

Inventory & Staff Management System

Tripple A

Diploma in Software Engineering

Final Project Documentation

2023.1F

CODSE231F-036 – S.A.Y.N SAMARAKOON

CODSE231F-189 – M.I.M SAJID



School of Computing and Engineering

National Institute of Business Management

Colombo - 07

Declaration

"I certify that this project does not incorporate without acknowledgement, any material previously submitted for a Diploma in any institution and to the best of my knowledge and belief ,it does not contain any material previously published or written by another person or myself except where due reference is made in the text. I also hereby give consent for my project report, if accepted, to be made available for photocopying and for interlibrary loans, and for the title and summary to be made available to outside organizations.

Date: 2024/10/07

Supervisor
(Ms. Chandula)

CODSE231F-036

CODSE231F-189

Preamble

Abstract

Tripple Supermarket is an Inventory Management Store where it sells and buys the products. With innovative technology, it makes more advancements in the inventory field to make customers satisfied with every product they purchase.

To make it we have developed an application to enhance our capability to attract customers. In order we have developed this desktop application under different kind of features like customer management system, Inventory Management System, Stock Management System as to implement these to get their system as to make an innovative technology.

The desktop application includes a modern User interface with great color code which attracts users as well as matching the functional requirement that we provided. It will make the entire desktop system user-friendly, asset and very satisfied to manage their system in day-to-day tasks.

In our system it provides more system functionalities with new improvements and more security with authentication and with other parts as well as there is a no lack of security in the system for the users easily, they can use it with more advanced security like encryption, security authentication etc.

As summery we can conclude as that for Tripple A Supermarket has a highly secure system with excellent features that can attract the customers.

Acknowledgement

We extend our sincere gratitude to several individuals who played a vital role in supporting us throughout this project. Our foremost thanks go to our project supervisor, Miss Chandula Rajapaksha, for her passion, patience, constructive feedback, insightful information and guidance. Her extensive knowledge, professional expertise, and experience were instrumental in bringing this project to completion. We would also like to express our heartfelt appreciation to NIBM for granting us the opportunity to participate in the Diploma Programme. A special thanks to the classmates who offered support when needed. Lastly, we convey our gratitude to our parents for their steadfast support and various forms of assistance.

Thank you!

Chapters

Chapter 1: Introduction

- 1.1 Introduction of the organization
- 1.2 Organization Structure
- 1.3 Current Operations in Organization
- 1.4 Users and Responsibilities Organization
- 1.5 Problem Definition
- 1.6 Project Objectives
- 1.7 Proposed Solution
- 1.8 Chapter Summary

Chapter 2: Methodology

- 2.1 Introduction
- 2.2 Data Collection Method
- 2.3 Software Process Model
- 2.4 Software Development Tools
- 2.5 Testing Strategies
- 2.6 Implementation Plan
- 2.7 Chapter Summary

Chapter 3: Analysis

- 3.1 Introduction
- 3.2 UML Diagram
 - ✓ Use Case Diagram of Proposed System
 - ✓ Class Diagram of Proposed System
 - ✓ Sequence Diagram (Each Use Case) of Proposed System
- 3.3 ER Diagram of Proposed System
- 3.4 Chapter Summery

Chapter 4: Solution Design

- 4.1 Introduction
- 4.2 Interface Design
- 4.3 Database Design
- 4.4 Report on Layout Design

