, 102, 102));  
 back\_button.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 back\_button.setText("Back");  
 back\_button.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 back\_buttonActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout contentPaneLayout = new javax.swing.GroupLayout(contentPane);  
 contentPane.setLayout(contentPaneLayout);  
 contentPaneLayout.setHorizontalGroup(  
 contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGap(62, 62, 62)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
 .addComponent(description, javax.swing.GroupLayout.DEFAULT\_SIZE, 161, Short.MAX\_VALUE)  
 .addComponent(quantity, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(price, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(product\_name, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addComponent(back\_button, javax.swing.GroupLayout.PREFERRED\_SIZE, 120, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(update\_button, javax.swing.GroupLayout.PREFERRED\_SIZE, 120, javax.swing.GroupLayout.PREFERRED\_SIZE))  
 .addComponent(product\_name\_text, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.DEFAULT\_SIZE, 346, Short.MAX\_VALUE)  
 .addComponent(price\_text, javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(quantity\_text, javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(description\_text, javax.swing.GroupLayout.Alignment.LEADING))  
 .addContainerGap(44, Short.MAX\_VALUE))  
 );  
 contentPaneLayout.setVerticalGroup(  
 contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGap(45, 45, 45)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
 .addComponent(product\_name\_text, javax.swing.GroupLayout.DEFAULT\_SIZE, 36, Short.MAX\_VALUE)  
 .addComponent(product\_name, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addGap(18, 18, 18)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
 .addComponent(price\_text, javax.swing.GroupLayout.DEFAULT\_SIZE, 36, Short.MAX\_VALUE)  
 .addComponent(price, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addGap(18, 18, 18)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
 .addComponent(quantity\_text, javax.swing.GroupLayout.DEFAULT\_SIZE, 36, Short.MAX\_VALUE)  
 .addComponent(quantity, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addGap(18, 18, 18)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(description, javax.swing.GroupLayout.PREFERRED\_SIZE, 36, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addComponent(description\_text, javax.swing.GroupLayout.PREFERRED\_SIZE, 100, javax.swing.GroupLayout.PREFERRED\_SIZE))  
 .addGap(18, 18, 18)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
 .addComponent(update\_button, javax.swing.GroupLayout.DEFAULT\_SIZE, 38, Short.MAX\_VALUE)  
 .addComponent(back\_button, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addContainerGap(17, Short.MAX\_VALUE))  
 );  
  
 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
 getContentPane().setLayout(layout);  
 layout.setHorizontalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 );  
  
 pack();  
 }// </editor-fold>//GEN-END:initComponents  
  
 private void update\_buttonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_update\_buttonActionPerformed  
 ShopletSystemManager.getInstance().edit\_product(product.product\_id, product\_name\_text.getText(), description\_text.getText(), Integer.parseInt(price\_text.getText()), product.amount\_sold);  
 productUI.refreshUI(product\_name\_text.getText(), price\_text.getText(), description\_text.getText());  
 this.setVisible(false);  
 JFrame frame = new JFrame();  
 JOptionPane.showMessageDialog(frame, "Product details updated.");  
 }//GEN-LAST:event\_update\_buttonActionPerformed  
  
 private void back\_buttonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_back\_buttonActionPerformed  
 ProductUI obj = new ProductUI(new Product());  
 obj.setVisible(true);  
 }//GEN-LAST:event\_back\_buttonActionPerformed  
  
 /\*\*  
 \* @param args the command line arguments  
 \*/  
 public static void main(String args[]) {  
 /\* Set the Nimbus look and feel \*/  
 //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
 /\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
 \* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html   
 \*/  
 try {  
 for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {  
 if ("Nimbus".equals(info.getName())) {  
 javax.swing.UIManager.setLookAndFeel(info.getClassName());  
 break;  
 }  
 }  
 } catch (ClassNotFoundException ex) {  
 java.util.logging.Logger.getLogger(EditDetailsUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.getLogger(EditDetailsUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.getLogger(EditDetailsUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.getLogger(EditDetailsUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 }  
 //</editor-fold>  
 //</editor-fold>  
  
 /\* Create and display the form \*/  
 java.awt.EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 new EditDetailsUI(new Product(), new ProductUI(new Product())).setVisible(true);  
 }  
 });  
 }  
  
 // Variables declaration - do not modify//GEN-BEGIN:variables  
 private javax.swing.JButton back\_button;  
 private javax.swing.JPanel contentPane;  
 private javax.swing.JLabel description;  
 private javax.swing.JTextField description\_text;  
 private javax.swing.JLabel price;  
 private javax.swing.JTextField price\_text;  
 private javax.swing.JLabel product\_name;  
 private javax.swing.JTextField product\_name\_text;  
 private javax.swing.JLabel quantity;  
 private javax.swing.JTextField quantity\_text;  
 private javax.swing.JButton update\_button;  
}

ErrorMessage.java

/\*  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template  
 \*/  
package pages\_Jeff\_Seller;  
  
/\*\*  
 \*  
 \* @author jeffplatel  
 \*/  
  
import javax.swing.\*;  
import javax.swing.JOptionPane;  
  
/\*\*  
 \* Error message prompt class  
 \* @author Kelvin Dhoman  
 \*  
 \*/  
public class ErrorMessage {  
 ErrorMessage(){  
 JFrame frame = new JFrame();  
 String message = "Item already exists. Try again.";  
 JOptionPane.showMessageDialog(frame, message);  
   
 }  
 public static void main(String[] args) {  
 new ErrorMessage();   
 }  
}

Logout.java

/\*  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template  
 \*/  
package pages\_Jeff\_Seller;  
  
/\*\*  
 \*  
 \* @author jeffplatel  
 \*/  
  
import javax.swing.\*;  
  
/\*\*  
 \* Logout class  
 \* @author Kelvin Dhoman  
 \*  
 \*/  
public class Logout {  
 Logout(){  
 JFrame frame = new JFrame();  
 JOptionPane.showMessageDialog(frame, "You've successfully logged out!");  
 }  
   
 /\*\*  
 \* Logs out  
 \* @param args  
 \*/  
 public static void main(String[] args) {  
 new Logout();   
 }  
}

ProductUI.java

/\*  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template  
 \*/  
package pages\_Jeff\_Seller;  
  
import javax.swing.JFrame;  
import javax.swing.JLabel;  
import javax.swing.JOptionPane;  
import javax.swing.JPanel;  
  
import datebase\_jon.Product;  
import datebase\_jon.Review;  
import datebase\_jon.ShopletSystemManager;  
import net.miginfocom.swing.MigLayout;  
  
import java.awt.Color;  
import java.awt.Dimension;  
import java.awt.Font;  
import java.awt.event.ActionEvent;  
import java.awt.event.ActionListener;  
import java.util.List;  
  
import javax.swing.GroupLayout.Alignment;  
import javax.swing.BorderFactory;  
import javax.swing.GroupLayout;  
import javax.swing.JButton;  
import javax.swing.LayoutStyle.ComponentPlacement;  
import javax.swing.border.Border;  
import javax.swing.BoxLayout;  
  
/\*\*  
 \*  
 \* @author jeffplatel  
 \*/  
public class ProductUI extends javax.swing.JFrame {  
  
 Product product;  
  
 /\*\*  
 \* Creates new form ProductUI  
 \*/  
 public ProductUI(Product product) {  
 setTitle("Seller Product - " + product.name);  
 this.product = product;  
 initComponents();  
 }  
   
 public void refreshUI(String newName, String newPrice, String newDescription)  
 {  
 setTitle("Seller Product - " + newName);  
 product\_name.setText(newName);  
 price.setText("Price: " + newPrice);  
 description.setText(newDescription);  
 System.out.println("UI Elements updated");  
 }  
   
 /\*\*  
 \* This method is called from within the constructor to initialize the form.  
 \* WARNING: Do NOT modify this code. The content of this method is always  
 \* regenerated by the Form Editor.  
 \*/  
 //@SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 contentPane = new javax.swing.JPanel();  
 product\_name = new javax.swing.JLabel();  
 price = new javax.swing.JLabel();  
 edit\_details = new javax.swing.JButton();  
 edit\_details.setForeground(new Color(255, 255, 255));  
 delete = new javax.swing.JButton();  
 delete.setForeground(new Color(255, 255, 255));  
 discount\_code = new javax.swing.JButton();  
 discount\_code.setForeground(new Color(255, 255, 255));  
 reviews = new javax.swing.JLabel();  
 jScrollPane1 = new javax.swing.JScrollPane();  
 description = new javax.swing.JTextArea();  
 back\_button = new javax.swing.JButton();  
 back\_button.setForeground(new Color(255, 255, 255));  
  
 contentPane.setBackground(new Color(240, 240, 240));  
  
 product\_name.setFont(new java.awt.Font("Helvetica Neue", 1, 18)); // NOI18N  
 product\_name.setText(product.name);  
  
 price.setText("Price: " + product.price);  
  
 edit\_details.setBackground(new java.awt.Color(102, 102, 102));  
 edit\_details.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 edit\_details.setText("Edit Details");  
 edit\_details.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 edit\_detailsActionPerformed(evt);  
 }  
 });  
  
 delete.setBackground(new java.awt.Color(102, 102, 102));  
 delete.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 delete.setText("Delete");  
 delete.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 deleteActionPerformed(evt);  
 }  
 });  
  
 discount\_code.setBackground(new java.awt.Color(102, 102, 102));  
 discount\_code.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 discount\_code.setText("Discount Code");  
 discount\_code.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 discount\_codeActionPerformed(evt);  
 }  
 });  
  
 reviews.setFont(new java.awt.Font("Helvetica Neue", 1, 14)); // NOI18N  
 reviews.setText("Reviews");  
  
 description.setColumns(20);  
 description.setRows(5);  
 description.setText(product.description);  
 jScrollPane1.setViewportView(description);  
  
 back\_button.setBackground(new java.awt.Color(102, 102, 102));  
 back\_button.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 back\_button.setText("Back");  
 back\_button.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 back\_buttonActionPerformed(evt);  
 }  
 });  
   
 JPanel reviewPanel = new JPanel();  
  
 javax.swing.GroupLayout contentPaneLayout = new javax.swing.GroupLayout(contentPane);  
 contentPaneLayout.setHorizontalGroup(  
 contentPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(Alignment.TRAILING, contentPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(contentPaneLayout.createParallelGroup(Alignment.TRAILING)  
 .addComponent(reviewPanel, Alignment.LEADING, GroupLayout.DEFAULT\_SIZE, 801, Short.MAX\_VALUE)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGroup(contentPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(contentPaneLayout.createParallelGroup(Alignment.LEADING, false)  
 .addComponent(price, GroupLayout.DEFAULT\_SIZE, GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(product\_name, GroupLayout.DEFAULT\_SIZE, 234, Short.MAX\_VALUE))  
 .addComponent(jScrollPane1, GroupLayout.PREFERRED\_SIZE, 564, GroupLayout.PREFERRED\_SIZE)  
 .addComponent(reviews, GroupLayout.PREFERRED\_SIZE, 135, GroupLayout.PREFERRED\_SIZE))  
 .addPreferredGap(ComponentPlacement.RELATED, 110, Short.MAX\_VALUE)  
 .addGroup(contentPaneLayout.createParallelGroup(Alignment.LEADING, false)  
 .addComponent(delete, GroupLayout.DEFAULT\_SIZE, GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(edit\_details, GroupLayout.DEFAULT\_SIZE, GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(discount\_code, Alignment.TRAILING, GroupLayout.DEFAULT\_SIZE, GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(back\_button, GroupLayout.DEFAULT\_SIZE, GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))))  
 .addGap(16))  
 );  
 contentPaneLayout.setVerticalGroup(  
 contentPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(contentPaneLayout.createParallelGroup(Alignment.TRAILING, false)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addComponent(product\_name, GroupLayout.PREFERRED\_SIZE, 52, GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(ComponentPlacement.RELATED)  
 .addComponent(price, GroupLayout.PREFERRED\_SIZE, 37, GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(ComponentPlacement.RELATED)  
 .addComponent(jScrollPane1, GroupLayout.PREFERRED\_SIZE, 207, GroupLayout.PREFERRED\_SIZE)  
 .addGap(37)  
 .addComponent(reviews, GroupLayout.PREFERRED\_SIZE, 31, GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(ComponentPlacement.RELATED))  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addComponent(back\_button, GroupLayout.DEFAULT\_SIZE, GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addGap(18)  
 .addComponent(edit\_details, GroupLayout.PREFERRED\_SIZE, 85, GroupLayout.PREFERRED\_SIZE)  
 .addGap(18)  
 .addComponent(delete, GroupLayout.PREFERRED\_SIZE, 85, GroupLayout.PREFERRED\_SIZE)  
 .addGap(18)  
 .addComponent(discount\_code, GroupLayout.PREFERRED\_SIZE, 84, GroupLayout.PREFERRED\_SIZE)  
 .addGap(35)))  
 .addPreferredGap(ComponentPlacement.RELATED)  
 .addComponent(reviewPanel, GroupLayout.DEFAULT\_SIZE, 228, Short.MAX\_VALUE)  
 .addContainerGap())  
 );  
 reviewPanel.setLayout(new BoxLayout(reviewPanel, BoxLayout.X\_AXIS));  
 contentPane.setLayout(contentPaneLayout);  
  
