Software Requirements and Design Document

for

Marry Manage

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● **Introduction**

○ **Purpose**

The purpose of this Software Requirements Specification (SRS) document is to outline the functional and non-functional requirements for the development of the "Marry Manage – Marriage Events Planning System." This software aims to provide a user-friendly platform for individuals planning to get married in Pakistan. The document specifies the scope of the product, detailing the features and capabilities that will be included in the product.

○ **Product Scope**

The scope of the Wedding Planner App is to offer a comprehensive and user-friendly solution to anyone planning to get married anywhere across Pakistan.

○ **Title :**

● ***"Marry Manage – Marriage Events Planning System"***

○ **Objectives**

Marry Manage, an admin-managed platform, is dedicated to simplifying wedding planning by seamlessly connecting customers with vendors, including marriage halls, catering services and more. We prioritize users' preferences, feasibility, and budget, ensuring a tailored and hassle-free experience designed exclusively for Pakistani weddings.

○ **Problem Statement**

● Problem Statement:
Planning weddings in Pakistan is a complex task due to cultural nuances, intricate budget management, and the challenge of finding reliable vendors and an affordable yet perfect marriage hall. Cultural intricacies deeply rooted in traditions add layers of complexity, requiring tailored solutions. Budget management is crucial, as couples navigate various elements contributing to the event's grandeur. Vendor reliability is pivotal, and the lack of a trustworthy platform adds uncertainty. Finding an ideal, budget-friendly marriage hall is a formidable challenge. The absence of a centralized resource compounds difficulties, leaving couples without a comprehensive guide.

Overall, addressing these challenges demands a sophisticated and tailored approach that considers the unique dynamics of Pakistani weddings.

● **Overall Description**

○ **Product Perspective**

● <u>Description:</u>
The Wedding Planner App for Pakistan is designed to simplify wedding planning. With our app, couples gain access to a comprehensive suite of budget management tools, making it easy to set, track, and optimize their wedding expenses. We also streamline connections between couples and registered wedding vendors, allowing vendors to showcase their services and portfolios while helping couples effortlessly find the right vendors for their special day. Moreover, our app features a dedicated marriage hall search function, enabling couples to search for venues based on factors like price, location, personal preferences, and ratings, ensuring they discover the perfect setting for their dream wedding. With these powerful tools, couples can navigate wedding planning with ease, reduce stress, and enhance the joy of their special celebration.

○ **Product Functions**

Vendor Functions:

Manage Portfolio:
Upload and showcase services, products, or offerings.
Add detailed descriptions, images, and pricing information.
Edit and update portfolio content for accuracy and relevance.

Create/Delete Account:
Register as a vendor on the platform.
Provide necessary information for account creation.
Option to delete or deactivate the vendor account when needed.

Register:
Registration process for vendors to join the platform.
Verification steps to ensure the authenticity of vendor accounts.

Add/Update/Delete Portfolio:
Ability to add new items, services, or products to the portfolio.
Update portfolio details, including descriptions and prices.
Remove or deactivate items that are no longer offered.

View Orders:
Access a dashboard displaying orders received from customers.
View order details, customer information, and order status.

Customer Functions:

Search Vendor:
Utilize filters to search for vendors based on location, type of service, price range, and budget compatibility.
Real-time updating of search results as filters are applied.

Real-time Updation:
Receive real-time updates on vendor availability, new offerings, or changes in portfolio.
Instant notifications on promotions, discounts, or special offers.

Create/Delete Account:
User-friendly registration process for customers.
Option to delete or deactivate the customer account when necessary.

Helpline:
Access a helpline feature for customer support and query resolution.
Seek assistance regarding account issues, navigation, or general inquiries.

Admin Functions:

Helpline:
Monitor and manage the helpline to address user queries and concerns.
Provide assistance to both vendors and customers as needed.

Delete Users:
Admin authority to remove or deactivate user accounts for various reasons.
Ensure platform integrity and user compliance.

Overall Platform Management:
Oversee the overall functioning of the platform.
Monitor and manage system resources to ensure optimal performance.
These functions collectively contribute to the seamless operation of the "Marry Manage – Marriage Events Planning System," facilitating effective communication and interaction between vendors, customers, and administrators.

○   **List of Use Cases**

1. *Search Vendor*
2. *Register Users*
3. *Check Orders*
4. *Place Order*
5. *Cancel Order*
6. *Remove User*
7. *Make Payment*
8. *Feedback*
9. *Manage Portfolio*
10. *Notify Users*
11. *Contact Helpline*

○   **Extended Use Cases**

Use Case 1: - (TAYYAB)

Name	Search Vendor
Scope of the system under design	Marry Manage
Level	User Level Goal
Primary Actors	Customer
Stake Holders and Interests	- Vendors: Wants their services to be marketed and used by as many customers as possible - Customer: Will be able to search vendor according to their preferences
Pre-Conditions	- The Customer should be registered on the app - There should be vendor registered on the app.
Post-Conditions	- A vendor is found according to the specific needs of the user

Main Success Scenario	USER ACTION	SYSTEM RESPONSE
		1) The system asks the user what type of vendor he wants – marriage halls or caterers.
	2) The user selects the type of vendor he wants – marriage halls or caterers.	
		3) The system asks whether the user wants to search vendor by name or by filters.
	4) The user enters whether he wants to search vendor by filters or by name.	
	5) If the user wants to search by filters, he selects the specific filters, such as price and location, to sort the vendors	
		6) After selecting the filters, the user clicks search and the system sorts vendor according to the filters.
Extension	1) If the user wants to search by name, he searches the name of the vendor. 2) If the vendor is registered, it appears on the screen 3) If the customer isn't registered, perform use case Registration. 4) If there is no vender, in accordance with the mentioned names or filters, display "No vendors found".	

Use Case 2: - (ABDULLAH)

Name	Register Users
Scope of the system under design	Marry Manage
Level	User Level Goal
Primary Actors	Customers, Vendors
Stake Holders and Interests	- Admin: Wants to connect registered vendors to customers. - Users: Want to use the features of the app designed for them
Post-Conditions	- Each user is registered on the app and assigned a user name and a password for their account.
Main Success Scenario	**USER ACTION** / **SYSTEM RESPONSE** (see below)
Extensions	1) If the user does not enter any of the compulsory details, the system should generate a message stating that registration was unsuccessful

USER ACTION	SYSTEM RESPONSE
	1) system asks the user whether he is a customer or a vendor
2) The user selects whether he is a customer or a vendor.	
3) Both the users have to enter their names, CNIC, Address and their contact details	
	4) The system enters the registered users in a database and assigns them a username and a password.

Use Case 3: - (ABDULLAH)

Name	Check Orders
Scope of the system under design	Marry Manage
Level	User Level Goal
Primary Actors	Vendor
Stake Holders and Interests	- Vendor: Want to view all their orders.
Pre-Conditions	- Vendor should be registered. - Vendor should have a portfolio. - Vendor should have atleast one order placed by the customer.
Post-Conditions	- A list of orders is displayed to the vendor

Main Success Scenario	**USER ACTION** **SYSTEM RESPONSE**
	
	1) Vendor clicks the button check orders 2) The system displays a table of order to the vendor.
	        3) The table contains list of all the orders, along with the details of the order, its delivery date and details of the customer.
	        4) A status is also displayed which shows whether the order is complete, pending, missed or cancelled.

Extensions	1) System should display an empty list message if no order is assigned to the vendor. 2) If the vendor hasn't added a business, display a message to run the Manage Portfolio use case.

Use Case 4: - (TAYYAB)

Name	Place Order	
Scope of the system under design	Marry Manage	
Level	User Level Goal	
Primary Actors	Customer	
Stake Holders and Interests	- Customer: Wants to place an order to a vendor - Vendors: Want to take an order from a customer	
Pre-Conditions	- Vendor must be found through the search function.	
Post-Conditions	An order is booked by the customer.	
Main Success Scenario	**USER ACTION**	**SYSTEM RESPONSE**
	1) The customer selects his desired vendor from a list of vendors. 2) The customer selects on which date they want to avail the services of the vendor.	3) The system books the order and places it in the database.
Extensions	1) If the vendor is not found using the search use case, the customer should be prompted to run the search use case again. 2) If the vendor is not available on the specified date, the booking should not proceed further and the customer should be prompted whether he wants to proceed with other vendors.	

Use Case 5: - (TAYYAB)

Name	Cancel Order	
Scope of the system under design	Marry Manage	
Level	User Level Goal	
Primary Actors	User (Customer, Vendor)	
Stake Holders and Interests	- User: Wants to cancel an already placed order due to some reason	
Pre-Conditions	- An order should be placed by the customer. - Payment should not have been made.	
Post-Conditions	- The order is cancelled.	
Main Success Scenario	**USER ACTION**	**SYSTEM REPONSE**
	1) The user clicks on the order from the list of displayed orders. 2) The user clicks on the cancel order button.	3) The system removes the order from the database.
Extensions	1) If payment for the order is already made then we cannot cancel order 2) A vendor should not cancel the order on the event date	

Use Case 6: - (ABDULLAH)

Name	Remove User
Scope of the system under design	Marry Manage
Level	User level goal
Primary Actors	Admin, Vendor, Client
Stake Holders and Interests	- Admin wants to remove a vendor or a customer due to some reasons. - If a user doesn't want to use this platform, they can delete their account permanently.
Pre-Conditions	- The user to be removed should already be registered on the platform - If the user is a customer, they should not have placed an order - If the user is a vendor, he should not have a pending order
Post-Conditions	- The user account is deleted

Main Success Scenario	**USER ACTION**	**SYSTEM RESPONSE**
	1) The admin clicks the remove user button.	2) The system asks whether we want to remove a customer or a vendor.
	3) The admin selects a user from the list and deletes it.	
	4) User clicks delete account button.	
		5) System asks for confirmation and the account is removed permanently.

Extensions	1) If the user is associated with an order, the system should display an appropriate message and direct the admin towards cancel order use case (to remove this order)

USE CASE 7: - (TAYYAB)

Name	Make Payment
Scope of the system under design	Marry Manage
Level	User Level Goal
Primary Actors	Vendor, Client
Stake Holders and Interests	- Vendor: Wants to receive payment in a secure and efficient manner through a payment system. - Customer: Wants to pay for the requested service to vendor whilst protecting their personal information.
Pre-Conditions	- The user should already be registered on the platform - The order is booked.
Post-Conditions	- The Payment is done.

Main Success Scenario	**USER ACTION**	**SYSTEM RESPONSE**
	1) The customer proceeds to the Payment button. 3) User will choose the payment method i.e., via Mastercard, Easypaisa etc.	2) The system will display the total bill according to the services chosen. 4) The system will run the notify users use case and the vendor will receive payment for its service.

Extensions	1) In case of invalid amount, display an appropriate prompt or cancel order.

USE CASE 8: - (TAYYAB)

Name	Feedback	
Scope of the system under design	Marry Manage	
Level	System Level Goal	
Primary Actors	Vendor, Client	
Stake Holders and Interests	- Vendor wants to get review and ratings by the clients on the corresponding service they provide.	
Pre-Conditions	- The user should avail service from particular vendor to provide feedback	
Post-Conditions	- Feedback will be shown on vendor portfolio.	
Main Success Scenario	**USER ACTION**	**SYSTEM RESPONSE**
	1) The customer decides if they want to give a feedback for a particular vendor they used. 3) The client will fill out the form and submit it.	2) The system displays a feedback form to the user 4) The system stores this feedback in the database.
Extensions	1) No feedback on a vendor if their order was cancelled. 2) No feedback if client refuses to give one.	

USE CASE 9: - (ABDULLAH)

Name	Manage Portfolio
Scope of the system under design	Marry Manage
Level	User Level Goal
Primary Actors	Vendor
Stake Holders and Interests	- Vendor: wants to show case his businesses and attract customer - Customer: Wants to avail services provided by a vendor
Pre-Conditions	- The vendor should be registered on the platform. - The business should have a name, description, pricing, rating, capacity, contact details to add. - To update or delete a business a business should already exist.
Post-Conditions	- A new business is added. - An existing business is updated or deleted.

Main Success Scenario	**USER ACTION**	**SYSTEM RESPONSE**
	1) The vendor selects that they want to add a new business. 3) The vendor adds the details of the business and clicks the add button.	2) The system asks for specific details of the business 4) The system adds this business in the database.

Extensions	1) If the user wants to update or delete a business, the system makes changes in the database accordingly 2) If there is no existing business a vendor cannot delete or update a business. 3) If the user does not enter a name, description, pricing, rating, capacity or contact details, the business will not add.

USE CASE 10: - (ABDULLAH)

Name	Notify Users
Scope of the system under design	Marry Manage
Level	System Level Goal
Primary Actors	Vendor, Client
Stake Holders and Interests	- User: Customer and Vendor want to be notified when their order is booked, completed, cancelled or paid for.
Pre-Conditions	- An order should be booked by the customer.
Post-Conditions	- A specific notification will be sent to the customer or vendor about their order

Main Success Scenario	**USER ACTION**	**SYSTEM RESPONSE**
	1) The customer runs the place order use case. 3) The customer clicks the check notification button .	2) The system will store appropriate notification in the database. 4) The System will load the notification from the database and display it to the customer
Extensions	1) Points 2 to 4 will be repeated for the vendor when he gets an order. 2) Same steps of notification will be followed when payment is confirmed, an order is cancelled and order is completed 3) If an order is not booked, the customer will be prompted to run the place order use case. 4) If an order is not booked, no notifications for order payment, completion, cancellation	

USE CASE 11: - (ABDULLAH)

Name	Contact Helpline	
Scope of the system under design	Marry Manage	
Level	System Level Goal	
Primary Actors	Admin	
Stake Holders and Interests	- User: Wants to resolve their query. - Admin: Wants to resolve the query of its user.	
Pre-Conditions	- The vendor or customer should be registered on the platform.	
Post-Conditions	- The admin is contacted.	
Main Success Scenario	**USER ACTION**	**SYSTEM RESPONSE**
	1) The user is going to click the "about us" button.	
		2) The system will display the contact details of the admin
	3) The user will use one of the mediums to contact the admin.	
Extensions	- If the user is unable to contact the admin display prompt "try again".	