Chapter 5: Conclusion

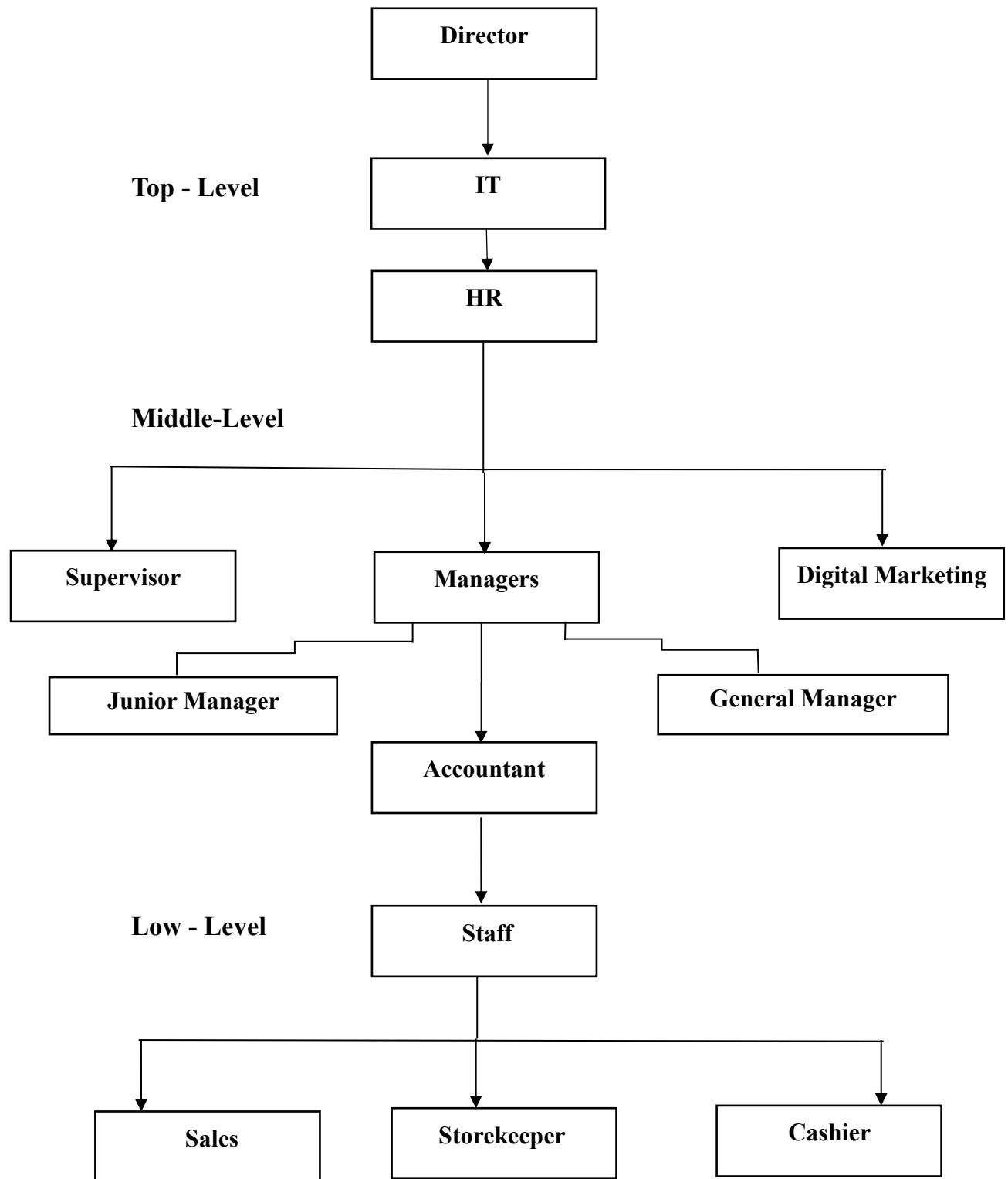
- 5.1 Reference
- 5.2 Appendix

Chapter 01 – Introduction

2.1 Introduction of the Organization

Tripple A is an organization where all goods and services are being done. It is in kolonnawa (No 17/A, salamulla road, kolonnawa) it was started since 2022.04.14. As we considered the Tripple A is a head of the organization. Tripple A is the super Mart which consists of pharmacy, supermarket, cosmetics, Stationery, Beverages, Household, Frozen, Cosmetics, Home Appliances, Gift Items as a division of departments. It effectively manages aspects of the Management Process. When considering their daily routines, they could have GRN (Good Receive Note) and PRN (Purchase Return Note), wastages, stock clearance (about 6 months), stock adjustment(monthly). Tripple A has only one organization which accommodates many departments and departments of Employees. The organization uses three POS machines for the cashier side to manage their reports and they use a cable system for networking. These points clear out how they process their sales and management.