 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
 getContentPane().setLayout(layout);  
 layout.setHorizontalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 );  
   
 reviewPanel.setLayout(new BoxLayout(reviewPanel, BoxLayout.Y\_AXIS));  
   
 //Reviews  
 List<Review> productReviews = ShopletSystemManager.getInstance().grab\_reviews(product.product\_id);  
   
 for (int i = 0; i < productReviews.size(); i++)  
 {  
 reviewPanel.add(addReviewItem(productReviews.get(i).review\_id, productReviews.get(i).user\_id  
 ,productReviews.get(i).product\_id, productReviews.get(i).reviewer\_name, productReviews.get(i).review\_rating  
 , productReviews.get(i).review\_content), "span, growx");  
 }  
   
 pack();  
 }// </editor-fold>//GEN-END:initComponents  
  
 private void discount\_codeActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_discount\_codeActionPerformed  
 DiscountCodeUI obj = new DiscountCodeUI();  
 obj.setVisible(true);  
 }//GEN-LAST:event\_discount\_codeActionPerformed  
 private void edit\_detailsActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_edit\_detailsActionPerformed  
 EditDetailsUI obj = new EditDetailsUI(product, this);  
 obj.setVisible(true);  
 }//GEN-LAST:event\_edit\_detailsActionPerformed  
 private void deleteActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_deleteActionPerformed  
 if(delete.getMouseListeners() != null){  
 ShopletSystemManager.getInstance().delete\_product(product.product\_id);  
 contentPane.setVisible(false);  
 JFrame frame = new JFrame();  
 JOptionPane.showMessageDialog(frame, "Product successefully deleted.");  
 dispose();  
 }  
 }//GEN-LAST:event\_deleteActionPerformed  
  
 /\*\*  
 \* The JPanel object that represents a product item entry in the product catalog.  
 \* @param productName The name of the product to show  
 \* @param productPrice The price of the product to show  
 \* @return  
 \*/  
 public JPanel addReviewItem(Integer review\_id, Integer user\_id, Integer product\_id, String review\_name, String review\_rating, String review\_content)  
 {  
 Review review = new Review(review\_id, user\_id, product\_id, review\_name, review\_rating, review\_content);  
   
 // Convert price to 2 decimal places  
 Border border = BorderFactory.createLineBorder(Color.black);  
  
 // Build product entry  
 JPanel reviewPanel = new JPanel(new MigLayout("", "[][]push[][]15", "[]"));  
 reviewPanel.setPreferredSize(new Dimension(1000, 60));  
 reviewPanel.setMaximumSize(new Dimension(1000, 60));  
 reviewPanel.setBackground(Color.white);  
   
 JLabel reviewerLabel = new JLabel(review.reviewer\_name);  
 reviewerLabel.setFont(new Font("Arial", Font.PLAIN, 28));  
 reviewerLabel.setMaximumSize(new Dimension(200, 100));  
 reviewPanel.add(reviewerLabel);  
   
 reviewPanel.add(new JLabel(" Rating: " + review\_rating)).setFont(new Font("Arial", Font.PLAIN, 16));  
 reviewPanel.add(new JLabel(review\_content)).setFont(new Font("Arial", Font.PLAIN, 16));  
   
  
 reviewPanel.setBorder(border);  
  
 // Return the product panel  
 return reviewPanel;  
 }  
   
 private void back\_buttonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_back\_buttonActionPerformed  
 this.setVisible(false);  
 }//GEN-LAST:event\_back\_buttonActionPerformed  
  
 /\*\*  
 \* @param args the command line arguments  
 \*/  
 public static void main(String args[]) {  
 /\* Set the Nimbus look and feel \*/  
 //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
 /\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
 \* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html   
 \*/  
 try {  
 for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {  
 if ("Nimbus".equals(info.getName())) {  
 javax.swing.UIManager.setLookAndFeel(info.getClassName());  
 break;  
 }  
 }  
 } catch (ClassNotFoundException ex) {  
 java.util.logging.Logger.getLogger(ProductUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.getLogger(ProductUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.getLogger(ProductUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.getLogger(ProductUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 }  
 //</editor-fold>  
  
 /\* Create and display the form \*/  
 java.awt.EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 new ProductUI(new Product()).setVisible(true);  
 }  
 });  
 }  
   
  
 // Variables declaration - do not modify//GEN-BEGIN:variables  
 private javax.swing.JButton back\_button;  
 private javax.swing.JPanel contentPane;  
 private javax.swing.JButton delete;  
 private javax.swing.JTextArea description;  
 private javax.swing.JButton discount\_code;  
 private javax.swing.JButton edit\_details;  
 private javax.swing.JScrollPane jScrollPane1;  
 private javax.swing.JLabel price;  
 private javax.swing.JLabel product\_name;  
 private javax.swing.JLabel reviews;  
}

ProfileUI.java

/\*  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template  
 \*/  
package pages\_Jeff\_Seller;  
  
/\*\*  
 \*  
 \* @author jeffplatel  
 \*/  
  
 import javax.swing.\*;  
import java.awt.Color;  
public class ProfileUI extends javax.swing.JFrame {  
  
 /\*\*  
 \* Creates new form Profile  
 \*/  
 public ProfileUI() {  
 setTitle("Seller Panel - Edit Profile");  
 initComponents();  
 }  
  
 /\*\*  
 \* This method is called from within the constructor to initialize the form.  
 \* WARNING: Do NOT modify this code. The content of this method is always  
 \* regenerated by the Form Editor.  
 \*/  
 //@SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 contentPane = new javax.swing.JPanel();  
 username = new javax.swing.JLabel();  
 password = new javax.swing.JLabel();  
 email = new javax.swing.JLabel();  
 first\_name = new javax.swing.JLabel();  
 last\_name = new javax.swing.JLabel();  
 street\_address = new javax.swing.JLabel();  
 city = new javax.swing.JLabel();  
 states = new javax.swing.JLabel();  
 zip\_code = new javax.swing.JLabel();  
 phone\_number = new javax.swing.JLabel();  
 username\_text = new javax.swing.JTextField();  
 password\_text = new javax.swing.JTextField();  
 email\_text = new javax.swing.JTextField();  
 first\_name\_text = new javax.swing.JTextField();  
 last\_name\_text = new javax.swing.JTextField();  
 street\_address\_text = new javax.swing.JTextField();  
 city\_text = new javax.swing.JTextField();  
 states\_select = new javax.swing.JComboBox<>();  
 zip\_code\_text = new javax.swing.JTextField();  
 phone\_number\_text = new javax.swing.JTextField();  
 update\_button = new javax.swing.JButton();  
 update\_button.setForeground(new Color(255, 255, 255));  
 cancel\_button = new javax.swing.JButton();  
 cancel\_button.setForeground(new Color(255, 255, 255));  
  
 contentPane.setBackground(new Color(240, 240, 240));  
  
 username.setText("Username");  
  
 password.setText("Password");  
  
 email.setText("Email");  
  
 first\_name.setText("First Name");  
  
 last\_name.setText("Last Name");  
  
 street\_address.setText("Street Address");  
  
 city.setText("City");  
  
 states.setText("States");  
  
 zip\_code.setText("Zip Code");  
  
 phone\_number.setText("Phone Number");  
  
 first\_name\_text.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 first\_name\_textActionPerformed(evt);  
 }  
 });  
  
 states\_select.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "AK - Alaska", "AL - Alabama", "AR - Arkansas", "AZ - Arizona", "CA - California", "CO -Colorado", "CT - Connecticut", "DC - District of Columbia", "DE - Delaware", "FL - Florida", "GA - Georgia", "HI - Hawaii", "IA - Iowa", "ID - Idaho", "IL - Illinois", "IN - Indiana", "KY - Kentucky", "LA - Louisiana", "MA - Massachusetts", "MD - Maryland", "ME - Maine", "MI - Michigan", "MN - Minnesota", "MI - Missouri", "MS - Mississippi", "MT - Montana", "NC - North Carolina", "ND - North Dakota", "NE - Nebraska", "NH - New Hampshire", "NJ - New Jersey", "NM - New Mexico", "NV - Nevada", "NY - New York", "OH - Ohio", "OK - Oklahoma", "OR - Oregon", "PA - Pennsylvania", "PR - Puerto Rico", "RI - Rhode Island", "SC - South Carolina", "SD - South Dakota", "TN - Tennessee", "TX - Texas", "UT - Utah", "VA - Virginia", "VT - Vermont", "WA - Washington", "WI - Wisconsin", "WV - West Virginia", "WY - Wyoming" }));  
 states\_select.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 states\_selectActionPerformed(evt);  
 }  
 });  
  
 update\_button.setBackground(new java.awt.Color(102, 102, 102));  
 update\_button.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 update\_button.setText("Update Account");  
 update\_button.setBorder(null);  
 update\_button.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 update\_buttonActionPerformed(evt);  
 }  
 });  
  
 cancel\_button.setBackground(new java.awt.Color(102, 102, 102));  
 cancel\_button.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 cancel\_button.setText("Cancel");  
 cancel\_button.setBorder(null);  
 cancel\_button.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 cancel\_buttonActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout contentPaneLayout = new javax.swing.GroupLayout(contentPane);  
 contentPane.setLayout(contentPaneLayout);  
 contentPaneLayout.setHorizontalGroup(  
 contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGap(24, 24, 24)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
 .addComponent(phone\_number, javax.swing.GroupLayout.DEFAULT\_SIZE, 99, Short.MAX\_VALUE)  
 .addComponent(zip\_code, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(states, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(city, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(street\_address, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(last\_name, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(first\_name, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(username, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(email, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(password, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addGap(18, 18, 18)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
 .addComponent(zip\_code\_text, javax.swing.GroupLayout.DEFAULT\_SIZE, 339, Short.MAX\_VALUE)  
 .addComponent(username\_text)  
 .addComponent(password\_text)  
 .addComponent(email\_text)  
 .addComponent(first\_name\_text)  
 .addComponent(last\_name\_text)  
 .addComponent(street\_address\_text)  
 .addComponent(city\_text)  
 .addComponent(states\_select, 0, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(phone\_number\_text)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addComponent(update\_button, javax.swing.GroupLayout.PREFERRED\_SIZE, 150, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(cancel\_button, javax.swing.GroupLayout.PREFERRED\_SIZE, 150, javax.swing.GroupLayout.PREFERRED\_SIZE)))  
 .addContainerGap(34, Short.MAX\_VALUE))  
 );  
 contentPaneLayout.setVerticalGroup(  
 contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGap(25, 25, 25)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
 .addComponent(username, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(username\_text, javax.swing.GroupLayout.DEFAULT\_SIZE, 27, Short.MAX\_VALUE))  
 .addGap(18, 18, 18)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
 .addComponent(password\_text, javax.swing.GroupLayout.DEFAULT\_SIZE, 28, Short.MAX\_VALUE)  
 .addComponent(password, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
 .addComponent(email, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(email\_text, javax.swing.GroupLayout.DEFAULT\_SIZE, 27, Short.MAX\_VALUE))  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
 .addComponent(first\_name\_text, javax.swing.GroupLayout.PREFERRED\_SIZE, 27, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addComponent(first\_name, javax.swing.GroupLayout.PREFERRED\_SIZE, 27, javax.swing.GroupLayout.PREFERRED\_SIZE))  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
 .addComponent(last\_name\_text, javax.swing.GroupLayout.PREFERRED\_SIZE, 26, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addComponent(last\_name, javax.swing.GroupLayout.PREFERRED\_SIZE, 26, javax.swing.GroupLayout.PREFERRED\_SIZE))  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
 .addComponent(street\_address\_text, javax.swing.GroupLayout.PREFERRED\_SIZE, 27, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addComponent(street\_address, javax.swing.GroupLayout.PREFERRED\_SIZE, 27, javax.swing.GroupLayout.PREFERRED\_SIZE))  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
 .addComponent(city\_text, javax.swing.GroupLayout.PREFERRED\_SIZE, 27, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addComponent(city, javax.swing.GroupLayout.PREFERRED\_SIZE, 27, javax.swing.GroupLayout.PREFERRED\_SIZE))  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
 .addComponent(states\_select, javax.swing.GroupLayout.PREFERRED\_SIZE, 26, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addComponent(states, javax.swing.GroupLayout.PREFERRED\_SIZE, 26, javax.swing.GroupLayout.PREFERRED\_SIZE))  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
 .addComponent(zip\_code\_text)  
 .addComponent(zip\_code, javax.swing.GroupLayout.PREFERRED\_SIZE, 25, javax.swing.GroupLayout.PREFERRED\_SIZE))  
 .addGap(18, 18, 18)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(phone\_number, javax.swing.GroupLayout.PREFERRED\_SIZE, 26, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addComponent(phone\_number\_text, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))  
 .addGap(18, 18, 18)  
 .addGroup(contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  
 .addComponent(update\_button, javax.swing.GroupLayout.DEFAULT\_SIZE, 40, Short.MAX\_VALUE)  
 .addComponent(cancel\_button, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addGap(18, 18, 18))  
 );  
  