○   **Use Case Diagram**
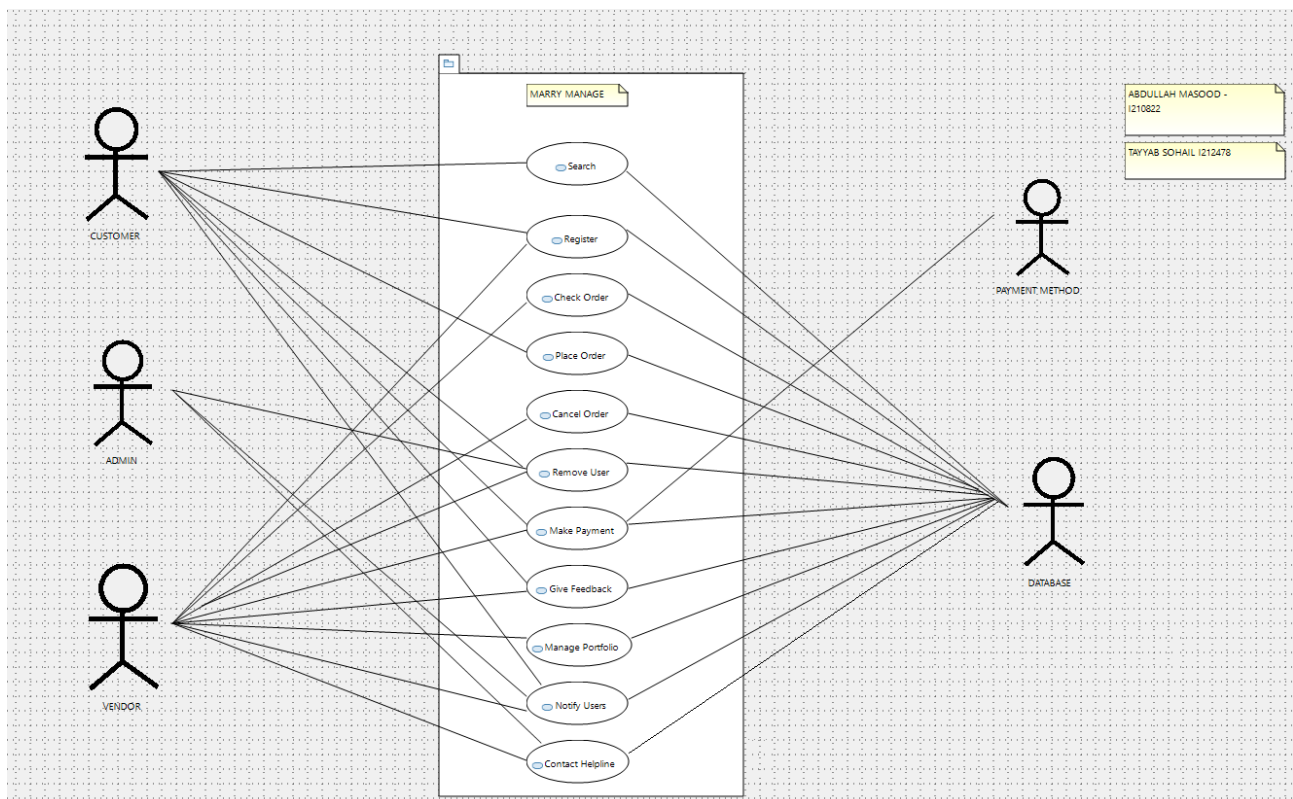
● Other Nonfunctional Requirements

○ Performance Requirements

Response Time:
The system should respond to user interactions within 2 seconds to ensure a seamless and efficient user experience.
The response time for critical actions, such as placing an order or making a payment, should be within 1 second.

Scalability:
The system should be capable of handling a growing user base, with the ability to scale resources to accommodate increased traffic during peak wedding seasons.

Database Query Time:
Database queries, especially during vendor searches, should execute within 3 seconds to provide users with quick and relevant results.

○ Safety Requirements

User Data Protection:
The system must comply with data protection regulations to ensure the safety and privacy of user information.
Implement secure data transmission protocols (e.g., HTTPS) to safeguard sensitive information during online transactions
.
Order Cancellation Safeguards:
To prevent misuse, orders can only be canceled before a certain time period before the event date, ensuring vendors have sufficient notice.

○ Security Requirements

Authentication:
Users (both customers and vendors) must undergo secure authentication processes, such as password protection and multi-factor authentication, to access the system.

Data Encryption:
All user data, especially payment information, should be encrypted to protect against unauthorized access or data breaches.

○   **Software Quality Attributes**

Usability:
The user interface should be intuitive, ensuring that users can perform essential actions without extensive training.
Usability testing will be conducted with a diverse group of users to ensure inclusivity.

Reliability:
The system should be available 99.9% of the time to avoid disruptions during critical wedding planning stages.

○   **Business Rules**

Vendor Registration:
Vendors must complete a comprehensive registration process, providing accurate business details and contact information.

Order Placement:
Customers can only place an order after successfully finding a vendor through the search function.
Payments are required to confirm an order, ensuring commitment from both parties.

Cancellation Policy:
Order cancellations can only be made within a specified timeframe before the event date.
Vendors cannot cancel an order on the event date unless there are exceptional circumstances.

Feedback and Ratings:
Customers can provide feedback and ratings only for vendors they have availed services from, preventing unfair or baseless reviews.
Vendors can respond to customer feedback, fostering communication and resolution.

○   **Operating Environment**

• Operating System Compatibility
The software is platform-independent and can seamlessly operate on any operating system that supports Java. This includes, but is not limited to Windows, macOS, Linux distributions and Unix based systems. The Java Virtual Machine (JVM) provides the necessary abstraction layer, allowing the software to run consistently across diverse operating systems.

• Database Compatibility
The software is designed to be compatible with various database management systems, ensuring flexibility in data storage. It can peacefully coexist with popular database servers, including MySQL MongoDB, and Database Microsoft SQL Server. The system utilizes Java Database Connectivity (JDBC) to interact with databases, facilitating compatibility with a wide range of database servers

○   **User Interfaces**

MAIN PAGE
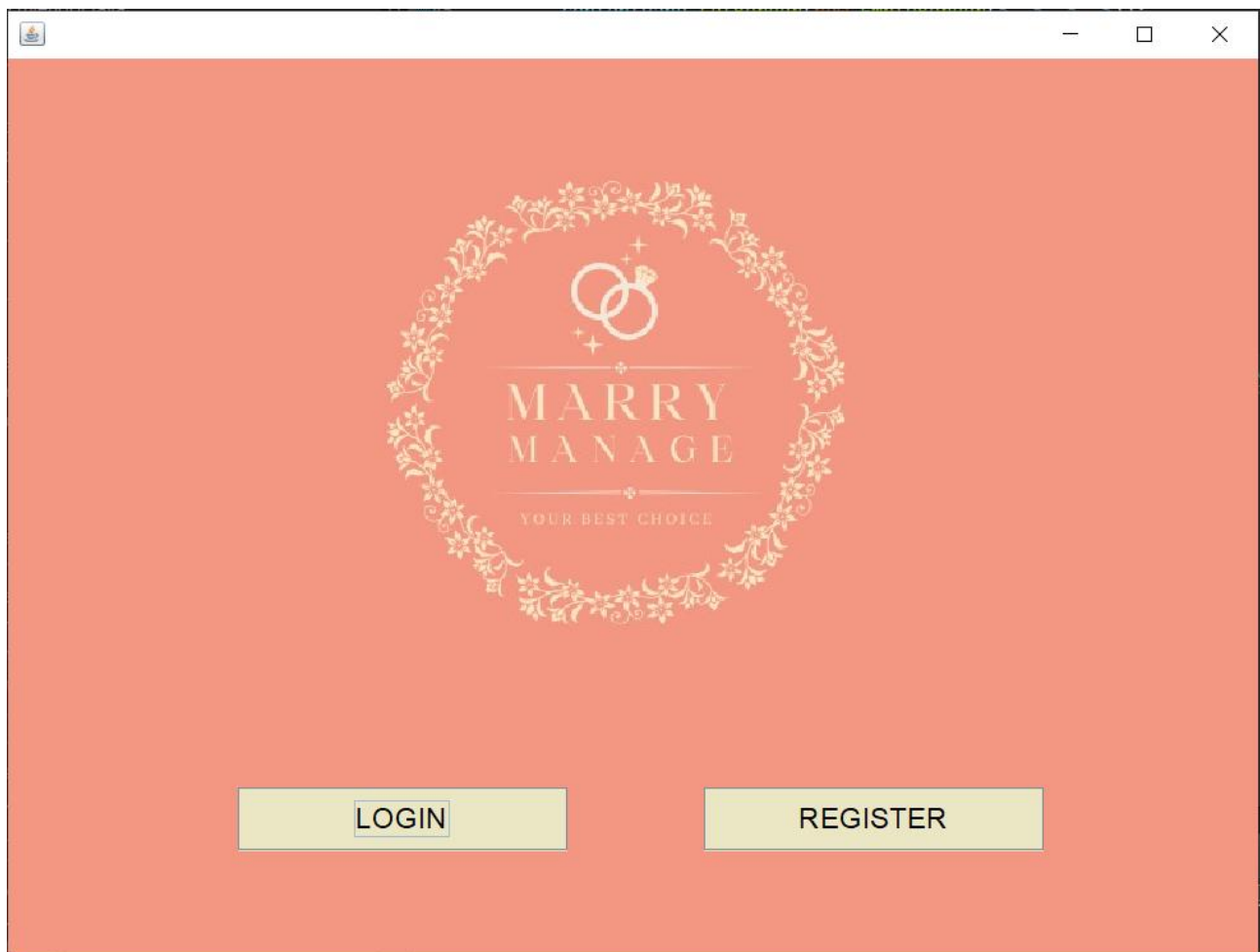
LOGIN/REGISTRATION:

This is the main page of the system through which login and register functions are carried on. There
is a main **login in button** and if the user is new, he/she can create a **Vendor/Customer account.**

MANAGE PORTFOLIO
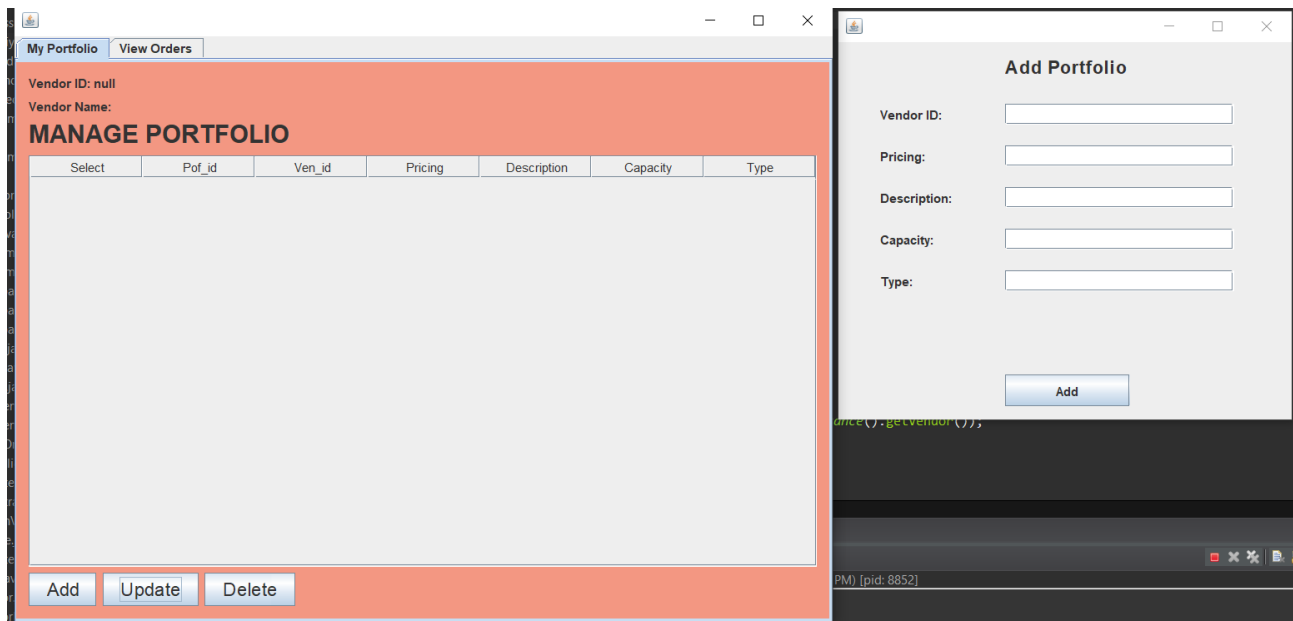
This interface is used by Vendor to create his/her new portfolios **ADD, UPDATE, DELETE** their portfolios.