2.2 Organization Structure



2.3 Current Operations in Organizations

Tripple A super Mart manages the current operations to gain this company move forward. Current operations include their daily routine and the operations that happen each day. Such as GRN, PRN, wastages, Stock Clearance, Stock adjustment, POS machines maintenance.

It improves performance Monitoring, Decision making, Resource allocation, identifies the risk, Customer feedback and understanding the current operations. These topics help the organization become more efficient and reliability.

2.4 Users and Responsibilities Organization

At Tripple a Super Mart, our organizational structure is designed to ensure efficient operations and excellent customer service.

- ✓ **Director – Mr.M.S.M Imthiyaz** could manage the overall operations of Tripple A supermarket and the head of this organization.
- ✓ **General Manager - Mr. Mahi Kularathna** is the person who manage to balance the operations of Tripple A supermart.
- ✓ **Junior Manager - Mr. sharfran** manages the overall operations as well the system process. He is the person who has the administrative rights to check into the company system.

OPERATIONAL STAFF

- ✓ **Sales** – Assist customers with their purchases, provide product information is, handle customer inquiries, and maintain store cleanliness.
- ✓ **Cashier** – Responsible for transactions, accepting payments, issuing receipts, cash balances, handling returns.
- ✓ **Storekeeper – Mr. Rishad** is the storekeeper for the Tripple A as to manage the stocks and make report.
- ✓ **Digital Marketing - Mr. Abdul Razzak** who manages digital marketing.

SUPPORT STAFF

- ✓ **Human Resource – Mr. Ahemad Ali** who manages the accounts and Hr. departments as to make the Tripple Supermart more user friendly.
- ✓ **Accountants – Mr. Ahemed Ali** Manages Financial transactions, budgeting, and accounting.
- ✓ **Supervisor - Ms. Dilini** who supervised day-to-day activities.
- ✓ **IT – Mr. Sharfran** Provides technical support and oversea computerized systems for inventory management and point of sale operations.

2.5 Problem Definition

1. **User Experience inconsistency** - The use of UI that developed for their system was an inconsistency because each UI comes across with different issues like there is no proper way the users expected was not there such as signup, proper UI theme, no proper communication medium through UI.
2. **Authentication failure** - in their current system that has been built was not enough to gain authentication method to keep their system more secure such as signup system has not built yet so that users directly login into the system and they can process.so without signup they may loss data, authentication access as well as they face some data analysis goes down.
3. **Data analytics** - as the previous case - describes how the users may lose their data, and some department details may not be sure if they insert any kind of information's data may loss.
4. **Lack of security** - using some kind of third-party platforms may raise concerns about data privacy and security. Tripple A may have limited access to sensitive information and potentially compromising data confidentially.
5. **Payment issues** - small issues that have arisen are improper transactions, communication between hardware and software may lose some important transactions and there is no tracking system for each department they have in their current system.

6. **Time management** - Tripple A has a challenge in their system the errors could be with increasing number of customers, transactions process could delay processing the data and inefficient on their system.

2.6 Project Objective

1. **Enhanced user experience** - creating a GUI desktop application may solve issues that have arisen in their current system. It allows the users of Tripple A could handle these problems smoothly and efficiently and provides seamless accessibility.
2. **Encrypted data** - While adhering our app that is built thought that the users can store sensitive information's on our app it allows the users to keep their resources as much as possible secure.
3. **Proper authentication** - Whenever a user tries to login into the system, they should have a registered account. This provides more benefits as for the users they might not lose any single data.
4. **Data analytics** - let's take it data analysis of the current system it wasn't there each departments proper tracking systems and reports were generated on that current system not safe and secure but through our app users can implement these features because our app has security and encrypted so that hackers or unauthorize access won't be able get any data.
5. **Security** - By implement data encryption method or measures is the best handling sensitive information's for Tripple A supermart.
6. **Improved Time Management** - create many features for Tripple an organization could have a time management and handling system simultaneously and optimizing their productivity and the reducing response time.