 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
 getContentPane().setLayout(layout);  
 layout.setHorizontalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 );  
  
 pack();  
 }// </editor-fold>//GEN-END:initComponents  
  
 private void first\_name\_textActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_first\_name\_textActionPerformed  
 // TODO add your handling code here:  
 }//GEN-LAST:event\_first\_name\_textActionPerformed  
  
 private void states\_selectActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_states\_selectActionPerformed  
 // TODO add your handling code here:  
 }//GEN-LAST:event\_states\_selectActionPerformed  
  
 private void update\_buttonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_update\_buttonActionPerformed  
 JFrame frame = new JFrame();  
 JOptionPane.showMessageDialog(frame, "Account details updated.");  
 this.setVisible(false);  
 }//GEN-LAST:event\_update\_buttonActionPerformed  
  
 private void cancel\_buttonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_cancel\_buttonActionPerformed  
 JFrame frame = new JFrame();  
 JOptionPane.showMessageDialog(frame, "No changes were made.");  
 this.setVisible(false);  
 }//GEN-LAST:event\_cancel\_buttonActionPerformed  
  
 /\*\*  
 \* The main argument  
 \* @param args the command line arguments  
 \*/  
 public static void main(String args[]) {  
 /\* Set the Nimbus look and feel \*/  
 //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
 /\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
 \* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html   
 \*/  
 try {  
 for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {  
 if ("Nimbus".equals(info.getName())) {  
 javax.swing.UIManager.setLookAndFeel(info.getClassName());  
 break;  
 }  
 }  
 } catch (ClassNotFoundException ex) {  
 java.util.logging.Logger.getLogger(ProfileUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.getLogger(ProfileUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.getLogger(ProfileUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.getLogger(ProfileUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 }  
 //</editor-fold>  
 //</editor-fold>  
  
 /\* Create and display the form \*/  
 java.awt.EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 new ProfileUI().setVisible(true);  
 }  
 });  
 }  
  
 // Variables declaration - do not modify//GEN-BEGIN:variables  
 private javax.swing.JButton cancel\_button;  
 private javax.swing.JLabel city;  
 private javax.swing.JTextField city\_text;  
 private javax.swing.JPanel contentPane;  
 private javax.swing.JLabel email;  
 private javax.swing.JTextField email\_text;  
 private javax.swing.JLabel first\_name;  
 private javax.swing.JTextField first\_name\_text;  
 private javax.swing.JLabel last\_name;  
 private javax.swing.JTextField last\_name\_text;  
 private javax.swing.JLabel password;  
 private javax.swing.JTextField password\_text;  
 private javax.swing.JLabel phone\_number;  
 private javax.swing.JTextField phone\_number\_text;  
 private javax.swing.JLabel states;  
 private javax.swing.JComboBox<String> states\_select;  
 private javax.swing.JLabel street\_address;  
 private javax.swing.JTextField street\_address\_text;  
 private javax.swing.JButton update\_button;  
 private javax.swing.JLabel username;  
 private javax.swing.JTextField username\_text;  
 private javax.swing.JLabel zip\_code;  
 private javax.swing.JTextField zip\_code\_text;  
 // End of variables declaration//GEN-END:variables  
}

ProfitReportUI.java

/\*  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license  
 \* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template  
 \*/  
package pages\_Jeff\_Seller;  
import java.awt.Color;  
import java.util.ArrayList;  
import java.util.Arrays;  
import java.util.List;  
  
import javax.swing.GroupLayout.Alignment;  
import javax.swing.GroupLayout;  
import javax.swing.LayoutStyle.ComponentPlacement;  
import datebase\_jon.ShopletSystemManager;  
import datebase\_jon.Order;  
import datebase\_jon.Product;  
import javax.swing.JLabel;  
import java.awt.Font;  
  
/\*\*  
 \*  
 \* @author jeffplatel  
 \*/  
public class ProfitReportUI extends javax.swing.JFrame {  
  
 /\*\*  
 \* Creates new form ProfitReportUI  
 \*/  
 public ProfitReportUI() {  
 setTitle("Seller Revenue Report");  
 initComponents();  
 }  
  
 /\*\*  
 \* This method is called from within the constructor to initialize the form.  
 \* WARNING: Do NOT modify this code. The content of this method is always  
 \* regenerated by the Form Editor.  
 \*/  
 //@SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 contentPane = new javax.swing.JPanel();  
 total\_profit = new javax.swing.JLabel();  
 profit = new javax.swing.JLabel();  
 close\_button = new javax.swing.JButton();  
 close\_button.setForeground(new Color(255, 255, 255));  
  
 contentPane.setBackground(new Color(240, 240, 240));  
  
 total\_profit.setText("Gross Profit:");  
  
 close\_button.setBackground(new java.awt.Color(102, 102, 102));  
 close\_button.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 close\_button.setText("Close");  
 close\_button.setBorder(new javax.swing.border.SoftBevelBorder(javax.swing.border.BevelBorder.RAISED));  
 close\_button.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 close\_buttonActionPerformed(evt);  
 }  
 });  
   
 JLabel lblProfitHeader = new JLabel("Profit Report");  
 lblProfitHeader.setFont(new Font("Tahoma", Font.PLAIN, 25));  
   
   
  
 javax.swing.GroupLayout contentPaneLayout = new javax.swing.GroupLayout(contentPane);  
 contentPaneLayout.setHorizontalGroup(  
 contentPaneLayout.createParallelGroup(Alignment.TRAILING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGroup(contentPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGap(78)  
 .addComponent(lblProfitHeader))  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGap(102)  
 .addComponent(total\_profit)  
 .addPreferredGap(ComponentPlacement.RELATED)  
 .addComponent(profit)))  
 .addContainerGap(71, Short.MAX\_VALUE))  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addContainerGap(91, Short.MAX\_VALUE)  
 .addComponent(close\_button, GroupLayout.PREFERRED\_SIZE, 114, GroupLayout.PREFERRED\_SIZE)  
 .addGap(85))  
 );  
 contentPaneLayout.setVerticalGroup(  
 contentPaneLayout.createParallelGroup(Alignment.TRAILING)  
 .addGroup(Alignment.LEADING, contentPaneLayout.createSequentialGroup()  
 .addGap(26)  
 .addComponent(lblProfitHeader)  
 .addGap(39)  
 .addGroup(contentPaneLayout.createParallelGroup(Alignment.BASELINE)  
 .addComponent(total\_profit, GroupLayout.PREFERRED\_SIZE, 37, GroupLayout.PREFERRED\_SIZE)  
 .addComponent(profit))  
 .addPreferredGap(ComponentPlacement.RELATED, 45, Short.MAX\_VALUE)  
 .addComponent(close\_button, GroupLayout.PREFERRED\_SIZE, 38, GroupLayout.PREFERRED\_SIZE)  
 .addGap(54))  
 );  
 contentPane.setLayout(contentPaneLayout);  
  
 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
 getContentPane().setLayout(layout);  
 layout.setHorizontalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 );  
   
 //Get the total profit.  
   
 List<Order> orders = ShopletSystemManager.getInstance().get\_all\_orders();  
 List<Product> sellerProductIds = ShopletSystemManager.getInstance().get\_list\_of\_own\_products(ShopletSystemManager.getInstance().current\_user\_id);  
   
 Integer totalProfit = 0;  
 List<String> orderProductIds = new ArrayList<String>();  
   
 for (int i = 0; i < orders.size(); i++)  
 {  
 orderProductIds.addAll(Arrays.asList(orders.get(i).product\_ids.replaceAll("[^0**-**9,]","").split(",")));  
 }  
   
 System.out.println("Product IDS that were bought:");  
 System.out.println(orderProductIds.toString());  
   
 System.out.println("First Product Id that was found for this seller: " + sellerProductIds.get(0).product\_id);  
   
 for (int i = 0; i < orderProductIds.size(); i++)  
 {  
 for (int j = 0; j < sellerProductIds.size(); j++)  
 {  
 if (Integer.parseInt(orderProductIds.get(i)) == sellerProductIds.get(j).product\_id)  
 totalProfit += sellerProductIds.get(j).getProductPrice();  
 }  
 }  
   
 profit.setText("$" + totalProfit.toString());  
   
  
 pack();  
 }// </editor-fold>//GEN-END:initComponents  
  
 private void close\_buttonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_close\_buttonActionPerformed  
 this.setVisible(false);  
 }//GEN-LAST:event\_close\_buttonActionPerformed  
  
 /\*\*  
 \* @param args the command line arguments  
 \*/  
 public static void main(String args[]) {  
 /\* Set the Nimbus look and feel \*/  
 //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
 /\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
 \* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html   
 \*/  
 try {  
 for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {  
 if ("Nimbus".equals(info.getName())) {  
 javax.swing.UIManager.setLookAndFeel(info.getClassName());  
 break;  
 }  
 }  
 } catch (ClassNotFoundException ex) {  
 java.util.logging.Logger.getLogger(ProfitReportUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.getLogger(ProfitReportUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.getLogger(ProfitReportUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.getLogger(ProfitReportUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 }  
 //</editor-fold>  
  
 /\* Create and display the form \*/  
 java.awt.EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 new ProfitReportUI().setVisible(true);  
 }  
 });  
 }  
  
 // Variables declaration - do not modify//GEN-BEGIN:variables  
 private javax.swing.JButton close\_button;  
 private javax.swing.JPanel contentPane;  
 private javax.swing.JLabel profit;  
 private javax.swing.JLabel total\_profit;  
}

RespondUI.java

/\*  
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 \* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template  
 \*/  
package pages\_Jeff\_Seller;  
  
/\*\*  
 \*  
 \* @author jeffplatel  
 \*/  
  
import javax.swing.\*;  
import javax.swing.GroupLayout.Alignment;  
import javax.swing.LayoutStyle.ComponentPlacement;  
import java.awt.Color;  
  
public class RespondUI extends javax.swing.JFrame {  
  
 /\*\*  
 \* Creates new form Respond  
 \*/  
 public RespondUI() {  
 setBackground(new Color(240, 240, 240));  
 getContentPane().setBackground(new Color(240, 240, 240));  
 initComponents();  
 }  
  
 /\*\*  
 \* This method is called from within the constructor to initialize the form.  
 \* WARNING: Do NOT modify this code. The content of this method is always  
 \* regenerated by the Form Editor.  
 \*/  
 //@SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 contentPane = new javax.swing.JPanel();  
 reply = new javax.swing.JLabel();  
 reply\_text = new javax.swing.JTextField();  
 post\_button = new javax.swing.JButton();  
  
 contentPane.setBackground(new Color(240, 240, 240));  
  
 reply.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 reply.setText("Review Response");  
  
 post\_button.setBackground(new Color(255, 255, 255));  
 post\_button.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 post\_button.setText("Post");  
 post\_button.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 post\_buttonActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout contentPaneLayout = new javax.swing.GroupLayout(contentPane);  
 contentPaneLayout.setHorizontalGroup(  
 contentPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGroup(contentPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(Alignment.TRAILING, contentPaneLayout.createSequentialGroup()  
 .addGap(0, 429, Short.MAX\_VALUE)  
 .addComponent(post\_button, GroupLayout.PREFERRED\_SIZE, 74, GroupLayout.PREFERRED\_SIZE))  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(reply, GroupLayout.PREFERRED\_SIZE, 129, GroupLayout.PREFERRED\_SIZE))  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(reply\_text, GroupLayout.PREFERRED\_SIZE, 493, GroupLayout.PREFERRED\_SIZE)))  
 .addContainerGap())  
 );  
 contentPaneLayout.setVerticalGroup(  
 contentPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(reply, GroupLayout.PREFERRED\_SIZE, 33, GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(ComponentPlacement.RELATED)  
 .addComponent(reply\_text, GroupLayout.PREFERRED\_SIZE, 110, GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(ComponentPlacement.UNRELATED)  
 .addComponent(post\_button, GroupLayout.DEFAULT\_SIZE, 33, Short.MAX\_VALUE)  
 .addContainerGap())  
 );  
 contentPane.setLayout(contentPaneLayout);  
  