My Portfolio	View Orders

VIEW ORDERS

Order ID	Customer ID	Order Details	Status
ORD-1	CUS-12	Order 1 Details	COMPLETED
ORD-2	CUS-12	Order 2 Details	COMPLETED
ORD-3	CUS-13	Order 3 Details	PENDING
ORD-4	CUS-12		PENDING
ORD-5	CUS-12	luxury needed	COMPLETED
ORD-6	CUS-12	nothing	COMPLETED
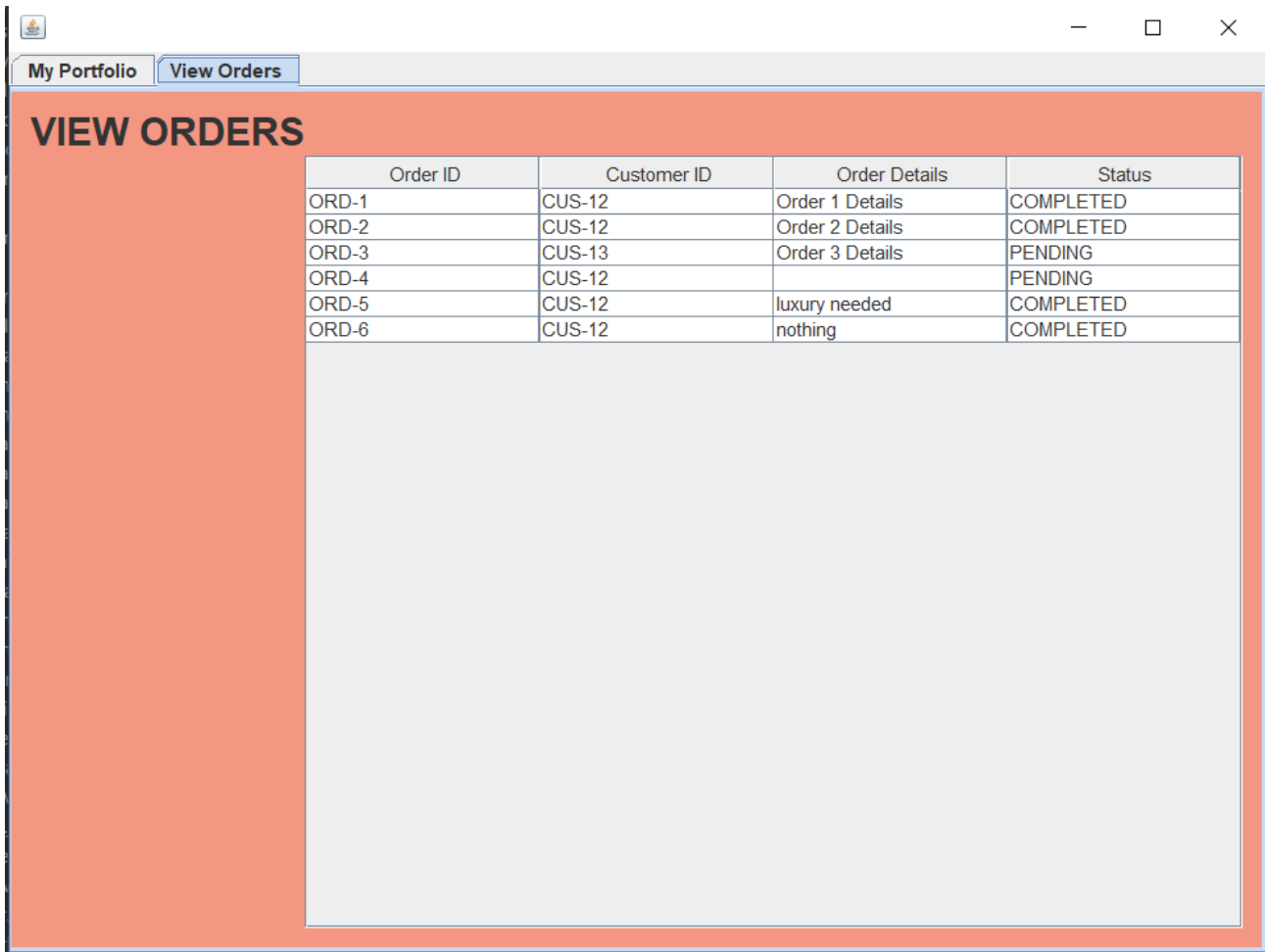
This is also used by Vendor to see their orders

SEARCH VENDOR

This contains filters and search bar which can be selected to BOOK an ORDER

VIEW ORDER and FEEDBACK
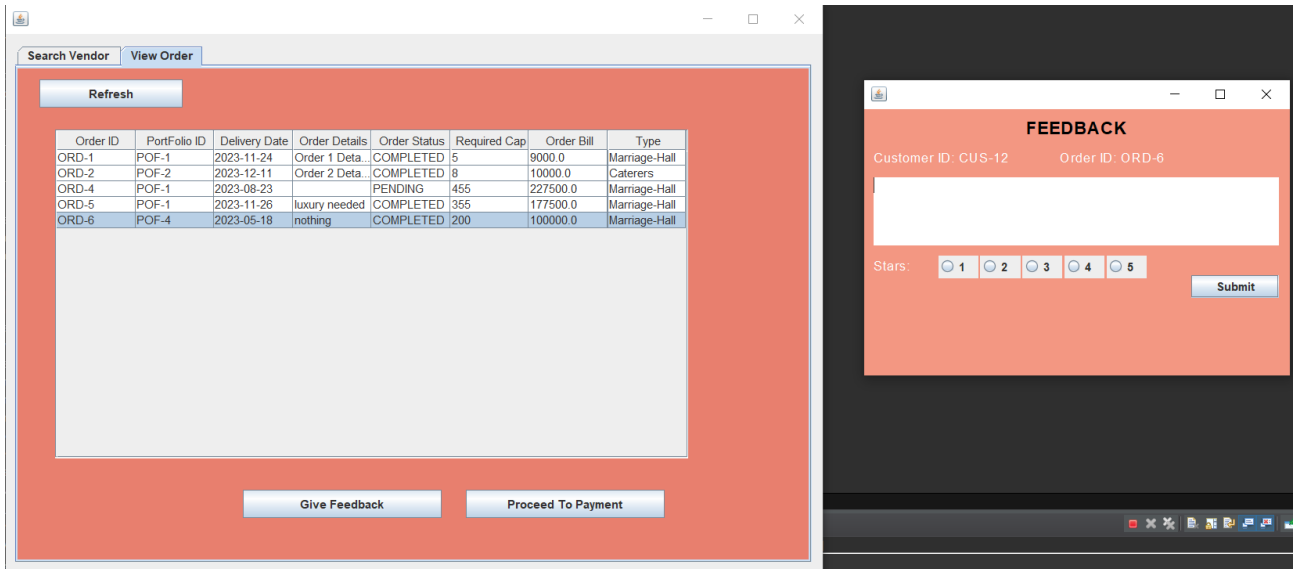
USED BY CUTOMER TO PROCEED TO PAYMENT and CHECK STATUS OF THEIR ORDER

Customer can also give valuable feedback and give STARS as ratings

PAYMENT

This contains users total balance , the ability to cancel transaction and and OrderID, PaymentID and business name
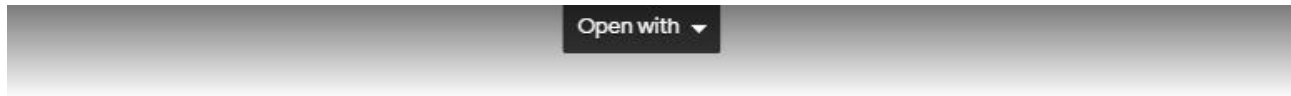
● **Domain Model**
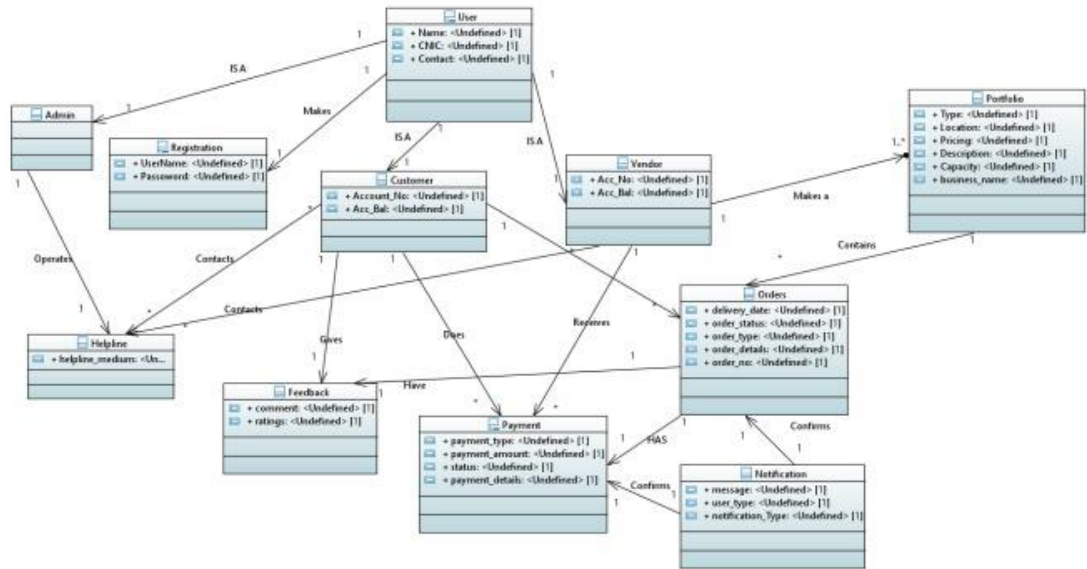
● **System Sequence Diagram**