2.7 Proposed Solution

- ✓ To implement **Inventory Management** to manage stocks, sales, cost, allocate stocks, stock clearance and stock adjustment, report integration, quality control and auditing and monitoring method to check inventory.
- ✓ To implement **Customer Relationship Management** to manage customer details, tracking, feedback, reporting and automated with POS.
- ✓ To implement **Point of Sales** to process sales, automated inventory, customer management, billing process, product catalog management, multi-store support, add to cart.
- ✓ To implement **Employee Management** to add, manage employees' tasks, scheduling shifts, assign duties, tracking.
- ✓ Implement **Strategic plan** to offer more products, enter new products and monitoring.
- ✓ To implement **Financial Management** to make budget, financial analysis, audit, view accounts and automated with Payroll and CRM.
- ✓ To implement **Payroll** to have employee information, processing, tax calculations, attendance tracking and deduction.
- ✓ To implement **marketing and promotions** to make promotions, loyalty programs, automated with CRM and Sales.
- ✓ Implement **Recruitment Tracking** to post a job, interview scheduling and offer management.
- ✓ Implement **Training Monitor** to track details who check in/out, breaks and overtime, leave etc...
- ✓ Implement **Account Management** to make fixed assets, tax, expense management, income, cashflow, trial balance and bank reconciliation and manage.
- ✓ To implement **Sales Management** to manage sales, track sales and automated CRM, POS.
- ✓ To implement **Order Management** to track Order details and manage.

2.8 Chapter Summary

As the summary of this chapter, we can state that these points or sub points will describe how the automated system affected with some problems that they associated while cooperating with features that they had. The client has come across errors while dealing with systems. To correct these errors, we have stated some points to recover the system back with a new system. Using problem definition, we tried to identify the error and through our objectives that were stated and imply to the system and as a solution it tries eliminating all the errors that client has faced, and a new system has been developed so that the new system has a secure platform to add all their sensitive information's will be safe and secure.

Chapter – 02

2.1 Introduction

This chapter outlines the methodology for the development and implementation of for the proposed desktop application for Tripple a Super Mart.

Outlines:

- Data Collection Methods
- Software Process Model
- Software Development Tools
- Testing Strategies
- Implementation Plan

By adhering to these Tripple A supermart achieves not only the meet but also the exceeds the expectations of valuable customers and ensuring loyalty and satisfaction for years to come.

2.2 Data Collection Method

Data Collection is a method to get the required details for software that needs to be worked on before the designing stage. This gathers data for software to implement the features that are needed for this software to have efficient and reliability working software. So,

There are 04 types of methods to achieve the requirements.

➤ Questionnaire

Collect responses and analyze these responses to gain insights into stakeholders preview and satisfaction level improvement. It gathers some questionnaires to apply to the user interface, analyze it, and make a response.

➤ Interview

Conduct interviews with stakeholders to gain data insights from stakeholders to have a brief introduction about their problems that are associated with the current system.

➤ SRS

Software Requirement Specification is a documentation what the features that the stakeholders requested and the features that are implemented by Software Engineers. This will be helpful to gain data insights very efficiently and used to develop the software.

➤ User Expectations

Analyzing the questionnaire and SRS the user will be able to get a good understanding of the system they expected to get as an output.

2.3 Software Process Model

Agile Development is a methodology that implements interactive and waterwall models which helps to develop software very efficiently. It supports a cross functional team, flexibility to change any requirements and apply. It conducts sprint meetings to gain the proper requirement engineering set to implement into the software. It is allocating meetings to discuss what the SRS are to select and implement this on software.