 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
 getContentPane().setLayout(layout);  
 layout.setHorizontalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 );  
  
 pack();  
 }// </editor-fold>//GEN-END:initComponents  
  
 private void post\_buttonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_post\_buttonActionPerformed  
 JFrame frame = new JFrame();  
 JOptionPane.showMessageDialog(frame, "Response was posted.");  
 dispose();  
 this.setVisible(false);  
 }//GEN-LAST:event\_post\_buttonActionPerformed  
  
 /\*\*  
 \* @param args the command line arguments  
 \*/  
 public static void main(String args[]) {  
 /\* Set the Nimbus look and feel \*/  
 //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
 /\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
 \* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html   
 \*/  
 try {  
 for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {  
 if ("Nimbus".equals(info.getName())) {  
 javax.swing.UIManager.setLookAndFeel(info.getClassName());  
 break;  
 }  
 }  
 } catch (ClassNotFoundException ex) {  
 java.util.logging.Logger.getLogger(RespondUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.getLogger(RespondUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.getLogger(RespondUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.getLogger(RespondUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 }  
 //</editor-fold>  
 //</editor-fold>  
  
 /\* Create and display the form \*/  
 java.awt.EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 new RespondUI().setVisible(true);  
 }  
 });  
 }  
  
 // Variables declaration - do not modify//GEN-BEGIN:variables  
 private javax.swing.JPanel contentPane;  
 private javax.swing.JButton post\_button;  
 private javax.swing.JLabel reply;  
 private javax.swing.JTextField reply\_text;  
 // End of variables declaration//GEN-END:variables  
}

SellersPanelUI.java

/\*  
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 \* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template  
 \*/  
package pages\_Jeff\_Seller;  
  
/\*\*  
 \*  
 \* @author jeffplatel  
 \*/  
  
import java.awt.event.\*;  
import java.util.List;  
  
import javax.swing.ImageIcon;  
import javax.swing.JButton;  
import javax.swing.JLabel;  
import javax.swing.JOptionPane;  
import javax.swing.JPanel;  
  
import java.awt.Color;  
import java.awt.Dimension;  
import java.awt.FlowLayout;  
import java.awt.Font;  
  
import javax.swing.GroupLayout.Alignment;  
import javax.swing.GroupLayout.ParallelGroup;  
import javax.swing.LayoutStyle.ComponentPlacement;  
import javax.swing.border.Border;  
  
import datebase\_jon.Product;  
import datebase\_jon.ShopletSystemManager;  
import datebase\_jon.User;  
import net.miginfocom.swing.MigLayout;  
import pages\_jarold.Login;  
import pages\_kelvin.Cart;  
  
import javax.swing.BorderFactory;  
import javax.swing.GroupLayout;  
import javax.swing.BoxLayout;  
  
public class SellersPanelUI extends javax.swing.JFrame {  
  
 /\*\*  
 \* Creates new form ProductCatalog  
 \*/  
 public SellersPanelUI() {  
 setTitle("Sellers Portal");  
 addWindowListener(new WindowAdapter() {  
 @Override  
 public void windowActivated(WindowEvent e) {  
 // Update cart text button when user focuses on window.  
 System.out.println("Product list refreshed");  
 refreshProductList();  
 }  
 });  
 initComponents();  
 }  
   
 /\*\*  
 \* This method is called from within the constructor to initialize the form.  
 \* WARNING: Do NOT modify this code. The content of this method is always  
 \* regenerated by the Form Editor.  
 \*/  
 //@SuppressWarnings("unchecked")  
 // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents  
 private void initComponents() {  
  
 contentPane = new javax.swing.JPanel();  
 headerPane = new javax.swing.JPanel();  
 icon = new javax.swing.JLabel();  
 seller\_header = new javax.swing.JLabel();  
 logout\_button = new javax.swing.JButton();  
 logout\_button.setForeground(new Color(255, 255, 255));  
 displayPane = new javax.swing.JPanel();  
 menuPane = new javax.swing.JPanel();  
 profile\_button = new javax.swing.JButton();  
 profile\_button.setForeground(new Color(255, 255, 255));  
 add\_product\_button = new javax.swing.JButton();  
 add\_product\_button.setForeground(new Color(255, 255, 255));  
 profit\_report\_button = new javax.swing.JButton();  
 profit\_report\_button.setForeground(new Color(255, 255, 255));  
 product1 = new javax.swing.JPanel();  
 product\_name1 = new javax.swing.JLabel();  
 cost1 = new javax.swing.JLabel();  
 view\_button1 = new javax.swing.JButton();  
 view\_button1.setForeground(new Color(255, 255, 255));  
 product2 = new javax.swing.JPanel();  
 product\_name2 = new javax.swing.JLabel();  
 cost2 = new javax.swing.JLabel();  
 view\_button2 = new javax.swing.JButton();  
 view\_button2.setForeground(new Color(255, 255, 255));  
  
 contentPane.setBackground(new Color(240, 240, 240));  
  
 headerPane.setBackground(new Color(240, 240, 240));  
  
 icon.setIcon(new ImageIcon(SellersPanelUI.class.getResource("/pages\_Jeff\_Seller/icon/logo1.png"))); // NOI18N  
  
 setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  
   
 seller\_header.setFont(new java.awt.Font("Helvetica Neue", 1, 24)); // NOI18N  
 seller\_header.setForeground(new java.awt.Color(204, 0, 51));  
 seller\_header.setText("Seller");  
  
 logout\_button.setBackground(new java.awt.Color(102, 102, 102));  
 logout\_button.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 logout\_button.setText("Logout");  
 logout\_button.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 logout\_buttonActionPerformed(evt);  
 }  
 });  
  
 javax.swing.GroupLayout headerPaneLayout = new javax.swing.GroupLayout(headerPane);  
 headerPaneLayout.setHorizontalGroup(  
 headerPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(headerPaneLayout.createSequentialGroup()  
 .addComponent(icon)  
 .addPreferredGap(ComponentPlacement.RELATED)  
 .addComponent(seller\_header)  
 .addPreferredGap(ComponentPlacement.RELATED, 719, Short.MAX\_VALUE)  
 .addComponent(logout\_button, GroupLayout.PREFERRED\_SIZE, 100, GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap())  
 );  
 headerPaneLayout.setVerticalGroup(  
 headerPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(headerPaneLayout.createSequentialGroup()  
 .addGroup(headerPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addComponent(icon)  
 .addGroup(headerPaneLayout.createSequentialGroup()  
 .addGap(23)  
 .addComponent(seller\_header, GroupLayout.PREFERRED\_SIZE, 30, GroupLayout.PREFERRED\_SIZE))  
 .addGroup(headerPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(logout\_button, GroupLayout.PREFERRED\_SIZE, 37, GroupLayout.PREFERRED\_SIZE)))  
 .addContainerGap(GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 );  
 headerPane.setLayout(headerPaneLayout);  
  
 displayPane.setBackground(new Color(240, 240, 240));  
  
 menuPane.setBackground(new Color(240, 240, 240));  
  
 profile\_button.setBackground(new java.awt.Color(102, 102, 102));  
 profile\_button.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 profile\_button.setText("Profile");  
 profile\_button.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 profile\_buttonActionPerformed(evt);  
 }  
 });  
  
 add\_product\_button.setBackground(new java.awt.Color(102, 102, 102));  
 add\_product\_button.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 add\_product\_button.setText("Add Product");  
 add\_product\_button.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 add\_product\_buttonActionPerformed(evt);  
 }  
 });  
  
 profit\_report\_button.setBackground(new java.awt.Color(102, 102, 102));  
 profit\_report\_button.setFont(new java.awt.Font("Helvetica Neue", 1, 13)); // NOI18N  
 profit\_report\_button.setText("Profit Report");  
 profit\_report\_button.addActionListener(new java.awt.event.ActionListener() {  
 public void actionPerformed(java.awt.event.ActionEvent evt) {  
 profit\_report\_buttonActionPerformed(evt);  
 }  
 });  
   
 productList = new JPanel();  
 productList.setBackground(new Color(240, 240, 240));  
  
 javax.swing.GroupLayout menuPaneLayout = new javax.swing.GroupLayout(menuPane);  
 menuPaneLayout.setHorizontalGroup(  
 menuPaneLayout.createParallelGroup(Alignment.TRAILING)  
 .addGroup(menuPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(menuPaneLayout.createParallelGroup(Alignment.TRAILING, false)  
 .addComponent(productList, GroupLayout.PREFERRED\_SIZE, 960, GroupLayout.PREFERRED\_SIZE)  
 .addGroup(menuPaneLayout.createSequentialGroup()  
 .addComponent(profile\_button, GroupLayout.PREFERRED\_SIZE, 172, GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(ComponentPlacement.RELATED)  
 .addComponent(add\_product\_button, GroupLayout.PREFERRED\_SIZE, 171, GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(ComponentPlacement.RELATED, GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addComponent(profit\_report\_button, GroupLayout.PREFERRED\_SIZE, 173, GroupLayout.PREFERRED\_SIZE)))  
 .addContainerGap())  
 );  
 menuPaneLayout.setVerticalGroup(  
 menuPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(menuPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addGroup(menuPaneLayout.createParallelGroup(Alignment.LEADING, false)  
 .addGroup(menuPaneLayout.createParallelGroup(Alignment.BASELINE)  
 .addComponent(profile\_button, GroupLayout.PREFERRED\_SIZE, 49, GroupLayout.PREFERRED\_SIZE)  
 .addComponent(add\_product\_button, GroupLayout.PREFERRED\_SIZE, 48, GroupLayout.PREFERRED\_SIZE))  
 .addComponent(profit\_report\_button, GroupLayout.DEFAULT\_SIZE, GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 .addPreferredGap(ComponentPlacement.RELATED)  
 .addComponent(productList, GroupLayout.DEFAULT\_SIZE, 541, Short.MAX\_VALUE)  
 .addContainerGap())  
 );  
 productList.setLayout(new BoxLayout(productList, BoxLayout.Y\_AXIS));  
 menuPane.setLayout(menuPaneLayout);  
   
   
 javax.swing.GroupLayout displayPaneLayout = new javax.swing.GroupLayout(displayPane);   
   
 displayPaneLayout.setHorizontalGroup(  
 displayPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(displayPaneLayout.createSequentialGroup()  
 .addGap(0)  
 .addGroup(displayPaneLayout.createParallelGroup(Alignment.LEADING, false)  
 .addComponent(menuPane, Alignment.TRAILING, GroupLayout.DEFAULT\_SIZE, GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addGap(15, 15, Short.MAX\_VALUE)))  
 );  
 displayPaneLayout.setVerticalGroup(  
 displayPaneLayout.createParallelGroup(Alignment.LEADING)  
 .addGroup(displayPaneLayout.createSequentialGroup()  
 .addComponent(menuPane, GroupLayout.PREFERRED\_SIZE, GroupLayout.DEFAULT\_SIZE, GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(ComponentPlacement.UNRELATED)  
 .addPreferredGap(ComponentPlacement.RELATED))  
 );  
  
   
 displayPane.setLayout(displayPaneLayout);  
   
 javax.swing.GroupLayout contentPaneLayout = new javax.swing.GroupLayout(contentPane);  
 contentPane.setLayout(contentPaneLayout);  
 contentPaneLayout.setHorizontalGroup(  
 contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(headerPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 .addContainerGap())  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addGap(12, 12, 12)  
 .addComponent(displayPane, javax.swing.GroupLayout.PREFERRED\_SIZE, 972, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 );  
 contentPaneLayout.setVerticalGroup(  
 contentPaneLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addGroup(contentPaneLayout.createSequentialGroup()  
 .addContainerGap()  
 .addComponent(headerPane, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  
 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
 .addComponent(displayPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  
 );  
  