1. Search Vendor:
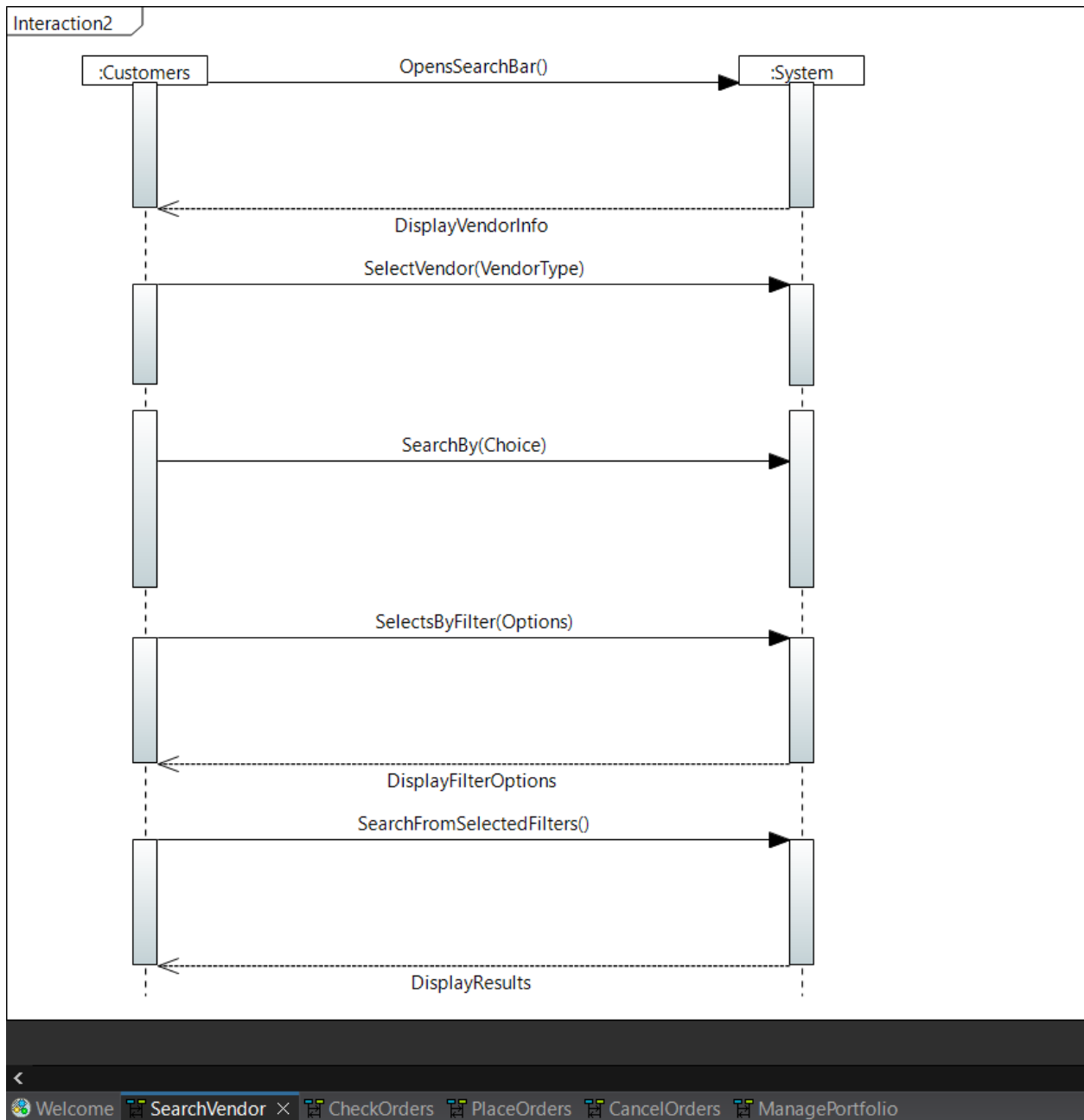
2. Check Orders:
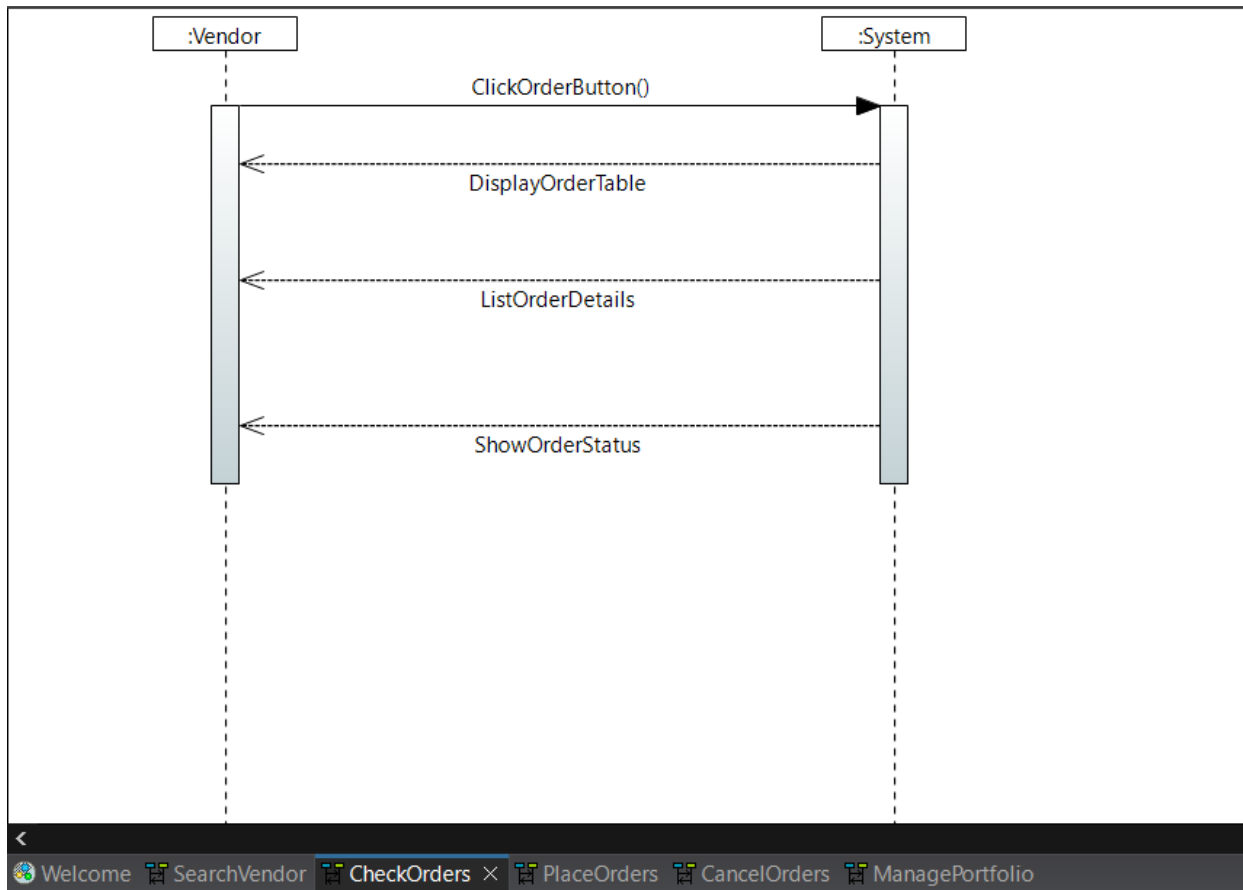
3. Place Order
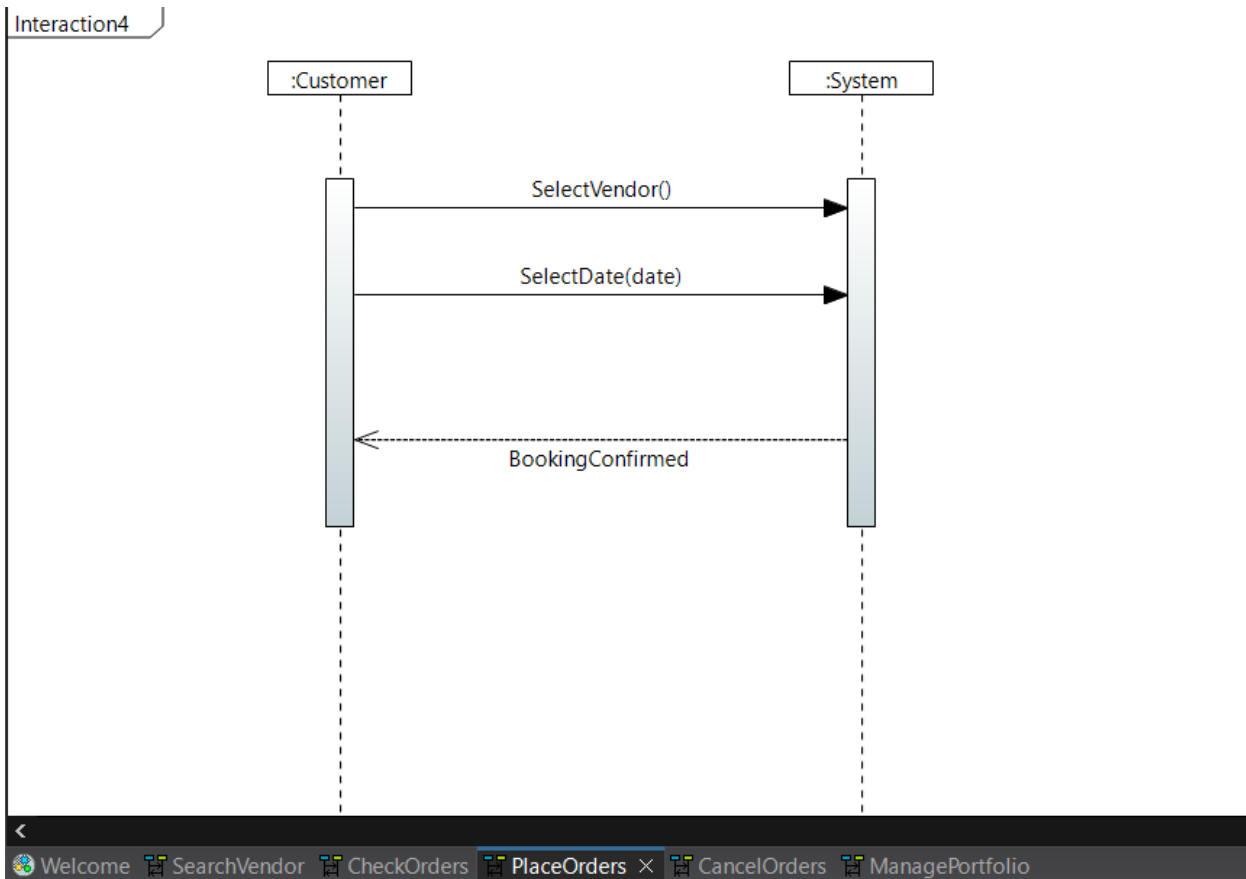
4. Cancel Order
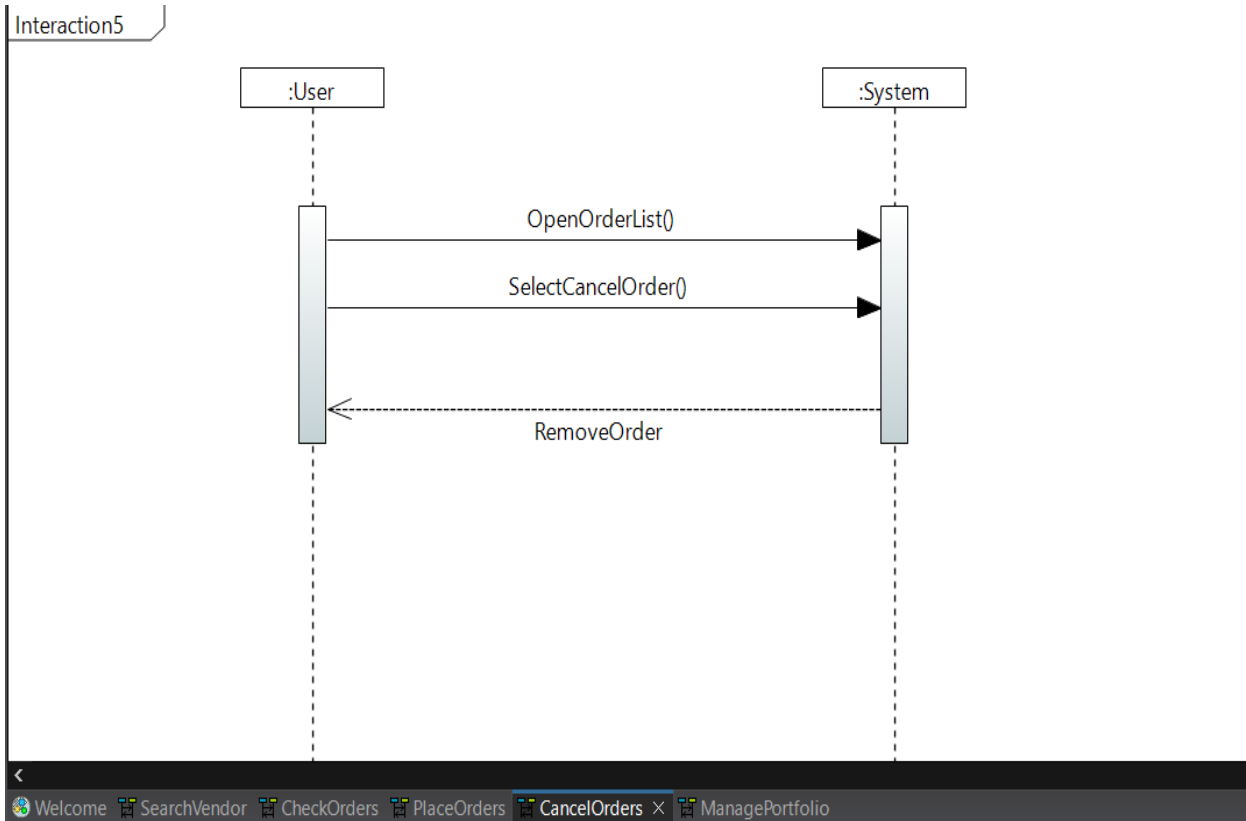
5. Manage Portfolio
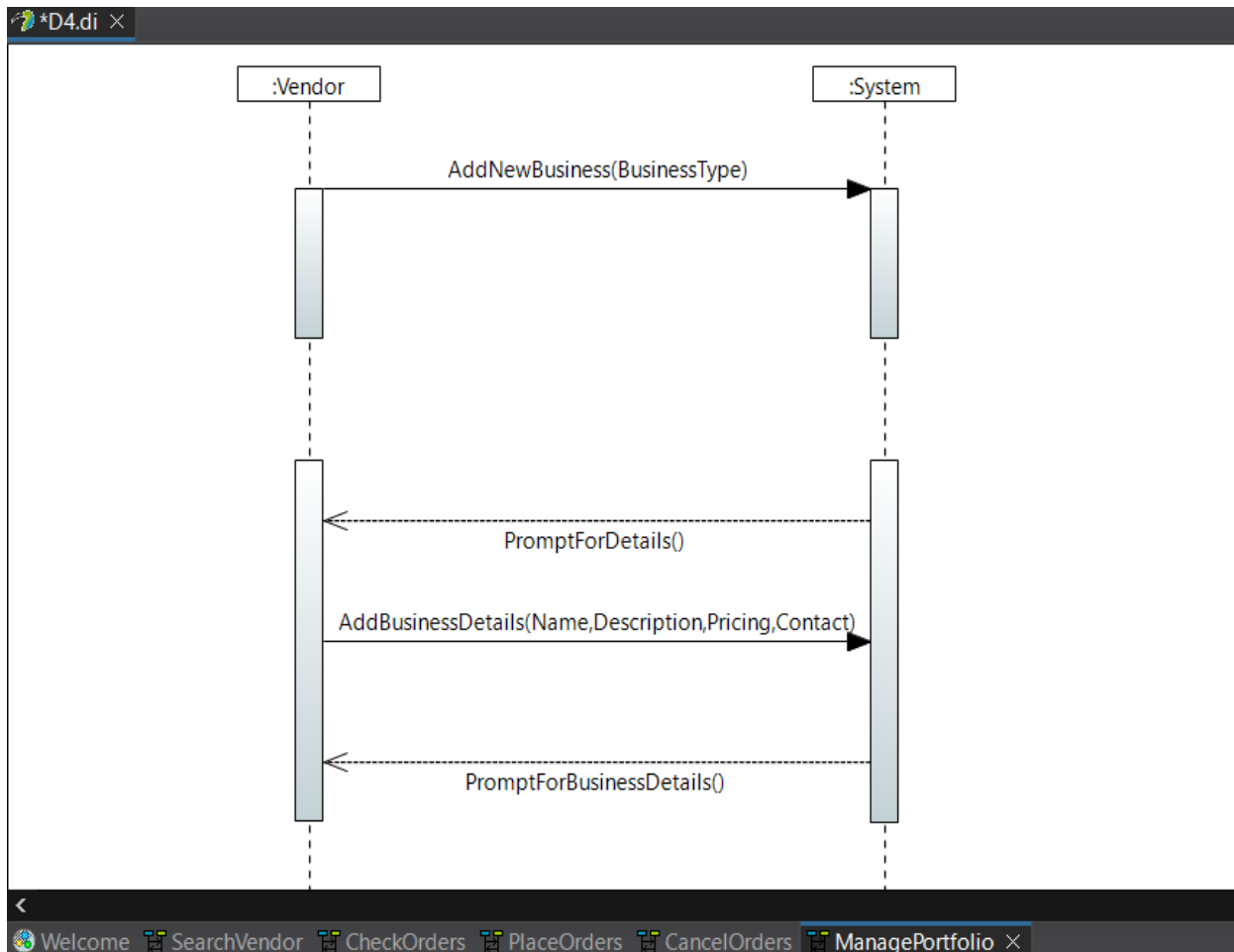
6. Helpline
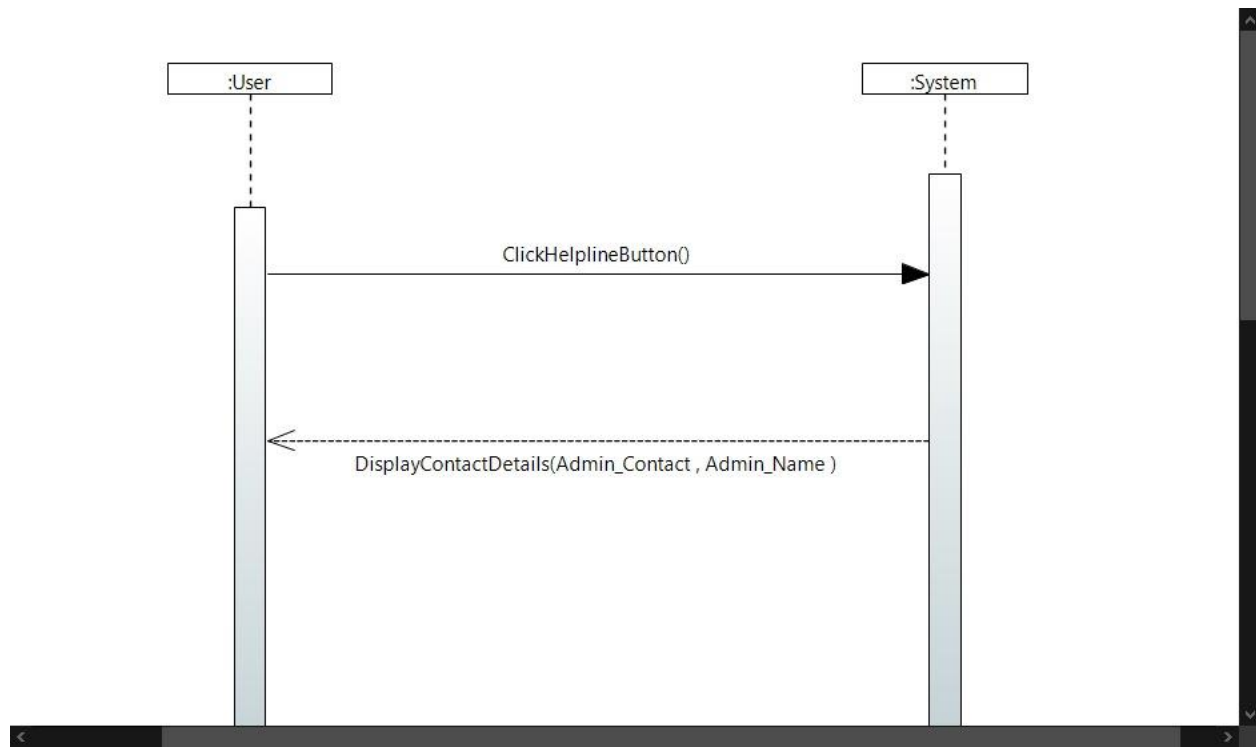