 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
 getContentPane().setLayout(layout);  
 layout.setHorizontalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 );  
 layout.setVerticalGroup(  
 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
 .addComponent(contentPane, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  
 );  
   
   
 //Products  
 List<Product> products = ShopletSystemManager.getInstance().get\_list\_of\_own\_products(ShopletSystemManager.getInstance().current\_user\_id);  
   
 for (int i = 0; i < products.size(); i++)  
 {  
 productList.add(ProductItem(products.get(i).product\_id ,products.get(i).name, products.get(i).price, products.get(i).description), "span, growx");  
 }  
  
 pack();  
 }// </editor-fold>//GEN-END:initComponents  
  
 private void add\_product\_buttonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_add\_product\_buttonActionPerformed  
 AddProductUI obj = new AddProductUI(this);  
 obj.setVisible(true);  
 }//GEN-LAST:event\_add\_product\_buttonActionPerformed  
 private void profit\_report\_buttonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_profit\_report\_buttonActionPerformed  
 ProfitReportUI obj = new ProfitReportUI();  
 obj.setVisible(true);  
 }//GEN-LAST:event\_profit\_report\_buttonActionPerformed  
 private void logout\_buttonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_logout\_buttonActionPerformed  
 Logout obj = new Logout();  
 if(logout\_button.getMouseListeners() != null){  
 this.setVisible(false);  
 Login login = new Login();  
 login.setVisible(true);  
 obj.getClass();  
 }  
   
 }//GEN-LAST:event\_logout\_buttonActionPerformed  
 private void view\_button2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event\_view\_button2ActionPerformed  
 ProductUI obj = new ProductUI(new Product());  
 obj.setVisible(true);  
 }//GEN-LAST:event\_view\_button2ActionPerformed  
 private void profile\_buttonActionPerformed(ActionEvent evt){  
 ProfileUI obj = new ProfileUI();  
 obj.setVisible(true);  
 }  
   
   
 /\*\*  
 \* The JPanel object that represents a product item entry in the product catalog.  
 \* @param productName The name of the product to show  
 \* @param productPrice The price of the product to show  
 \* @return  
 \*/  
 public JPanel ProductItem(Integer productId,String productName, Integer productPrice, String productDescription)  
 {  
 Product product = new Product(productId, productName, productPrice, productDescription, true, 1, false);  
   
 // Convert price to 2 decimal places  
 Border border = BorderFactory.createLineBorder(Color.black);  
  
 // Build product entry  
 JPanel newProductPanel = new JPanel(new MigLayout("", "[][]push[][]15", "[]"));  
 newProductPanel.setPreferredSize(new Dimension(1000, 60));  
 newProductPanel.setMaximumSize(new Dimension(1000, 60));  
 newProductPanel.setBackground(Color.white);  
   
 JLabel productLabel = new JLabel(productName);  
 productLabel.setFont(new Font("Arial", Font.PLAIN, 28));  
 productLabel.setMaximumSize(new Dimension(200, 100));  
   
 newProductPanel.add(productLabel);  
 newProductPanel.add(new JLabel("Cost: $" + productPrice)).setFont(new Font("Arial", Font.PLAIN, 16));  
   
 JButton viewProduct = new JButton("View Product");  
 viewProduct.addActionListener(new ActionListener() {  
 public void actionPerformed(ActionEvent e) {  
 ProductUI obj = new ProductUI(product);  
 obj.setVisible(true);  
 }  
 });  
   
 newProductPanel.add(viewProduct);  
 newProductPanel.setBorder(border);  
  
 // Return the product panel  
 return newProductPanel;  
 }  
   
   
 /\*\*  
 \* @param args the command line arguments  
 \*/  
 public static void main(String args[]) {  
 /\* Set the Nimbus look and feel \*/  
 //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">  
 /\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.  
 \* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html   
 \*/  
 try {  
 for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {  
 if ("Nimbus".equals(info.getName())) {  
 javax.swing.UIManager.setLookAndFeel(info.getClassName());  
 break;  
 }  
 }  
 } catch (ClassNotFoundException ex) {  
 java.util.logging.Logger.getLogger(SellersPanelUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (InstantiationException ex) {  
 java.util.logging.Logger.getLogger(SellersPanelUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (IllegalAccessException ex) {  
 java.util.logging.Logger.getLogger(SellersPanelUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 } catch (javax.swing.UnsupportedLookAndFeelException ex) {  
 java.util.logging.Logger.getLogger(SellersPanelUI.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  
 }  
 //</editor-fold>  
 //</editor-fold>  
 //</editor-fold>  
 //</editor-fold>  
  
 /\* Create and display the form \*/  
 java.awt.EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 new SellersPanelUI().setVisible(true);  
 }  
 });  
 }  
   
 /\*\*  
 \* Refresh the product list if needed.  
 \*/  
 public void refreshProductList()  
 {  
 productList.removeAll();  
 productList.revalidate();  
 productList.repaint();  
   
 //Products  
 List<Product> products = ShopletSystemManager.getInstance().get\_list\_of\_own\_products(ShopletSystemManager.getInstance().current\_user\_id);  
   
 for (int i = 0; i < products.size(); i++)  
 {  
 productList.add(ProductItem(products.get(i).product\_id ,products.get(i).name, products.get(i).price, products.get(i).description), "span, growx");  
 }  
  
 }  
  
 // Variables declaration - do not modify//GEN-BEGIN:variables  
 private javax.swing.JButton add\_product\_button;  
 private javax.swing.JPanel contentPane;  
 private javax.swing.JLabel cost1;  
 private javax.swing.JLabel cost2;  
 private javax.swing.JPanel displayPane;  
 private javax.swing.JPanel headerPane;  
 private javax.swing.JLabel icon;  
 private javax.swing.JButton logout\_button;  
 private javax.swing.JPanel menuPane;  
 private javax.swing.JPanel product1;  
 private javax.swing.JPanel product2;  
 private javax.swing.JLabel product\_name1;  
 private javax.swing.JLabel product\_name2;  
 private javax.swing.JButton profile\_button;  
 private javax.swing.JButton profit\_report\_button;  
 private javax.swing.JLabel seller\_header;  
 private javax.swing.JButton view\_button1;  
 private javax.swing.JButton view\_button2;  
 private JPanel productList;  
}

BuyerCatalogUI.java

package pages\_kelvin;  
import datebase\_jon.Product;  
import datebase\_jon.ShopletSystemManager;  
import net.miginfocom.swing.MigLayout;  
import java.util.List;  
  
import javax.swing.\*;  
import javax.swing.border.Border;  
  
import java.awt.\*;  
import java.awt.event.ActionListener;  
import java.awt.event.ActionEvent;  
import java.awt.event.FocusAdapter;  
import java.awt.event.FocusEvent;  
import java.awt.event.WindowAdapter;  
import java.awt.event.WindowEvent;  
  
/\*\*  
 \* Class for the Buyer Catalog UI to display to the user.  
 \* @author Kelvin Dhoman  
 \*  
 \*/  
public class BuyerCatalogUI extends JFrame {  
   
 private JButton catalogBtn;  
 private JButton profileBtn;  
 private JButton viewCartBtn;  
   
 /\*\*  
 \* Default constructor for the Buyer Catalog UI  
 \* @param windowTitle The title for the window.  
 \*/  
 public BuyerCatalogUI(String windowTitle)  
 {  
 super(windowTitle);  
 addWindowListener(new WindowAdapter() {  
 @Override  
 public void windowActivated(WindowEvent e) {  
 // Update cart text button when user focuses on window.  
 updateViewCartUI();  
 }  
 });  
   
 this.setMinimumSize(new Dimension(1000, 700));  
 this.setMaximumSize(new Dimension(1000, 700));  
 this.setResizable(false);  
 this.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);  
  
 //Layout and Buttons  
 getContentPane().setLayout(new MigLayout("wrap", "[][]push[]","[][][]"));  
 catalogBtn = new JButton("Catalog");  
 profileBtn = new JButton("Profile");  
 profileBtn.addActionListener(new ActionListener() {  
 public void actionPerformed(ActionEvent e) {  
 ProfileUI profileUI = new ProfileUI("Shoplet - Profile");  
 profileUI.setVisible(true);  
 }  
 });  
 viewCartBtn = new JButton("[0] View Cart");  
 viewCartBtn.addActionListener(new ActionListener() {  
 public void actionPerformed(ActionEvent e) {  
 CartUI cartUI = new CartUI("Shoplet Cart");  
 cartUI.setVisible(true);  
 }  
 });  
  
 // Add to window  
 getContentPane().add(catalogBtn);  
 getContentPane().add(profileBtn);  
 getContentPane().add(viewCartBtn);  
  
 //Products  
 List<Product> products = ShopletSystemManager.getInstance().get\_list\_of\_products();  
 for (int i = 0; i < products.size(); i++)  
 {  
 getContentPane().add(ProductItem(products.get(i).product\_id, products.get(i).name, products.get(i).price, products.get(i).description), "span, growx");  
 }  
 }  
  
 /\*\*  
 \* The JPanel object that represents a product item entry in the product catalog.  
 \* @param productName The name of the product to show  
 \* @param productPrice The price of the product to show  
 \* @return  
 \*/  
 public JPanel ProductItem(Integer productId, String productName, Integer productPrice, String productDescription)  
 {  
 Product product = new Product(productId, productName, productPrice, productDescription, true, 1, false);  
  
 // Convert price to 2 decimal places  
 Border border = BorderFactory.createLineBorder(Color.black);  
  
 // Build product entry  
 JPanel newProductPanel = new JPanel(new MigLayout("", "[][]push[][]15", "[]"));  
 JLabel productLabel = new JLabel(productName);  
 productLabel.setFont(new Font("Arial", Font.PLAIN, 28));  
 productLabel.setMaximumSize(new Dimension(200, 100));  
   
 newProductPanel.add(productLabel);  
 newProductPanel.add(new JLabel("Cost: $" + productPrice)).setFont(new Font("Arial", Font.PLAIN, 16));  
   
 JButton viewProduct = new JButton("View Product");  
 viewProduct.addActionListener(new ActionListener() {  
 public void actionPerformed(ActionEvent e) {  
 ProductUI productPanel = new ProductUI("Shoplet Cart - " + productName, product);  
 productPanel.setVisible(true);  
 }  
 });  
   
 newProductPanel.add(viewProduct);  
 JButton button = new JButton("+");  
   
 button.addActionListener(new ActionListener() {  
 public void actionPerformed(ActionEvent e) {  
 Cart.getInstance().addProduct(product);  
 updateViewCartUI();  
 JOptionPane.showMessageDialog(null, "Item added to cart.", "Shoplet", JOptionPane.INFORMATION\_MESSAGE);  
 }  
 });  
   
 newProductPanel.add(button);  
 newProductPanel.setBorder(border);  
  
 // Return the product panel  
 return newProductPanel;  
 }  
   
 /\*\*  
 \* Updates the view cart button text to represent the current number of products in the cart.  
 \*/  
 public void updateViewCartUI()  
 {  
 viewCartBtn.setText("["+Cart.getInstance().getCartSize()+"]" + " View Cart");  
 }  
  
 /\*\*  
 \* Main constructor  
 \* @param args Arguments to be supplied.  
 \*/  
 public static void main(String[] args) {  
 JFrame frame = new BuyerCatalogUI("Products - Catalog");  
 frame.pack();  
 frame.setLocationRelativeTo(null);  
 frame.setVisible(true);  
 }  
}

BuyerCheckoutUI.java

package pages\_kelvin;  
import net.miginfocom.swing.MigLayout;  
import java.util.\*;  
import java.util.List;  
  
import javax.swing.\*;  
import javax.swing.border.Border;  
  
import datebase\_jon.ShopletSystemManager;  
  
import java.awt.\*;  
import java.awt.event.WindowAdapter;  
import java.awt.event.WindowEvent;  
import java.awt.event.ActionListener;  
import java.awt.event.ActionEvent;  
  
/\*\*  
 \* Class to create a the checkout UI  
 \* @author Kelvin Dhoman  
 \*  
 \*/  
public class BuyerCheckoutUI extends JFrame {  
   
 // Variables  
 private JLabel lblFirstName = new JLabel("First Name:");  
 private JLabel lblLastName = new JLabel("Last Name:");  
 private JLabel lblStreetAddress = new JLabel("Street Address:");  
 private JLabel lblCity = new JLabel("City:");  
 private JLabel lblState = new JLabel("State:");  
 private JLabel lblZipcode = new JLabel("Zip Code:");  
 private JLabel lblPhoneNumber = new JLabel("Phone Number:");  
 private JLabel lblCreditCard = new JLabel("Credit Card #:");  
 private JLabel lblCVV = new JLabel("CVV:");  
 private JLabel lblExpirationDate = new JLabel("Expiration Date:");  
 private JLabel lblTotalPrice = new JLabel("Total: $" + Cart.getInstance().calculateGrandTotal());  
  
  
 private JTextField txtFirstName = new JTextField();  
 private JTextField txtLastName = new JTextField();  
 private JTextField txtStreetAddress = new JTextField();  
 private JTextField txtCity = new JTextField();  
 private JTextField txtZipcode = new JTextField();  
 private JTextField txtPhoneNumber = new JTextField();  
 private JTextField txtCreditCard = new JTextField();  
 private JTextField txtCVV = new JTextField();  
 private JTextField txtExpirationDate = new JTextField();  
 private JComboBox stateComboBox = new JComboBox(StatesList.States);  
  
 public JButton btnCancel = new JButton("Cancel");  
 public JButton btnConfirmOrder = new JButton("Confirm Order");  
  
 /\*\*  
 \* Constructor for the Buyer Checkout UI  
 \* @param windowTitle The name of the window  
 \* @param cartWindow The Cart UI reference to be based off of  
 \*/  
 public BuyerCheckoutUI(String windowTitle, CartUI cartWindow)  
 { // TODO: Add cart parameter to retrieve cart info.  
 super(windowTitle);  
 addWindowListener(new WindowAdapter() {  
 @Override  
 public void windowClosing(WindowEvent e) {  
 cartWindow.checkout = null;  
 }  
 });  
 this.setMinimumSize(new Dimension(350, 370));  
 this.setMaximumSize(new Dimension(350, 370));  
 this.setResizable(false);  
  
 getContentPane().setLayout(new MigLayout("", "[][]", "[]"));  
  
 getContentPane().add(lblFirstName, "cell 0 1");  
 getContentPane().add(lblLastName, "cell 0 2");  
 getContentPane().add(lblStreetAddress, "cell 0 3");  
 getContentPane().add(lblCity, "cell 0 4");  
 getContentPane().add(lblState, "cell 0 5");  
 getContentPane().add(lblZipcode, "cell 0 6");  
 getContentPane().add(lblPhoneNumber, "cell 0 7");  
 getContentPane().add(lblCreditCard, "cell 0 8");  
 getContentPane().add(lblCVV, "cell 0 9");  
 getContentPane().add(lblExpirationDate, "cell 0 10");  
  
 getContentPane().add(txtFirstName, "cell 1 1");  
 txtFirstName.setColumns(25);  
  
 getContentPane().add(txtLastName, "cell 1 2");  
 txtLastName.setColumns(25);  
  
 getContentPane().add(txtStreetAddress, "cell 1 3");  
 txtStreetAddress.setColumns(25);  
  
 getContentPane().add(txtCity, "cell 1 4");  
 txtCity.setColumns(25);  
  
 getContentPane().add(stateComboBox, "cell 1 5");  
  
 getContentPane().add(txtZipcode, "cell 1 6");  
 txtZipcode.setColumns(25);  
  
 getContentPane().add(txtPhoneNumber, "cell 1 7");  
 txtPhoneNumber.setColumns(25);  
  
 getContentPane().add(txtCreditCard, "cell 1 8");  
 txtCreditCard.setColumns(25);  
  
 getContentPane().add(txtCVV, "cell 1 9");  
 txtCVV.setColumns(25);  
  
 getContentPane().add(txtExpirationDate, "cell 1 10");  
 txtExpirationDate.setColumns(25);  
   
 lblTotalPrice.setBorder(BorderFactory.createLineBorder(Color.BLACK));  
 lblTotalPrice.setFont(new Font("Arial", Font.PLAIN, 26));  
 lblTotalPrice.setPreferredSize(new Dimension(278, lblTotalPrice.getHeight()));  
 getContentPane().add(lblTotalPrice, "cell 1 11");  
 btnCancel.addActionListener(new ActionListener() {  
 public void actionPerformed(ActionEvent e) {  
 cancelCheckoutWindow();  
 JOptionPane.showMessageDialog(null, "Payment cancelled.", "Shoplet", JOptionPane.INFORMATION\_MESSAGE);  
   
 }  
 });  
  
 btnCancel.setPreferredSize(new Dimension(125, btnCancel.getHeight()));  
 getContentPane().add(btnCancel, "cell 1 12");  
   
 btnConfirmOrder.addActionListener(new ActionListener() {  
 public void actionPerformed(ActionEvent e) {  
   
 if(String.valueOf(txtFirstName.getText()).isEmpty() || txtLastName.getText().isEmpty() || txtStreetAddress.getText().isEmpty() ||   
 txtCity.getText().isEmpty() || txtZipcode.getText().isEmpty() || txtPhoneNumber.getText().isEmpty() || txtCreditCard.getText().isEmpty()  
 || txtCVV.getText().isEmpty() || txtExpirationDate.getText().isEmpty())  
 {  
 JFrame frame = new JFrame();  
 JOptionPane.showMessageDialog(frame, "You left one or more field(s) empty!");  
 }  
 else  
 {   
 List<Integer> product\_ids = new ArrayList<Integer>();  
   
 for (int i = 0; i < Cart.getInstance().getCartSize(); i++)  
 {  
 Integer id = Cart.getInstance().itemsInCart.get(i).product\_id;  
 product\_ids.add(id);  
 }  
   
 String products\_ids\_as\_string = product\_ids.toString();  
   
 ShopletSystemManager.getInstance().add\_order(ShopletSystemManager.getInstance().current\_user\_id, Cart.getInstance().getInstance().calculateGrandTotal().toString(), products\_ids\_as\_string);  
   
 cartWindow.clearCartUI();  
   
 //Input verification   
 for (int i = 0; i < Cart.getInstance().getCartSize(); i++)  
 {   
 ShopletSystemManager.getInstance().add\_product\_sale(Cart.getInstance().itemsInCart.get(i).product\_id, 1);  
 }  
   
 cancelCheckoutWindow();  
   
 JOptionPane.showMessageDialog(null, "Payment confirmed.", "Shoplet", JOptionPane.INFORMATION\_MESSAGE);  
   
 cartWindow.setVisible(false);  
 }  
 }  
 });  
   
 btnConfirmOrder.setPreferredSize(new Dimension(145, btnConfirmOrder.getHeight()));  
 getContentPane().add(btnConfirmOrder, "cell 1 12");  
 }  
   
 /\*\*  
 \* Hides the Checkout Window  
 \*/  
 public void cancelCheckoutWindow()  
 {  
 this.setVisible(false);  
 }  
   
   
 /\*\*  
 \* Main class for the Buyer Checkout UI  
 \* @param args Arguments  
 \*/  
 public static void main(String[] args) {  
 JFrame frame = new BuyerCheckoutUI("Shoplet - Checkout", new CartUI("Dummy"));  
 frame.pack();  
 frame.setLocationRelativeTo(null);  
 frame.setVisible(true);  
 }  
}

Cart.java

package pages\_kelvin;  
import java.util.ArrayList;  
  
import datebase\_jon.Product;  
  
/\*\*  
 \* Singleton class representing a user's cart.  
 \* @author Kelvin Dhoman  
 \*  
 \*/  
public class Cart {  
   
 // Variables  
 public ArrayList<Product> itemsInCart;  
 public Double subTotal;  
 public Double totalPrice;  
 public Double totalTax;  
  
 private static Cart \_instance = null;  
   
 /\*\*  
 \* Private constructor for the cart  
 \*/  
 private Cart()  
 {  
 this.itemsInCart = new ArrayList<Product>();  
 this.subTotal = 0.0;  
 this.totalPrice = 0.0;  
 this.totalTax = 0.0;  
 }  
   
 /\*\*  
 \* Retrieves the singleton instance of a Cart object.  
 \* @return The current user's cart.  
 \*/  
 public static Cart getInstance()  
 {  
 if (\_instance == null)  
 \_instance = new Cart();  
   
 return \_instance;  
 }  
   
 /\*\*  
 \* Add a product to the user's cart.  
 \* @param productToAdd The product to add to the cart.  
 \*/  
 public void addProduct(Product productToAdd)  
 {  
 itemsInCart.add(productToAdd);  
 System.out.println("ITEMS NOW IN CART: " + itemsInCart.size());  
 }  
   
 /\*\*  
 \* Retrieves the user's cart size.  
 \* @return An int value of the size of the cart.  
 \*/  
 public int getCartSize()  
 {  
 return itemsInCart.size();  
 }  
  
 void removeProductFromCart(String productName)  
 {  
 Product targetProductToRemove = null;  
   
 for (int i = 0; i < itemsInCart.size(); i++)  
 {  
 if (itemsInCart.get(i).name == productName)  
 {  
 targetProductToRemove = itemsInCart.get(i);  
 itemsInCart.remove(targetProductToRemove);  
 }  
 }  
 }  
   
 /\*\*  
 \* Calculates the total of the user's cart before tax is applied.  
 \* @return The double value of the user's cart cost before tax.  
 \*/  
 public Double calculatePreTaxTotal()  
 {  
 double tempTotal = 0.0;  
  
 for (Product product : itemsInCart) {  
 tempTotal += product.getProductPrice();  
 }  
  
 return tempTotal;  
 }  
   
 /\*\*  
 \* Calculates the tax amount alone not grand total.  
 \* @return The tax amount of the cart.  
 \*/  
 public Double calculateTaxTotal()  
 {  
 return calculatePreTaxTotal() \* 0.06;  
 }  
   
 /\*\*  
 \* Calculates the grand total of the whole cart with amount and tax combined.  
 \* @return The grand total of the cost of the cart.  
 \*/  
 public Double calculateGrandTotal()  
 {  
 return calculatePreTaxTotal() + calculateTaxTotal();  
 }  
   
 /\*\*  
 \* Clear cart of all items.  
 \*/  
 public void clearCart()  
 {  
 itemsInCart.clear();  
 }  
}

CartUI.java

package pages\_kelvin;  
import net.miginfocom.swing.MigLayout;  
  
import javax.swing.\*;  
import javax.swing.border.Border;  
  
import datebase\_jon.Product;  
import datebase\_jon.ShopletSystemManager;  
  
import java.awt.\*;  
import java.awt.event.ActionListener;  
import java.awt.event.WindowAdapter;  
import java.awt.event.WindowEvent;  
import java.util.List;  
import java.awt.event.ActionEvent;  
  
/\*\*  
 \* Class for Cart UI that contains all the products the user has in the cart.  
 \* @author Kelvin Dhoman  
 \*  
 \*/  
public class CartUI extends JFrame {  
 private JButton btnCheckout;  
 private JPanel productsArea;  
 private JPanel pricingArea;  
 public BuyerCheckoutUI checkout = null;  
 public CartUI cart = null;  
 JLabel lblTotalCost = null;  
 JLabel lblTax = null;  
 JLabel lblTotalPrice = null;  
 private JLabel lblEmptyCart;  
  
 /\*\*  
 \* Constructor for the Cart UI  
 \* @param windowTitle The name of the window title.  
 \*/  
 public CartUI(String windowTitle)  
 {  
 super(windowTitle);  
   
 addWindowListener(new WindowAdapter() {  
 @Override  
 public void windowActivated(WindowEvent e) {  
 // Update cart text button when user focuses on window.  
 if (Cart.getInstance().getCartSize() > 0)  
 {  
 System.out.println("Refreshing UI for any added products");  
 refreshCartContents();  
 }  
 }  
 });  
   
 cart = this;  
 this.setMinimumSize(new Dimension(930, 570));  
 this.setMaximumSize(new Dimension(930, 570));  
 this.setResizable(false);  
  