7. Notify User
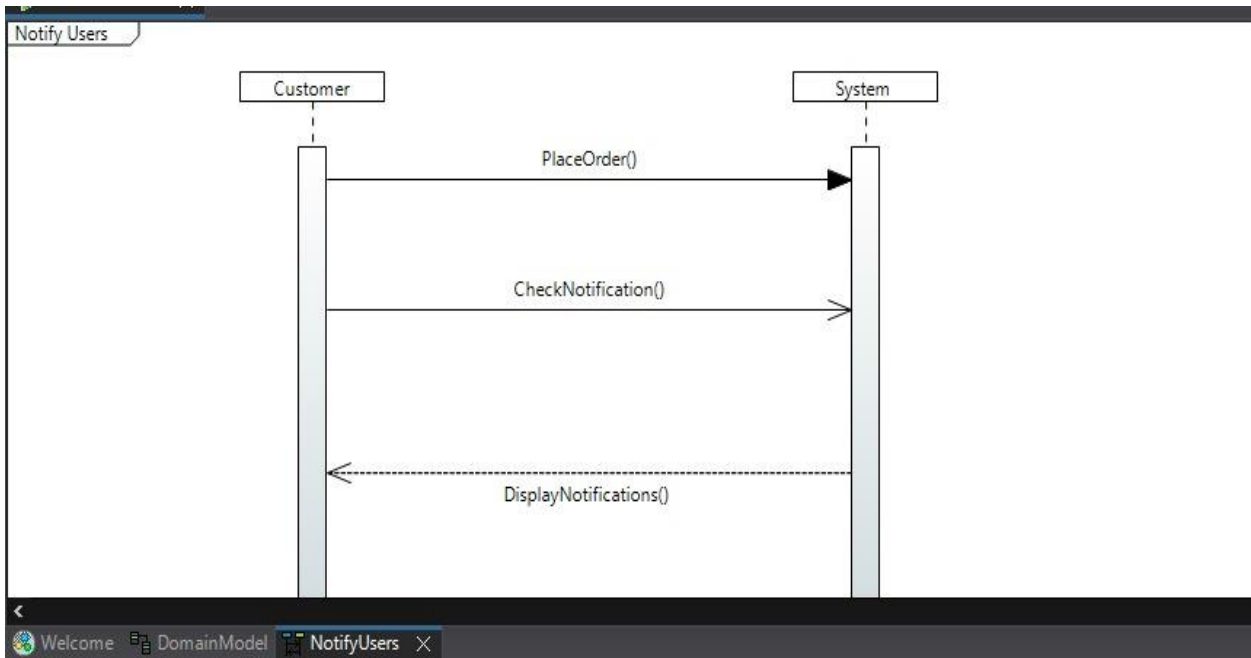
8. Feedback
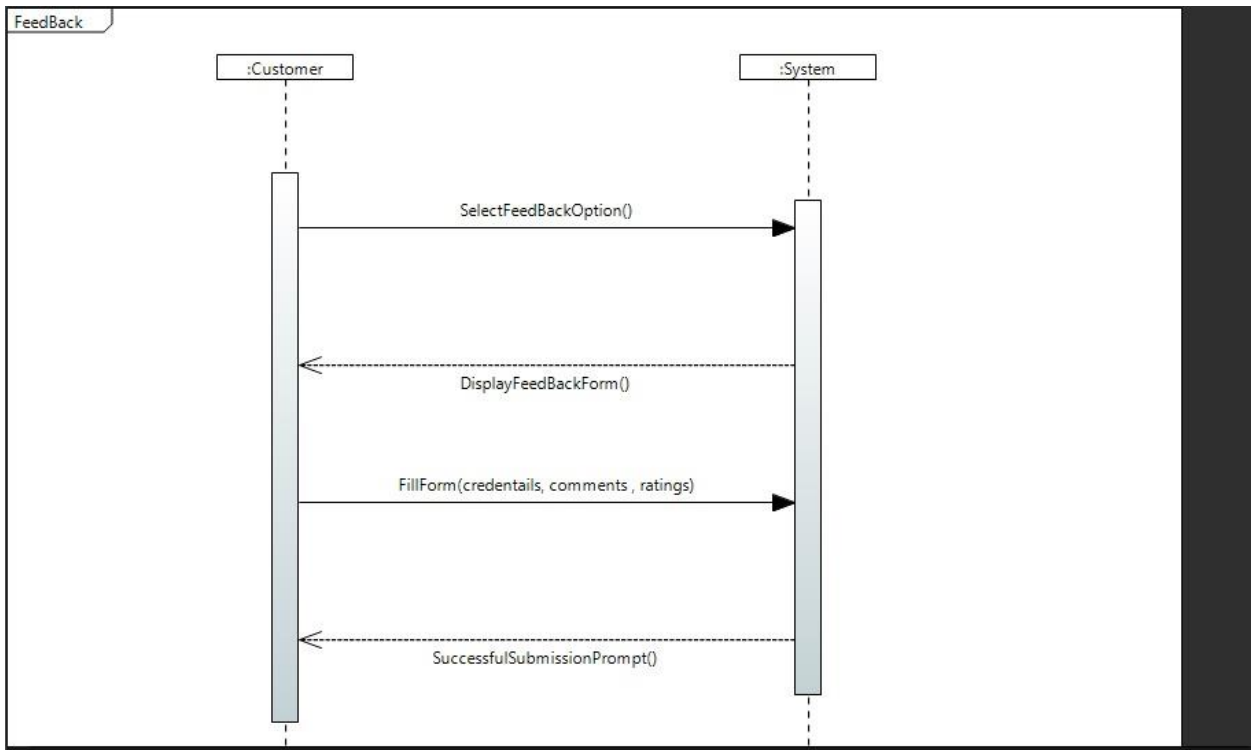
9. Make Payment
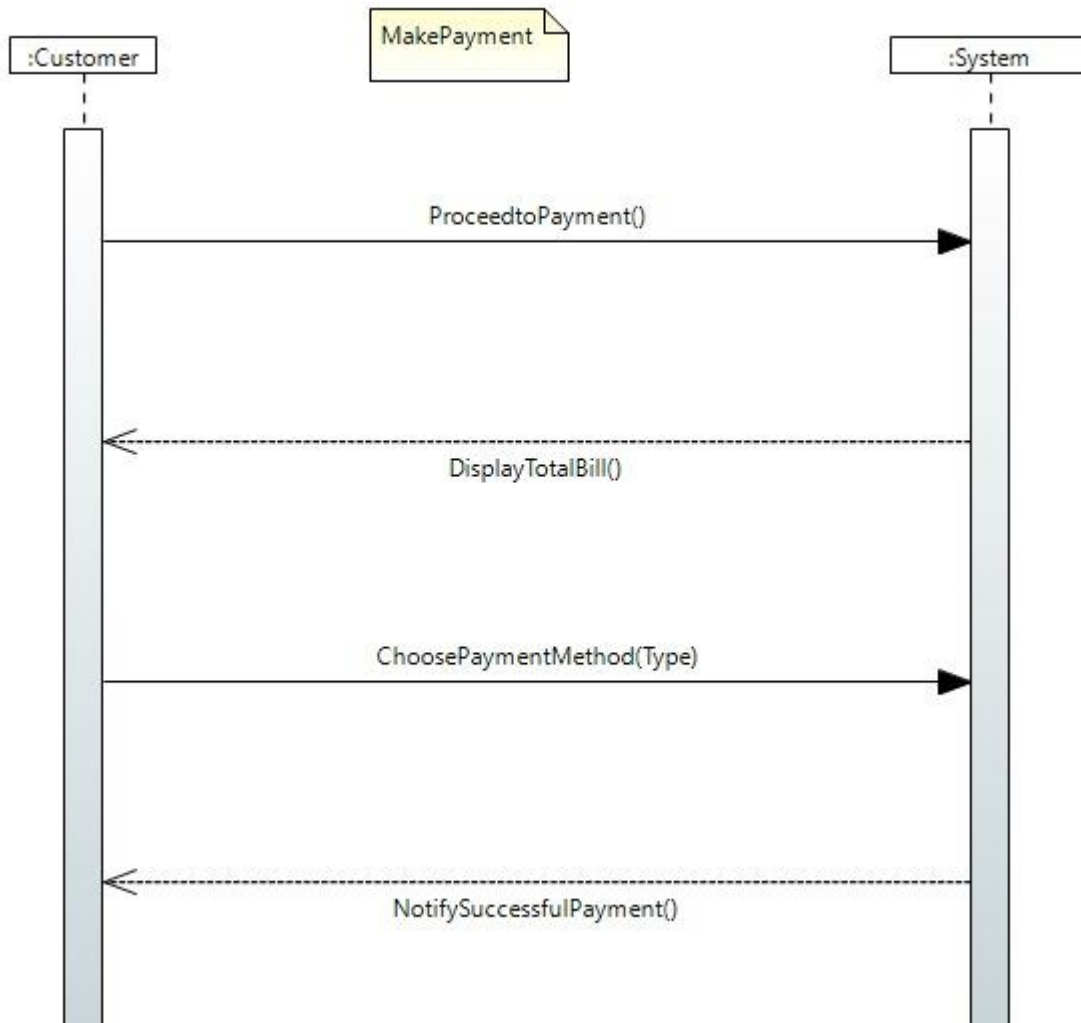
10.   RemoveUser
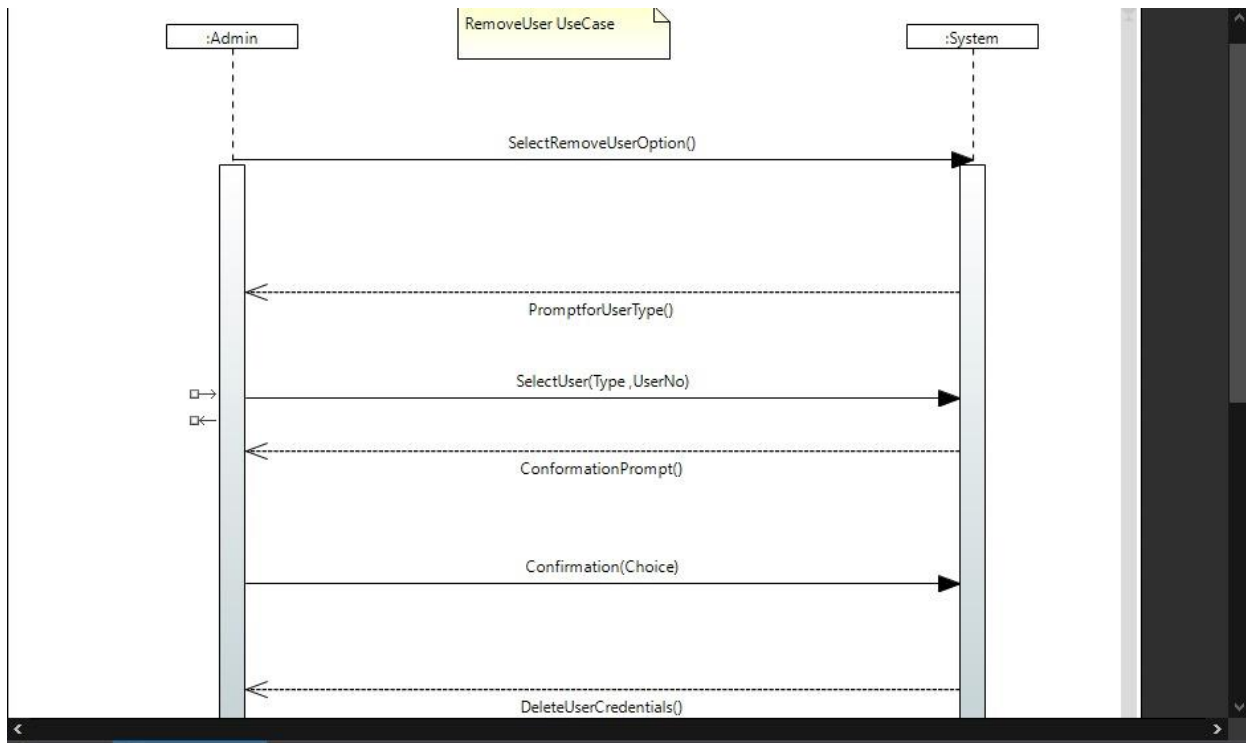
11. Registration
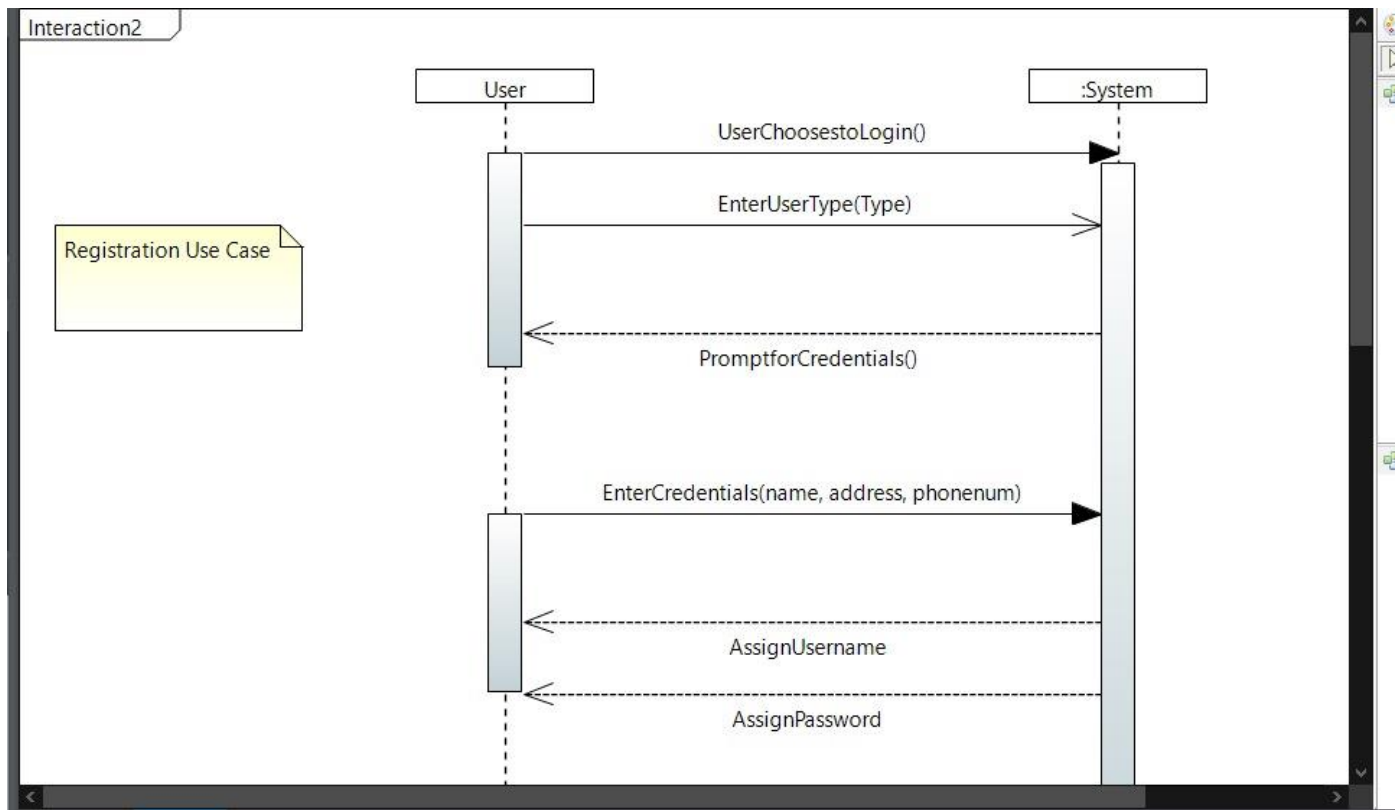
● **Sequence Diagram**

CHECK ORDER

CANCEL ORDER:

Interaction9

| :Menu | c:Customer | o:Orders |

CancelOrder()

FetchFromDB(order_id, order_type ,delivery_date)

DisplayOrders(order_id, type,deliverydate)

SelectOrderToRemove(order_id , option)

RemoveOrderfromDB(order_id, order_type ,delivery_date

DisplayRemoveMessage()
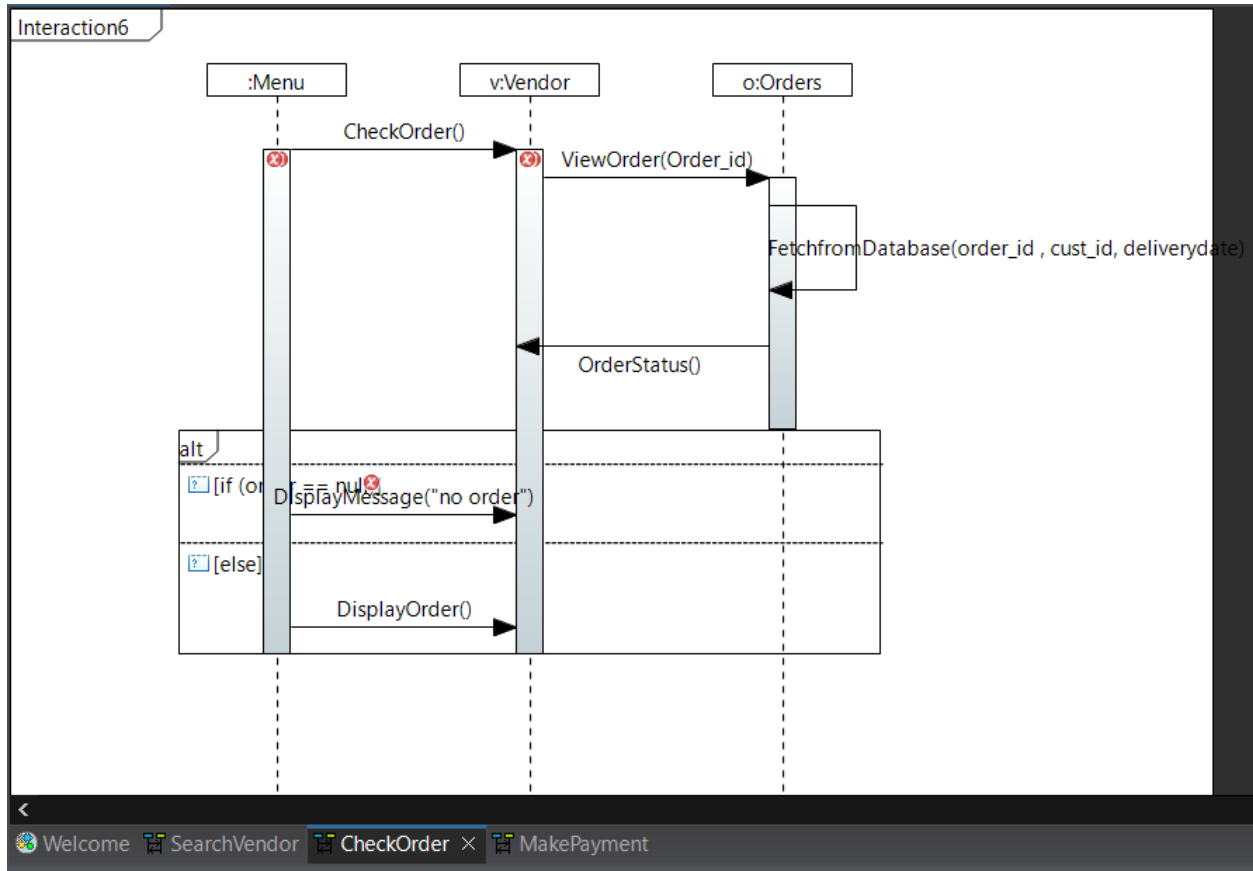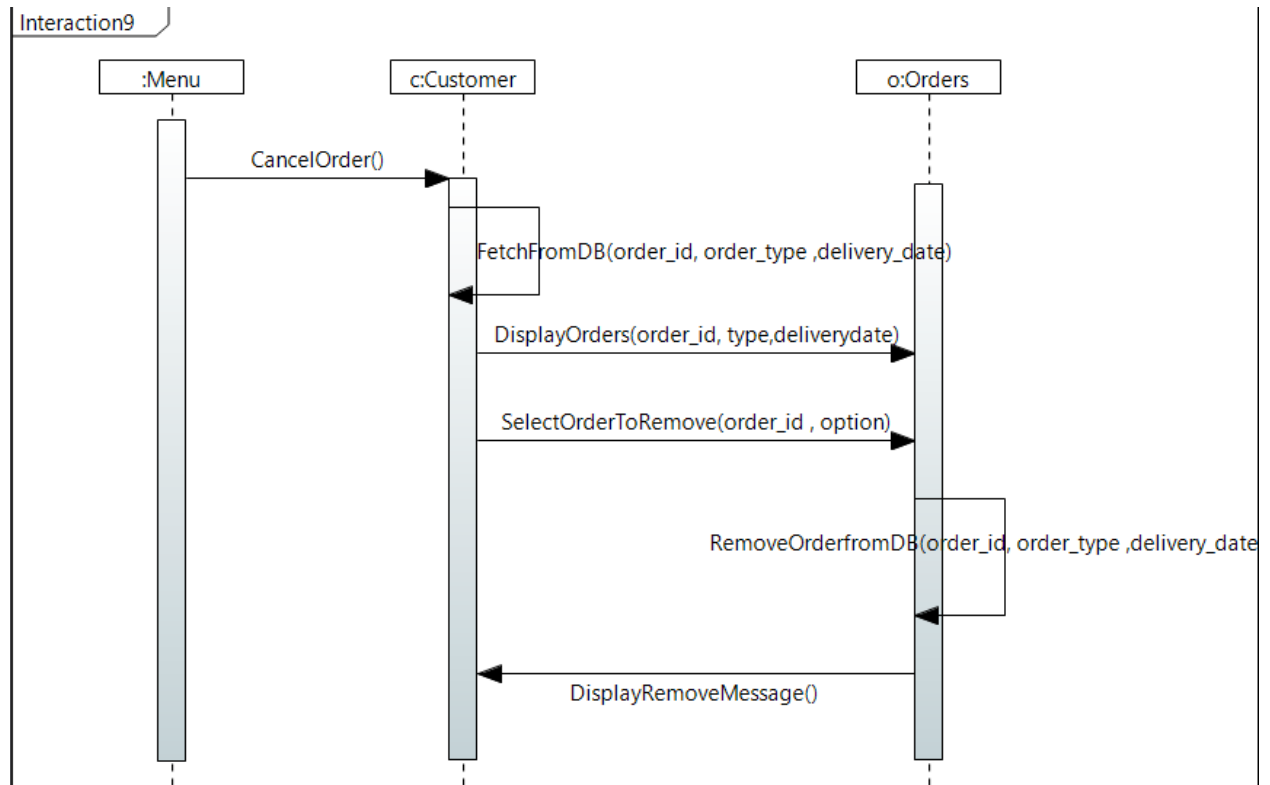
HELPLINE:
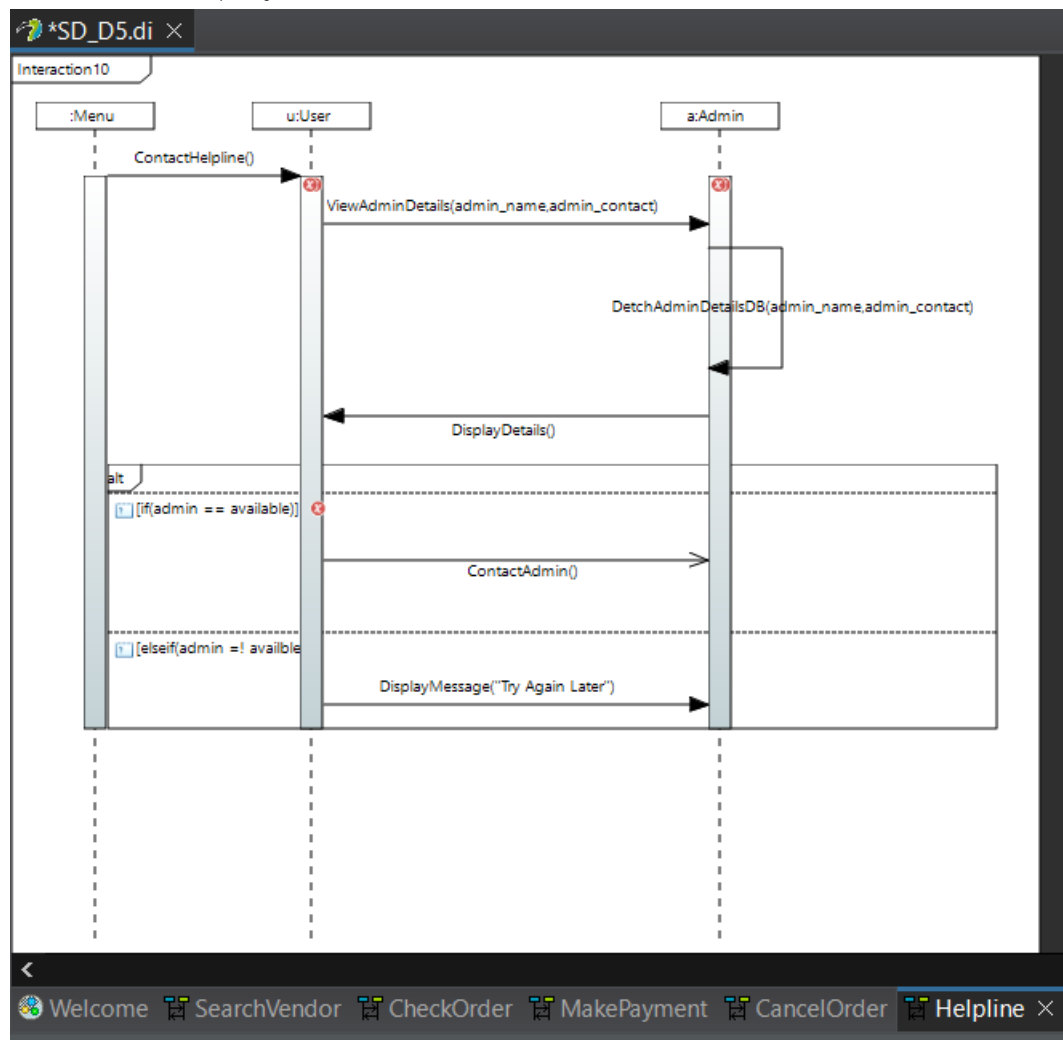
NOTIFY USERS:
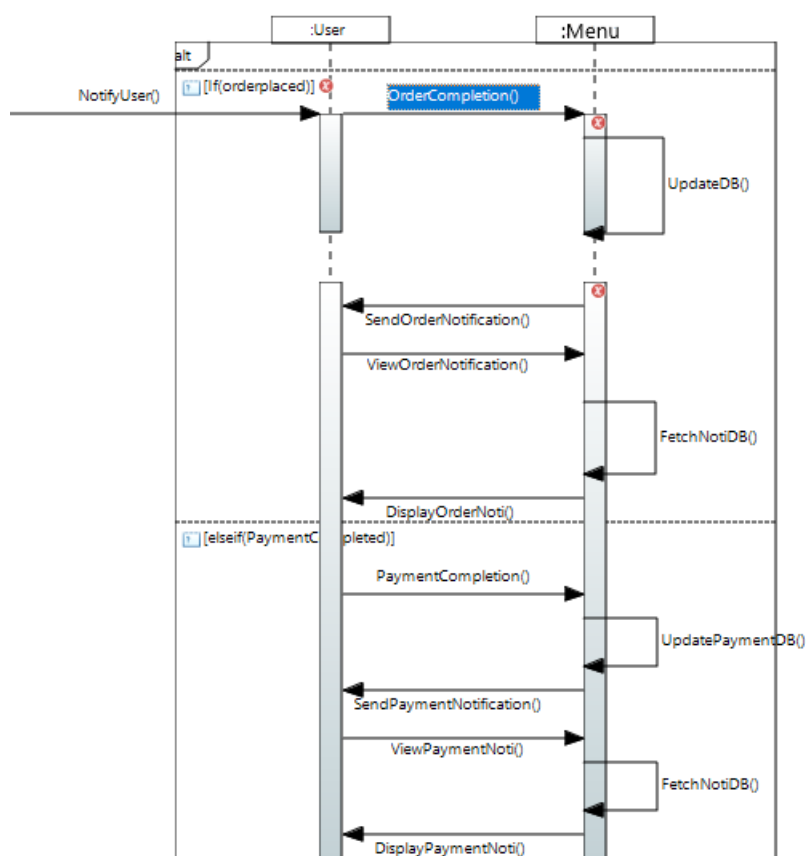
REMOVE USERS:
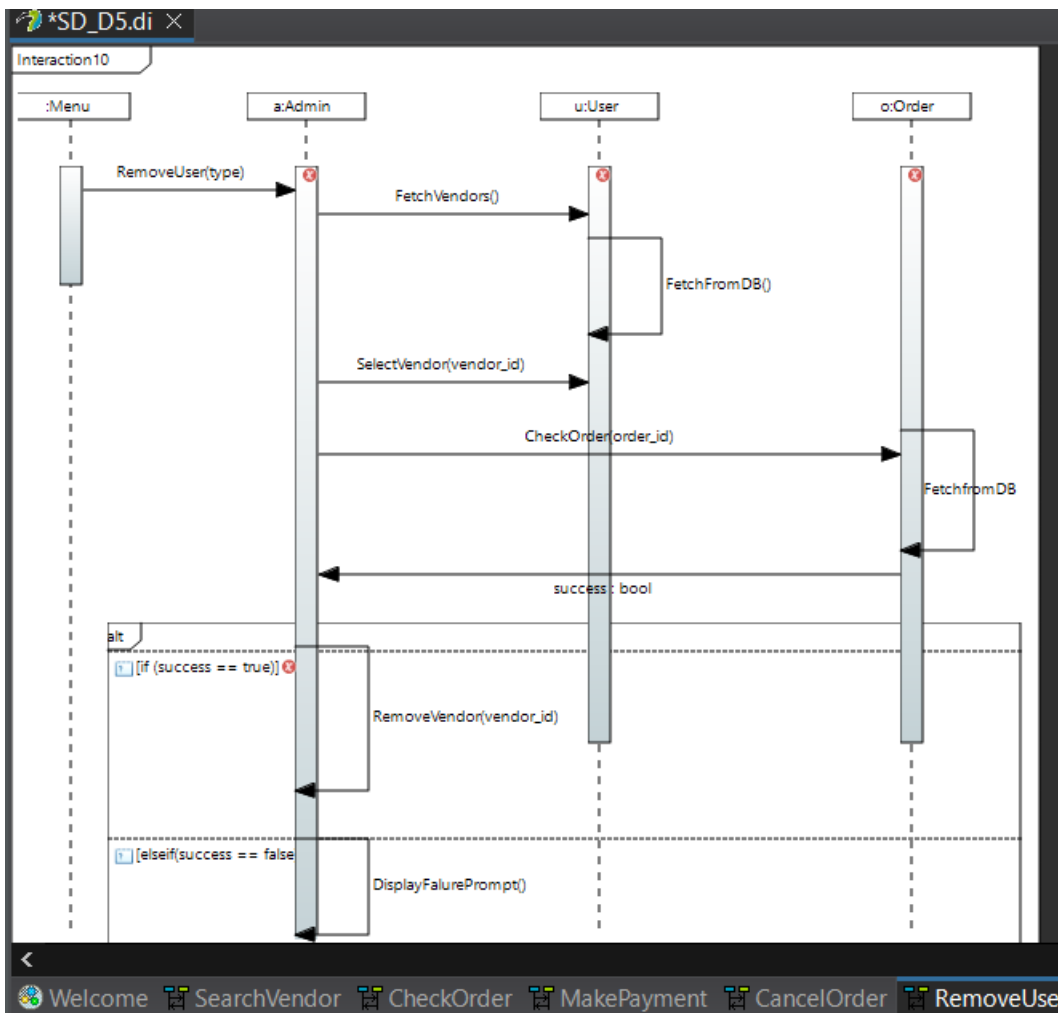
SEARCH VENDOR:
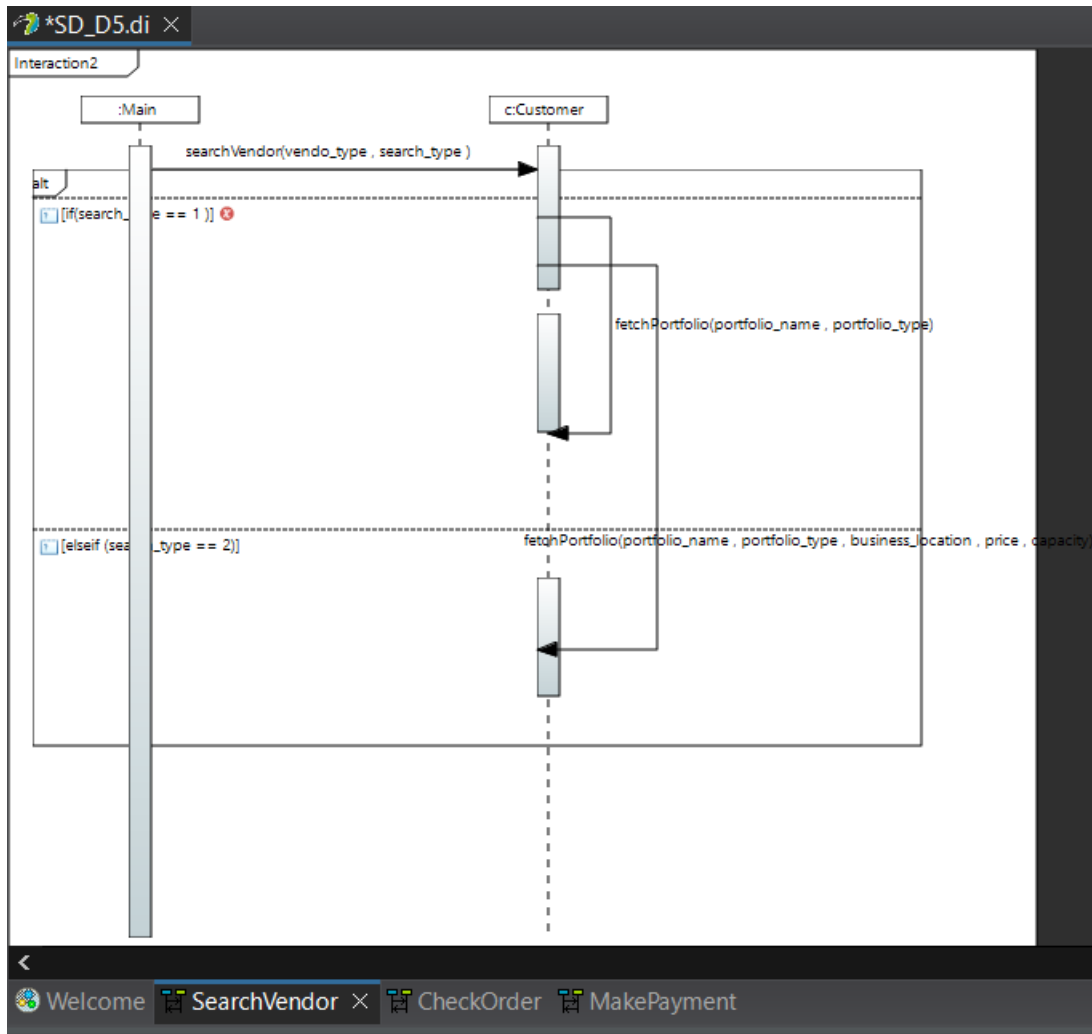
REGISTER:
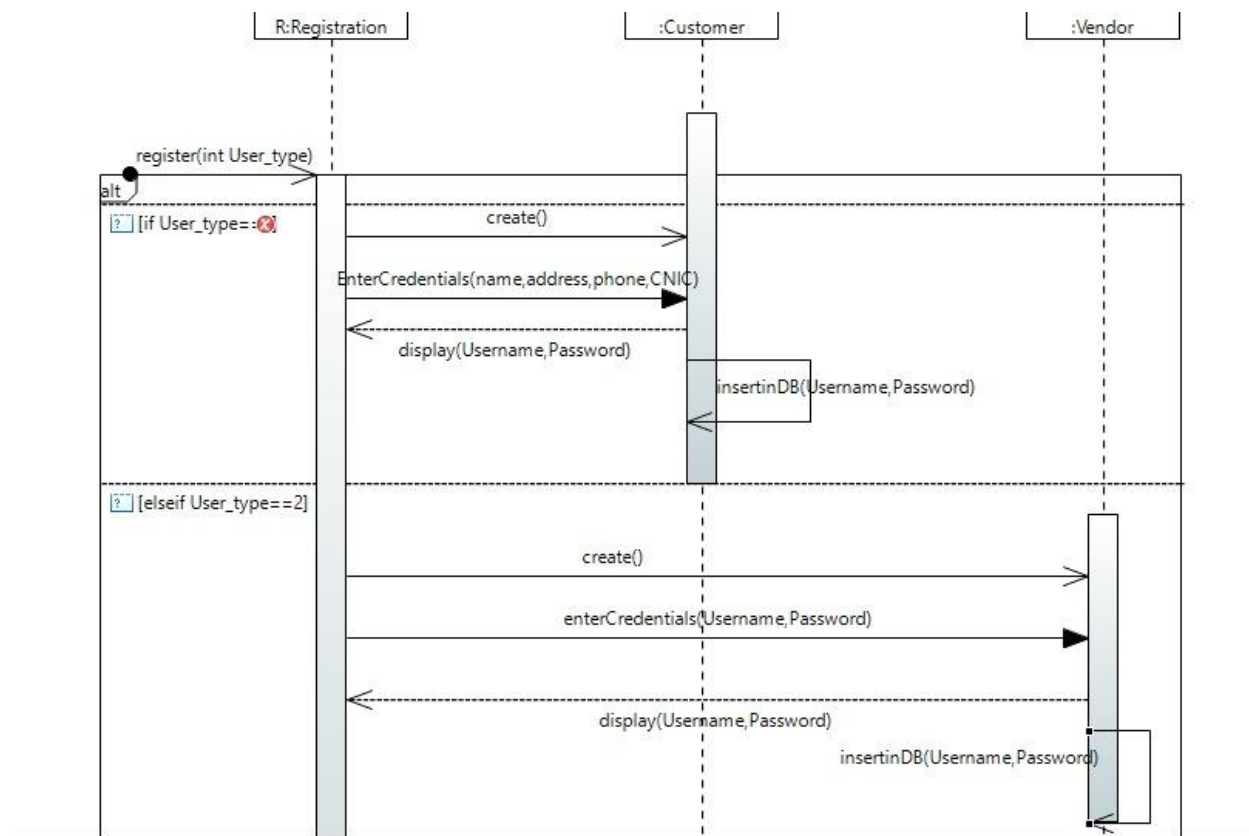