 //Layout and Buttons  
 getContentPane().setLayout(new MigLayout("wrap", "[][][][][][][][][][]", "[][][][][][][][][][][]"));  
  
 productsArea = new JPanel(new MigLayout("wrap", "[push]", "[]"));  
 pricingArea = new JPanel(new MigLayout("wrap", "[]",""));  
 btnCheckout = new JButton("Checkout");  
 btnCheckout.addActionListener(new ActionListener() {  
 public void actionPerformed(ActionEvent e) {  
 if (checkout == null)  
 {  
 checkout = new BuyerCheckoutUI("Shoplet - Checkout", cart);  
 checkout.setVisible(true);  
 }  
 }  
 });  
 btnCheckout.setPreferredSize(new Dimension(350, 100));  
  
  
 lblTotalPrice = new JLabel("Price: $" + Cart.getInstance().calculatePreTaxTotal());  
 lblTotalPrice.setFont(new Font("Arial", Font.PLAIN, 32));  
 lblTax = new JLabel("Tax: $" + Cart.getInstance().calculateTaxTotal());  
 lblTax.setFont(new Font("Arial", Font.PLAIN, 32));  
 lblTotalCost = new JLabel("Total Cost: $" + Cart.getInstance().calculateGrandTotal());  
 lblTotalCost.setFont(new Font("Arial", Font.PLAIN, 32));  
  
 pricingArea.add(lblTotalPrice, "gaptop 1");  
 pricingArea.add(lblTax);  
 pricingArea.add(lblTotalCost, "gaptop 275");  
  
 /\*\* PRODUCTS DEMO \*\*/  
 for (int i = 0; i < Cart.getInstance().getCartSize(); i++)  
 {  
 productsArea.add(ProductItem(Cart.getInstance().itemsInCart.get(i).name, Cart.getInstance().itemsInCart.get(i).price), "span");  
 }  
   
 //Products  
   
 //Disable checkout button if cart is empty.  
 if (Cart.getInstance().getCartSize() == 0)  
 btnCheckout.setEnabled(false);  
   
 // Reset products panel  
 productsArea.removeAll();  
 this.revalidate();  
 this.repaint();  
 pack();  
   
 // Load all the products from cart   
 for (int i = 0; i < Cart.getInstance().getCartSize(); i++)  
 {  
 if (Cart.getInstance().getCartSize() == 0)  
 {  
 return;  
 }  
   
 productsArea.add(ProductItem(Cart.getInstance().itemsInCart.get(i).name, Cart.getInstance().itemsInCart.get(i).getProductPrice()), "growx");   
 }  
   
 getContentPane().add(productsArea, "cell 0 0");  
 getContentPane().add(pricingArea, "pos 550 0,cell 0 0,width 350");  
 getContentPane().add(btnCheckout, "pos 550 418.5,cell 0 0");  
   
 lblEmptyCart = new JLabel("Cart is currently empty...");  
 lblEmptyCart.setFont(new Font("Tahoma", Font.PLAIN, 38));  
 getContentPane().add(lblEmptyCart, "cell 1 1");  
   
 if (Cart.getInstance().getCartSize() == 0)  
 {  
 lblEmptyCart.setVisible(true);  
 btnCheckout.setEnabled(false);  
 }  
 else  
 {  
 lblEmptyCart.setVisible(false);  
 btnCheckout.setEnabled(true);  
 }  
 }  
  
 /\*\*  
 \* Creates new Product item entry.  
 \* @param productName The name of the product.  
 \* @param productPrice The price of the product.  
 \* @return returns a product JPanel to be inserted into another JPanel.  
 \*/  
 public JPanel ProductItem(String productName, double productPrice)  
 {  
 // Convert price to 2 decimal places  
 String priceDecimals = String.format("%.2f", productPrice);  
 Border border = BorderFactory.createLineBorder(Color.black);  
  
 // Build product entry  
 JPanel newProductPanel = new JPanel(new MigLayout("wrap", "[]10[grow]140[grow]", "[]"));  
   
 // Product Label  
 JLabel lblProductName = new JLabel(productName);  
 lblProductName.setFont(new Font("Arial", Font.PLAIN, 32));  
 lblProductName.setMaximumSize(new Dimension(200, 100));  
  
 // Product Name  
 newProductPanel.add(lblProductName, "");  
 newProductPanel.add(new JLabel("Cost: $" + priceDecimals)).setFont(new Font("Arial", Font.PLAIN, 16));  
   
 // Product Delete Button  
 JButton btnDeleteProductFromCart = new JButton("X");  
 btnDeleteProductFromCart.addActionListener(new ActionListener() {  
 public void actionPerformed(ActionEvent e) {  
   
 removeItemFromCart(productName ,newProductPanel);  
 }  
 });  
 btnDeleteProductFromCart.setPreferredSize(new Dimension(65, 65));  
 newProductPanel.add(btnDeleteProductFromCart, "dock east");  
   
 // Black border  
 newProductPanel.setBorder(border);  
  
 // Return the product panel  
 return newProductPanel;  
 }  
   
 /\*\*  
 \* Removes a product from the cart.  
 \* @param productToDelete The product name to remove from the cart.  
 \* @param panel The JPanel that the product is associated with.  
 \*/  
 public void removeItemFromCart(String productToDelete, JPanel panel)  
 {  
 // Remove from Cart  
 Cart.getInstance().removeProductFromCart(productToDelete);  
 productsArea.remove(panel);  
   
 // Update UI  
 lblTotalCost.setText("Total Cost: $" + Cart.getInstance().calculateGrandTotal());  
 lblTax.setText("Tax: $" + Cart.getInstance().calculateTaxTotal());  
 lblTotalPrice.setText("Price: $" + Cart.getInstance().calculatePreTaxTotal());  
   
 JOptionPane.showMessageDialog(null, "Item removed from cart.", "Shoplet", JOptionPane.ERROR\_MESSAGE);  
   
 if (Cart.getInstance().getCartSize() == 0)  
 {  
 btnCheckout.setEnabled(false);  
 lblEmptyCart.setVisible(true);  
 }  
 else  
 {  
 btnCheckout.setEnabled(true);  
 lblEmptyCart.setVisible(false);  
 }  
   
 this.revalidate();  
 this.repaint();  
 pack();  
 }  
   
 public void refreshCartContents()  
 {  
 productsArea.removeAll();  
 lblEmptyCart.setVisible(false);  
 productsArea.revalidate();  
 productsArea.repaint();  
   
 // Load all the products from cart   
 for (int i = 0; i < Cart.getInstance().getCartSize(); i++)  
 {  
 if (Cart.getInstance().getCartSize() == 0)  
 {  
 return;  
 }  
   
 productsArea.add(ProductItem(Cart.getInstance().itemsInCart.get(i).name, Cart.getInstance().itemsInCart.get(i).getProductPrice()), "growx");   
 }  
   
 lblTotalPrice.setText("Price: $" + Cart.getInstance().calculatePreTaxTotal());  
 lblTax.setText("Tax: $" + Cart.getInstance().calculateTaxTotal());  
 lblTotalCost.setText("Total Cost: $" + Cart.getInstance().calculateGrandTotal());  
 }  
   
 /\*\*  
 \* Clears the cart UI elements  
 \*/  
 public void clearCartUI()  
 {  
 Cart.getInstance().clearCart();  
 productsArea.removeAll();  
 lblEmptyCart.setVisible(true);  
 productsArea.revalidate();  
 productsArea.repaint();  
 }  
  
 /\*\*  
 \* Main  
 \* @param args  
 \*/  
 public static void main(String[] args) {  
 JFrame frame = new CartUI("Shoplet - Cart");  
 frame.pack();  
 frame.setLocationRelativeTo(null);  
 frame.setVisible(true);  
 }  
}

ProductUI.java

package pages\_kelvin;  
  
import datebase\_jon.Review;  
import datebase\_jon.ShopletSystemManager;  
import net.miginfocom.swing.MigLayout;  
  
  
import javax.swing.\*;  
import javax.swing.border.Border;  
  
import datebase\_jon.Product;  
  
import java.awt.\*;  
import java.awt.event.ActionListener;  
import java.awt.event.WindowAdapter;  
import java.awt.event.WindowEvent;  
import java.util.List;  
import java.awt.event.ActionEvent;  
  
/\*\*  
 \* Product Panel UI CLass  
 \* @author Kelvin Dhoman  
 \*  
 \*/  
public class ProductUI extends JFrame {  
  
 private static final long serialVersionUID = 1L;  
   
 /\*\*  
 \* Product UI constructor  
 \* @param windowTitle The title of the product panel  
 \* @param product The product the panel will be created for  
 \*/  
   
 JPanel reviewsArea = new JPanel();  
 Product product;  
  
 public ProductUI(String windowTitle, Product product)  
 {  
 super(windowTitle);   
 this.product = product;  
   
 addWindowListener(new WindowAdapter() {  
 @Override  
 public void windowActivated(WindowEvent e) {  
 // Update cart text button when user focuses on window.  
 refreshUI();  
 }  
 });  
   
 this.setMinimumSize(new Dimension(1000, 650));  
 this.setMaximumSize(new Dimension(1000, 650));  
 this.setResizable(false);  
  
 //Layout and Buttons  
 getContentPane().setLayout(new MigLayout("wrap", "[793.00,grow][::100px,grow]", "[73.00][67.00][177.00][27.00][grow,fill][]"));  
   
 JLabel lblProductName = new JLabel(product.name);  
 lblProductName.setFont(new Font("Tahoma", Font.PLAIN, 18));  
 getContentPane().add(lblProductName, "cell 0 0");  
   
 JButton btnAddToCart = new JButton("Add To Cart");  
 btnAddToCart.addActionListener(new ActionListener() {  
 public void actionPerformed(ActionEvent e) {  
 Cart.getInstance().addProduct(product);  
 JOptionPane.showMessageDialog(null, "Item added to cart.", "Shoplet", JOptionPane.INFORMATION\_MESSAGE);  
 }  
 });  
 btnAddToCart.setPreferredSize(new Dimension(100, 100));  
 getContentPane().add(btnAddToCart, "cell 1 0,alignx center,aligny center");  
   
 JLabel lblProductPrice = new JLabel("Price: " + product.getProductPrice());  
 getContentPane().add(lblProductPrice, "cell 0 1");  
   
 JTextArea txtProductDescription = new JTextArea();  
 txtProductDescription.setWrapStyleWord(true);  
 txtProductDescription.setEditable(false);  
 txtProductDescription.setLineWrap(true);  
 txtProductDescription.setBackground(null);  
 txtProductDescription.setText(product.description);  
 getContentPane().add(txtProductDescription, "cell 0 2,growx,gapright 100,aligny top");  
   
 JLabel lblReviewText = new JLabel("Reviews");  
 getContentPane().add(lblReviewText, "cell 0 3");  
   
 JButton btnLeaveAReview = new JButton("Review");  
 btnLeaveAReview.addActionListener(new ActionListener() {  
 public void actionPerformed(ActionEvent e) {  
 ReviewUI reviewUI = new ReviewUI("Product - " + product.name + " - Review", product);  
 reviewUI.setVisible(true);  
 }  
 });  
 getContentPane().add(btnLeaveAReview, "cell 1 3,alignx right");  
   
 /\*\*  
 JLabel lblNewLabel = new JLabel("No reviews currently...");  
 lblNewLabel.setFont(new Font("Tahoma", Font.PLAIN, 28));  
 getContentPane().add(lblNewLabel, "cell 0 4,alignx center,aligny center");  
 \*\*/  
   
 //Reviews  
 List<Review> productReviews = ShopletSystemManager.getInstance().grab\_reviews(product.product\_id);  
   
 for (int i = 0; i < productReviews.size(); i++)  
 {  
 reviewsArea.add(addReview(productReviews.get(i).review\_id, productReviews.get(i).user\_id  
 ,productReviews.get(i).product\_id, productReviews.get(i).reviewer\_name, productReviews.get(i).review\_rating  
 , productReviews.get(i).review\_content), "span, growx");  
 }  
   
 getContentPane().add(reviewsArea, "cell 0 4 2 2");  
 reviewsArea.setLayout(new BoxLayout(reviewsArea, BoxLayout.Y\_AXIS));  
 }  
   
 /\*\*  
 \* Refreshes UI elements of the window  
 \*/  
 void refreshUI()  
 {  
 reviewsArea.removeAll();  
   
 //Reviews  
 List<Review> productReviews = ShopletSystemManager.getInstance().grab\_reviews(product.product\_id);  
   
 for (int i = 0; i < productReviews.size(); i++)  
 {  
 reviewsArea.add(addReview(productReviews.get(i).review\_id, productReviews.get(i).user\_id  
 ,productReviews.get(i).product\_id, productReviews.get(i).reviewer\_name, productReviews.get(i).review\_rating  
 , productReviews.get(i).review\_content), "span, growx");  
 }  
   
 reviewsArea.revalidate();  
 reviewsArea.repaint();   
 }  
   
 /\*\*  
 \* Creates each review element for the product  
 \* @param review\_id The review id  
 \* @param product\_id The product id  
 \* @param reviewerName the reviewer's name  
 \* @param review\_rating the review's rating  
 \* @param review\_content the review's content  
 \* @return A review panel UI element  
 \*/  
 public JPanel addReview(Integer review\_id, Integer user\_id, Integer product\_id, String review\_name, String review\_rating, String review\_content)  
 {  
 Review review = new Review(review\_id, user\_id, product\_id, review\_name, review\_rating, review\_content);  
   