MAKE PAYMENT:
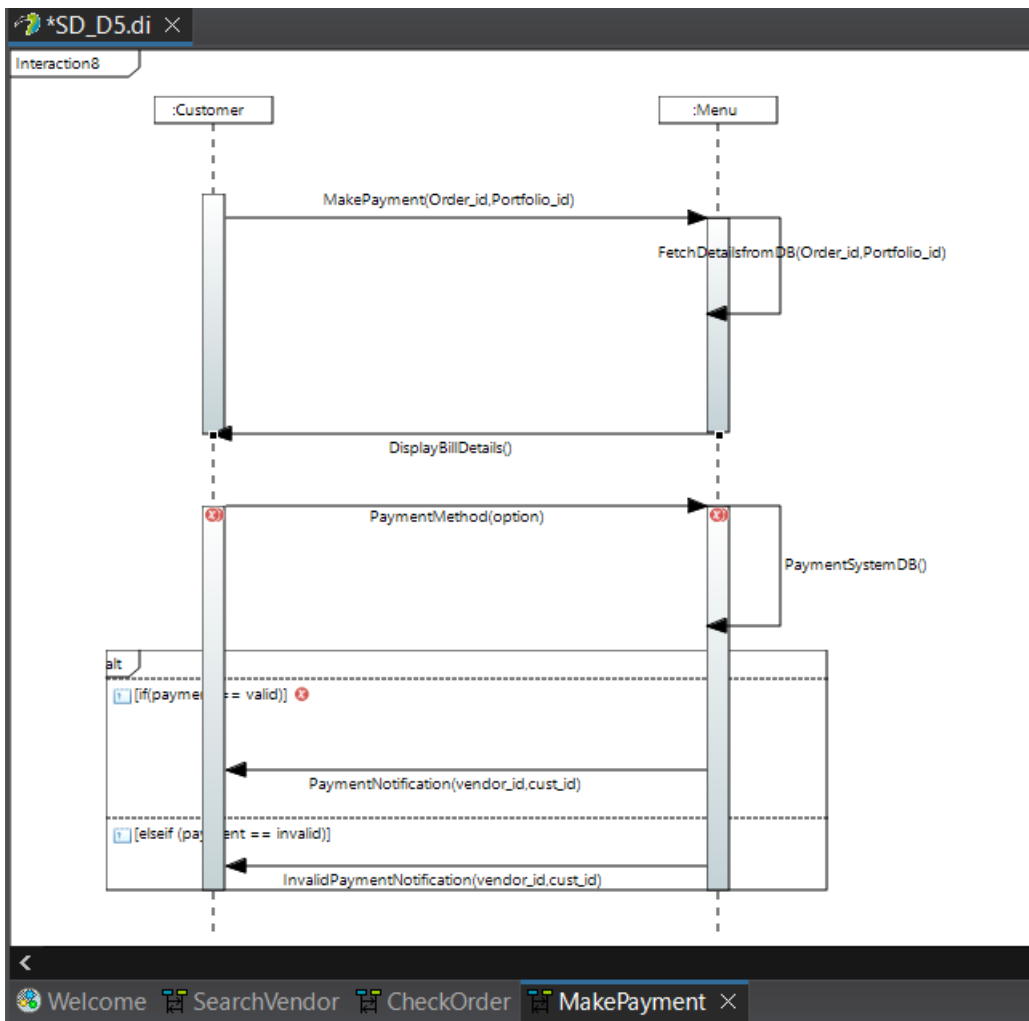
FEEDBACK:
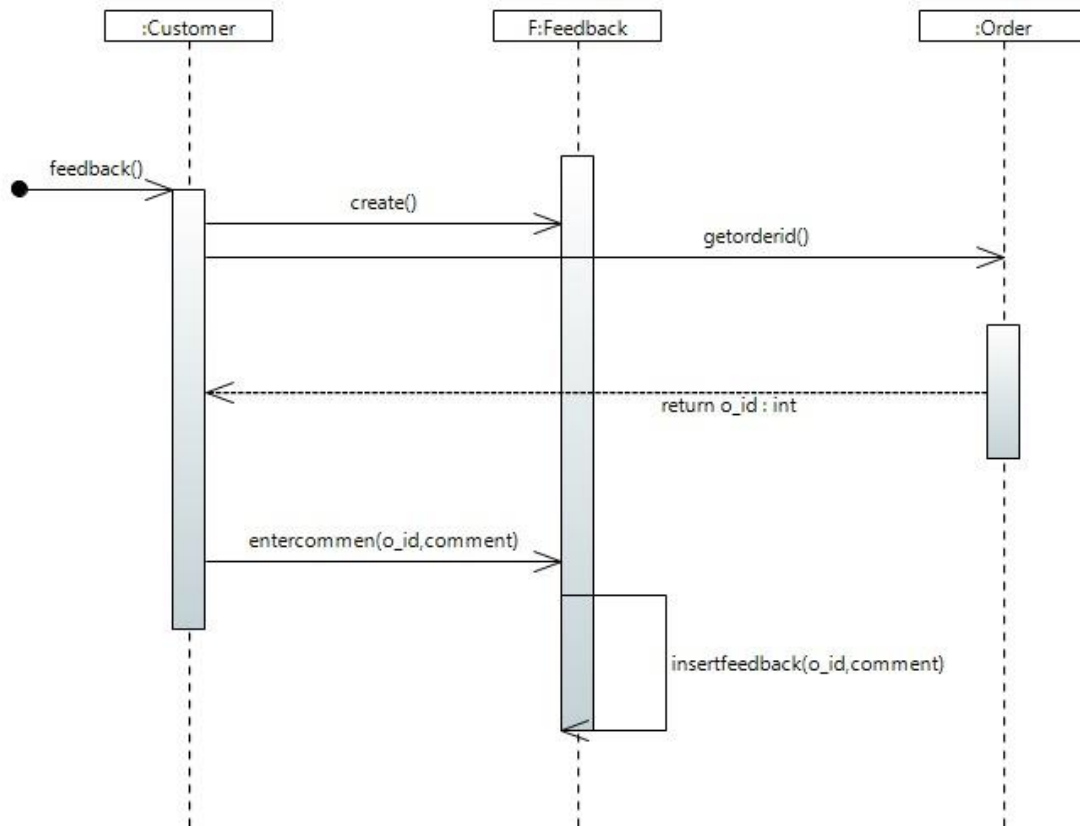
PLACE ORDER:
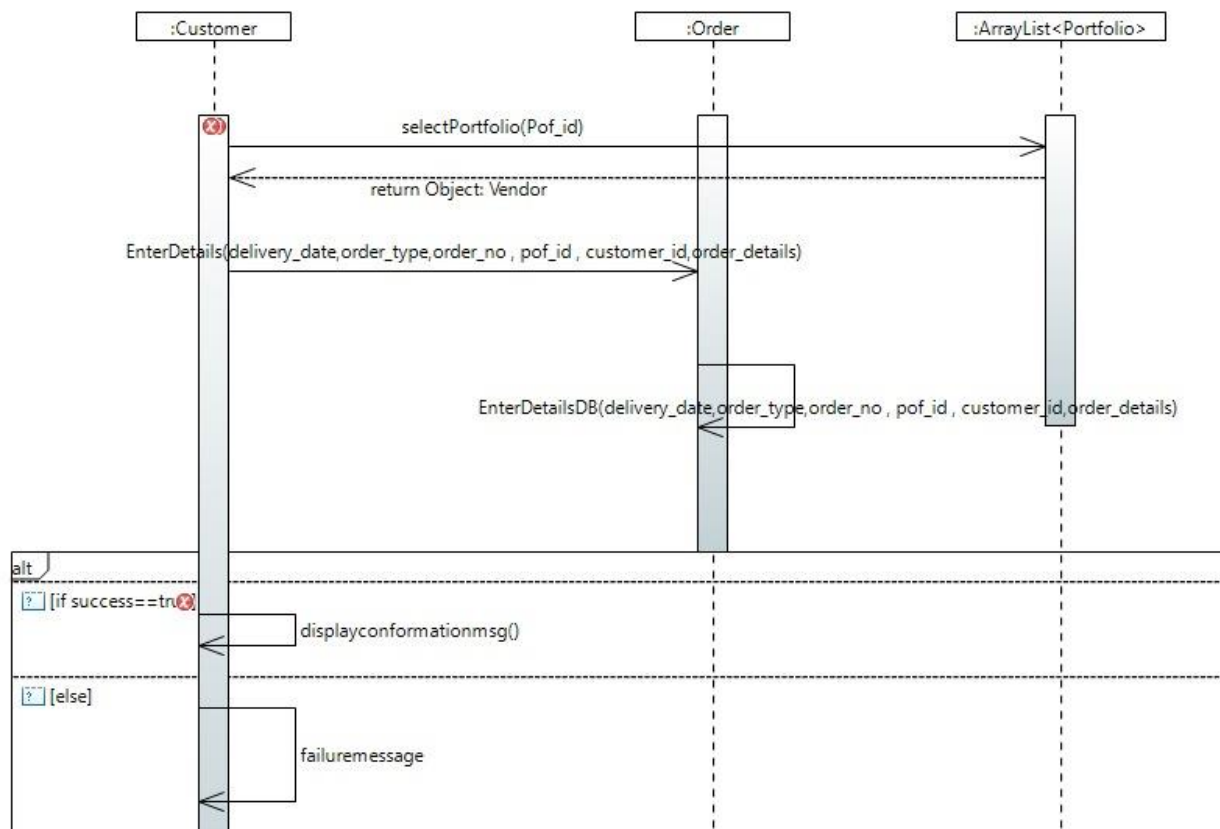
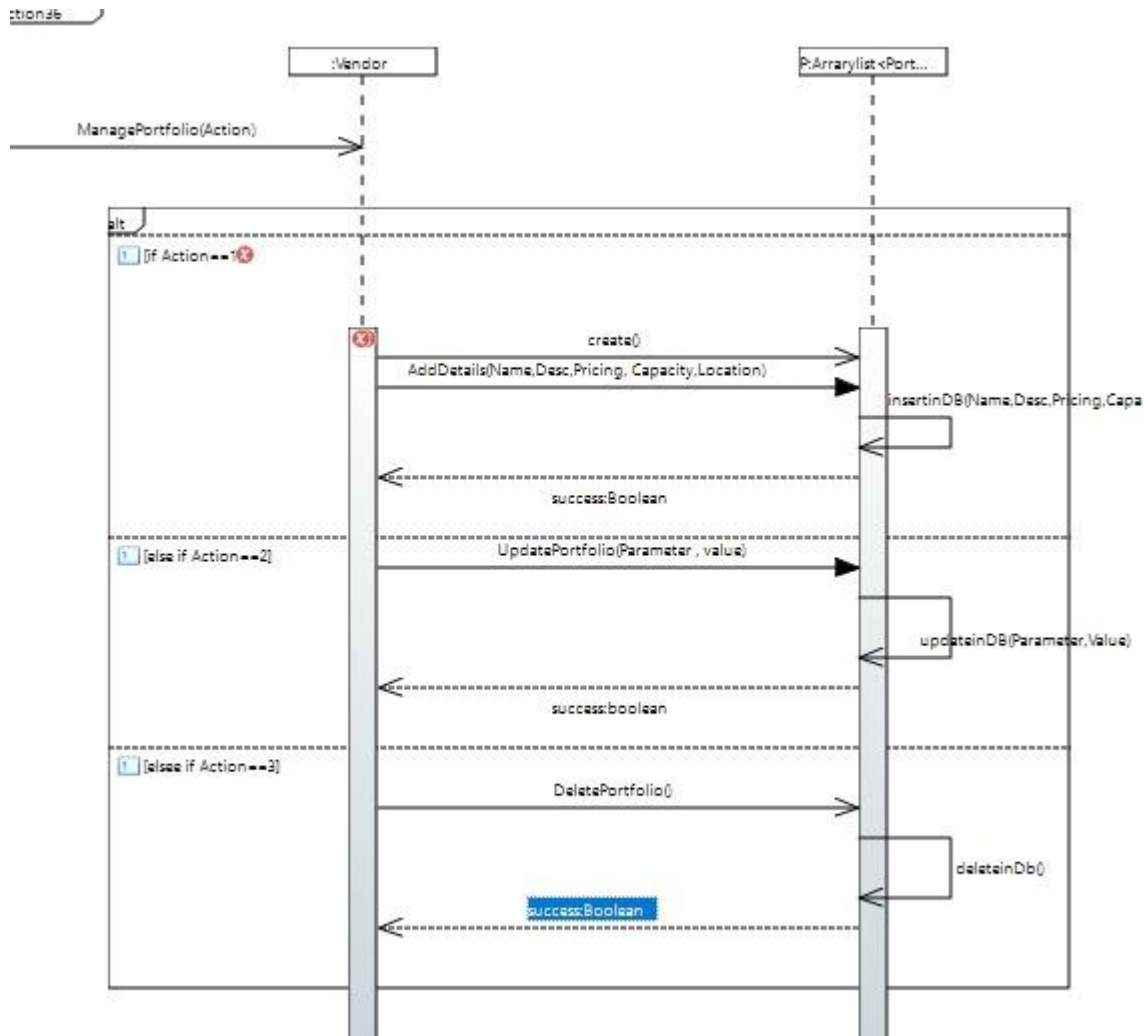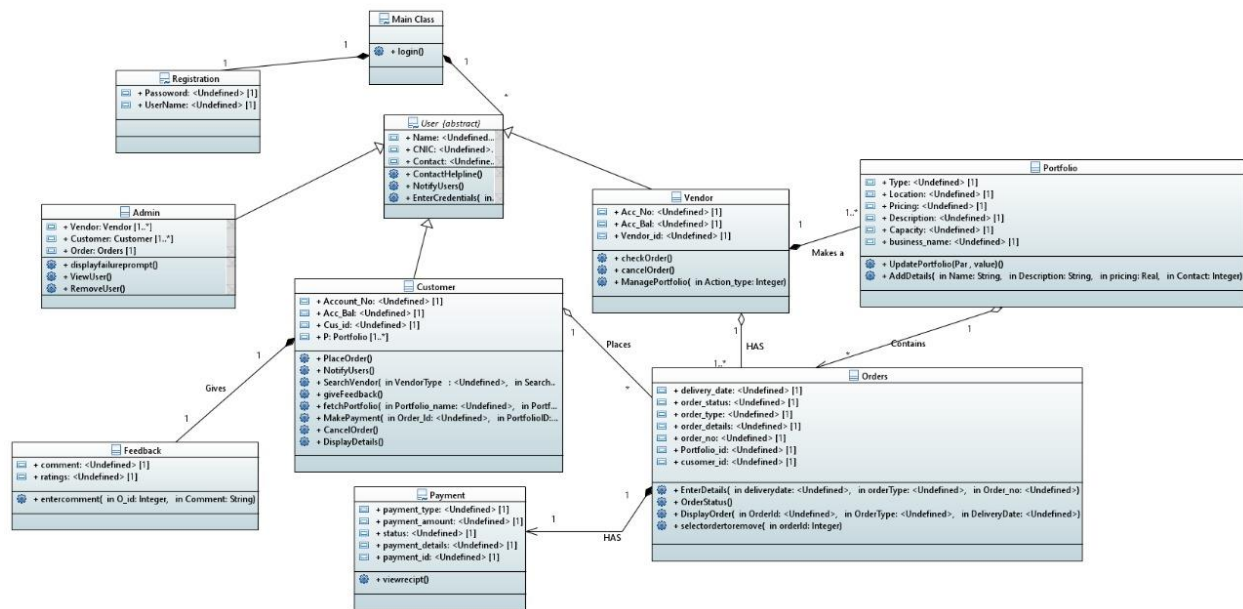# MANAGE PORTFOLIO:

- # **Class Diagram**

- ## **Package Diagram**

- # **Deployment Diagram**