 // Convert price to 2 decimal places  
 Border border = BorderFactory.createLineBorder(Color.black);  
  
 // Build product entry  
 JPanel reviewPanel = new JPanel(new MigLayout("", "[][]push[][]15", "[]"));  
 reviewPanel.setPreferredSize(new Dimension(1000, 60));  
 reviewPanel.setMaximumSize(new Dimension(1000, 60));  
 reviewPanel.setBackground(Color.white);  
   
 JLabel reviewerLabel = new JLabel(review.reviewer\_name);  
 reviewerLabel.setFont(new Font("Arial", Font.PLAIN, 28));  
 reviewerLabel.setMaximumSize(new Dimension(200, 100));  
 reviewPanel.add(reviewerLabel);  
   
 reviewPanel.add(new JLabel(" Rating: " + review\_rating)).setFont(new Font("Arial", Font.PLAIN, 16));  
 reviewPanel.add(new JLabel(review\_content)).setFont(new Font("Arial", Font.PLAIN, 16));  
   
  
 reviewPanel.setBorder(border);  
  
 // Return the product panel  
 return reviewPanel;  
 }  
  
 /\*\*  
 \* Main  
 \* @param args  
 \*/  
 public static void main(String[] args) {  
 Product dummy = new Product(1, "Dummy", 0, "Dummy", true, 1, false);  
 JFrame frame = new ProductUI("Shoplet - Product", dummy);  
 frame.pack();  
 frame.setLocationRelativeTo(null);  
 frame.setVisible(true);  
 }  
}

ProfileUI.java

package pages\_kelvin;  
import net.miginfocom.swing.MigLayout;  
  
import javax.swing.\*;  
import javax.swing.border.Border;  
import java.awt.\*;  
import java.awt.event.WindowAdapter;  
import java.awt.event.WindowEvent;  
  
/\*\*  
 \* Class for the Profile UI edit window  
 \* @author Kelvin Dhoman  
 \*  
 \*/  
public class ProfileUI extends JFrame {  
  
 private JLabel lblUsername = new JLabel("Username:");  
 private JLabel lblPassword = new JLabel("Password:");  
 private JLabel lblEmail = new JLabel("Email:");  
 private JLabel lblFirstName = new JLabel("First Name:");  
 private JLabel lblLastName = new JLabel("Last Name");  
 private JLabel lblStreetAddress = new JLabel("Street Address:");  
 private JLabel lblCity = new JLabel("City:");  
 private JLabel lblState = new JLabel("State:");  
 private JLabel lblZipcode = new JLabel("Zipcode:");  
 private JLabel lblPhoneNumber = new JLabel("Phone Number:");  
  
 private JTextField txtUsername = new JTextField();  
 private JPasswordField txtPassword = new JPasswordField();  
 private JTextField txtEmail = new JTextField();  
 private JTextField txtFirstName = new JTextField();  
 private JTextField txtLastName = new JTextField();  
 private JTextField txtStreetAddress = new JTextField();  
 private JTextField txtCity = new JTextField();  
 private JTextField txtZipCode = new JTextField();  
 private JTextField txtPhoneNumber = new JTextField();  
 private JComboBox stateComboBox = new JComboBox(StatesList.States);  
  
 public JButton btnUpdateAccount = new JButton("Update Account");  
  
 /\*\*  
 \* Profile UI constructor  
 \* @param windowTitle The window title.  
 \*/  
 public ProfileUI(String windowTitle)  
 {  
 super(windowTitle);  
 this.setMinimumSize(new Dimension(350, 340));  
 this.setMaximumSize(new Dimension(350, 340));  
 this.setResizable(false);  
  
 getContentPane().setLayout(new MigLayout("", "[][]", "[]"));  
  
 getContentPane().add(lblUsername, "cell 0 1");  
 getContentPane().add(lblPassword, "cell 0 2");  
 getContentPane().add(lblEmail, "cell 0 3");  
 getContentPane().add(lblFirstName, "cell 0 4");  
 getContentPane().add(lblLastName, "cell 0 5");  
 getContentPane().add(lblStreetAddress, "cell 0 6");  
 getContentPane().add(lblCity, "cell 0 7");  
 getContentPane().add(lblState, "cell 0 8");  
 getContentPane().add(lblZipcode, "cell 0 9");  
 getContentPane().add(lblPhoneNumber, "cell 0 10");  
  
 getContentPane().add(txtUsername, "cell 1 1");  
 txtUsername.setColumns(25);  
  
 getContentPane().add(txtPassword, "cell 1 2");  
 txtPassword.setColumns(25);  
  
 getContentPane().add(txtEmail, "cell 1 3");  
 txtEmail.setColumns(25);  
  
 getContentPane().add(txtFirstName, "cell 1 4");  
 txtFirstName.setColumns(25);  
  
 getContentPane().add(txtLastName, "cell 1 5");  
 txtLastName.setColumns(25);  
  
 getContentPane().add(txtStreetAddress, "cell 1 6");  
 txtStreetAddress.setColumns(25);  
  
 getContentPane().add(txtCity, "cell 1 7");  
 txtCity.setColumns(25);  
   
 getContentPane().add(stateComboBox, "cell 1 8");  
  
 getContentPane().add(txtZipCode, "cell 1 9");  
 txtZipCode.setColumns(25);  
   
 getContentPane().add(txtPhoneNumber, "cell 1 10");  
 txtPhoneNumber.setColumns(25);  
  
 btnUpdateAccount.setPreferredSize(new Dimension(278, btnUpdateAccount.getHeight()));  
 getContentPane().add(btnUpdateAccount, "cell 1 11");  
 }  
  
 /\*\*  
 \* Main  
 \* @param args  
 \*/  
 public static void main(String[] args) {  
 JFrame frame = new ProfileUI("Shoplet - Profile");  
 frame.pack();  
 frame.setLocationRelativeTo(null);  
 frame.setVisible(true);  
 }  
}

ReviewUI.java

package pages\_kelvin;  
import net.miginfocom.swing.MigLayout;  
  
import javax.swing.\*;  
import javax.swing.border.Border;  
  
import datebase\_jon.Product;  
import datebase\_jon.ShopletSystemManager;  
  
import java.awt.\*;  
import java.awt.event.WindowAdapter;  
import java.awt.event.WindowEvent;  
import java.awt.event.ActionListener;  
import java.awt.event.ActionEvent;  
  
/\*\*  
 \* Review UI class  
 \* @author Kelvin Dhoman  
 \*  
 \*/  
public class ReviewUI extends JFrame {  
  
 private JLabel lblUsername = new JLabel("Review (1-5 Stars):");  
 private JLabel lblPassword = new JLabel("Review Text:");  
  
 public JButton btnPost = new JButton("Post");  
 private final JTextArea textArea = new JTextArea();  
 SpinnerModel sm = new SpinnerNumberModel(1, 1, 5, 1); //default value,lower bound,upper bound,increment by  
 private final JSpinner txtReviewStars = new JSpinner(sm);  
  
 /\*\*  
 \* Review UI constructor  
 \* @param windowTitle The window title for the constructor.  
 \*/  
 public ReviewUI(String windowTitle, Product product)  
 {  
 super(windowTitle);  
 this.setMinimumSize(new Dimension(350, 340));  
 this.setMaximumSize(new Dimension(350, 340));  
 this.setResizable(false);  
  
 getContentPane().setLayout(new MigLayout("", "[][grow]", "[][][grow][][]"));  
  
 getContentPane().add(lblUsername, "cell 0 1");  
 getContentPane().add(lblPassword, "cell 0 2");  
 textArea.setLineWrap(true);  
   
 getContentPane().add(textArea, "cell 1 2,grow");  
 btnPost.addActionListener(new ActionListener() {  
   
 public void actionPerformed(ActionEvent e) {  
   
 if (textArea.getText().isEmpty())  
 {  
 JOptionPane.showMessageDialog(null, "One or more missing fields.", "Shoplet", JOptionPane.ERROR\_MESSAGE);  
 }  
 else  
 {  
 ShopletSystemManager.getInstance().add\_review(  
 ShopletSystemManager.getInstance().current\_user\_id, product.product\_id  
 , ShopletSystemManager.getInstance().grab\_user\_info(ShopletSystemManager.getInstance().current\_user\_id).firstname + " " + ShopletSystemManager.getInstance().grab\_user\_info(ShopletSystemManager.getInstance().current\_user\_id).lastname.charAt(0)  
 , txtReviewStars.getValue().toString()  
 , textArea.getText());  
   
 setVisible(false);  
 JOptionPane.showMessageDialog(null, "Review Successfully Posted", "Shoplet", JOptionPane.INFORMATION\_MESSAGE);  
 }  
 }  
   
 });  
  
 btnPost.setPreferredSize(new Dimension(278, btnPost.getHeight()));  
 getContentPane().add(btnPost, "cell 1 11");  
   
 getContentPane().add(txtReviewStars, "cell 1 1");  
 }  
  
 /\*\*  
 \* Main  
 \* @param args  
 \*/  
 public static void main(String[] args) {  
 JFrame frame = new ReviewUI("Shoplet - Review", new Product());  
 frame.pack();  
 frame.setLocationRelativeTo(null);  
 frame.setVisible(true);  
 }  
}

StatesList.java

package pages\_kelvin;  
  
/\*\*  
 \* State list for dropdown uses  
 \* @author Kelvin Dhoman  
 \*  
 \*/  
public class StatesList {  
   
 // Contains all the states to access.  
 public static String[] States =  
 {  
 "AK - Alaska",  
 "AL - Alabama",  
 "AR - Arkansas",  
 "AZ - Arizona",  
 "CA - California",  
 "CO -Colorado",  
 "CT - Connecticut",  
 "DC - District of Columbia",  
 "DE - Delaware",  
 "FL - Florida",  
 "GA - Georgia",  
 "HI - Hawaii",  
 "IA - Iowa",  
 "ID - Idaho",  
 "IL - Illinois",  
 "IN - Indiana",  
 "KY - Kentucky",  
 "LA - Louisiana",  
 "MA - Massachusetts",  
 "MD - Maryland",  
 "ME - Maine",  
 "MI - Michigan",  
 "MN - Minnesota",  
 "MI - Missouri",  
 "MS - Mississippi",  
 "MT - Montana",  
 "NC - North Carolina",  
 "ND - North Dakota",  
 "NE - Nebraska",  
 "NH - New Hampshire",  
 "NJ - New Jersey",  
 "NM - New Mexico",  
 "NV - Nevada",  
 "NY - New York",  
 "OH - Ohio",  
 "OK - Oklahoma",  
 "OR - Oregon",  
 "PA - Pennsylvania",  
 "PR - Puerto Rico",  
 "RI - Rhode Island",  
 "SC - South Carolina",  
 "SD - South Dakota",  
 "TN - Tennessee",  
 "TX - Texas",  
 "UT - Utah",  
 "VA - Virginia",  
 "VT - Vermont",  
 "WA - Washington",  
 "WI - Wisconsin",  
 "WV - West Virginia",  
 "WY - Wyoming"  
 };  
}

userProfileUI.java

package pages\_kelvin;  
import java.awt.EventQueue;  
  
import javax.swing.JFrame;  
import javax.swing.JPanel;  
import javax.swing.border.EmptyBorder;  
  
/\*\*  
 \* User Profile Class  
 \* @author Kelvin Dhoman  
 \*  
 \*/  
public class userProfileUI extends JFrame {  
  
 private JPanel contentPane;  
  
 /\*\*  
 \* Launch the application.  
 \*/  
 public static void main(String[] args) {  
 EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 try {  
 userProfileUI frame = new userProfileUI();  
 frame.setVisible(true);  
 } catch (Exception e) {  
 e.printStackTrace();  
 }  
 }  
 });  
 }  
  
 /\*\*  
 \* Create the frame.  
 \*/  
 public userProfileUI() {  
 setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);  
 setBounds(100, 100, 1001, 650);  
 contentPane = new JPanel();  
 contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));  
  
 setContentPane(contentPane);  
 }  
  
}