2.4 Software Development Tools

We Use:

1. **Figma** – Figma is a platform for designing the User Interface and working on prototyping with software to check how the software should connect before implementing this design into visual studio for design and coding.
2. **Draw.io** – This tool is used to draw the diagrams for behavior and structural diagram based on Requirement Engineering SRS gather data's how the software application should work on and connected.
3. **MS Excel** – This tool is used to test the software application that is developed and analyze the information's about the software which was passed on testing, and which was not passed on testing.
4. **Visual Studio** – It is used for building, debugging and deployment software applications across various platforms, support multiples programming languages and providing tools for code and design.
5. **MSSQL Server** – Design and develop database to store data and retrieve data.

6. Programming Language – Here we use the C# programming language for desktop applications to be developed.

2.5 Testing Strategies

Testing software applications is a major category in software development model in agile where the software is being tested through different testing processes thoroughly to be delivered to the real environment. Without the testing purposes it will be difficult to deploy an application, it needs to be tested in each section like code, design etc. Sometimes errors could occur so to solve these problems we used testing.

When considering the testing there are 04 main types of testing such as.

- 1. Unit Testing** – testing the application part by part.
- 2. Integration Testing** – testing two-unit testing together.
- 3. System Testing** – testing the entire system.
- 4. Acceptance Testing** – getting satisfied or unsatisfied by the stakeholder.

The method of test cases is being used to clarify which section of the software application has worked or not. It is extremely useful and important to keep a testcase to know how the software interacts while testing 03 types testing during the process.

2.6 Implementation Plan

As we used Agile Methodology to develop the desktop-based application, the first thing it should have Plan, Design, Develop, Test, Deploy, Review and Launch for a software to be developed through this process model.

- 1. Plan** – Defining project scope, objectives, and schedule. Assign roles and responsibilities. Collecting and documenting requirements engineering from Tripple A supermarket stakeholder.
- 2. Design** – In this process based on Requirement Engineering gathered draw diagrams according to a software that is needed. And apply User Interface according to the behavior diagrams. Design database to handle all their data.

- 3. Develop** – During implantation stage apply code according to structural diagram that implemented in Design stage. And apply code to develop database according to ER diagram.
- 4. Test** – Once the software has been developed test the software through main 04 type of testing methods and test section during implementation and design.
- 5. Deploy** – if everything has been completed then deploy to the real environment.
- 6. Review** – Checking regular demos or sprints where the team showcases completed work to stakeholder. Ensuring there will be feedback for upcoming iterations.
- 7. Launch** – Deploying the completed features of the software to the stakeholder. It has rapid feedback.

2.7 Chapter Summary

In conclusion chapter 02, it has highlighted that there are different steps that have been taken to develop software to gather information based on each gather data and implementing these data to the next stage of designing. Choose the best model agile and according to agile we gather information and implement it with design and code. I tested the software with 04 distinct types testing method and deployed the software to the real world.

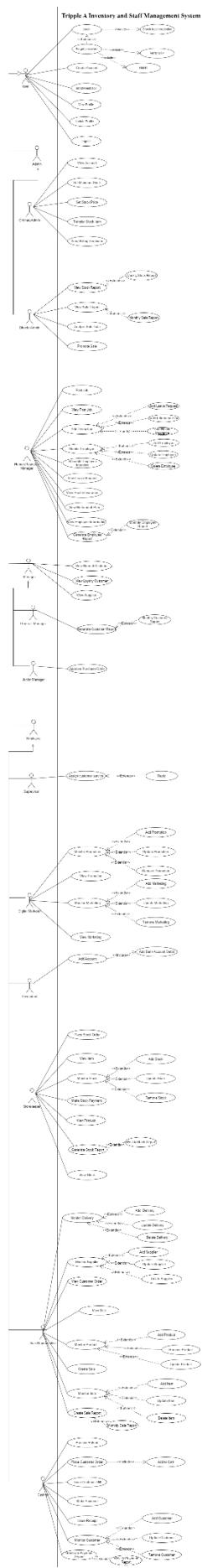
Chapter – 03

3.1 Introduction

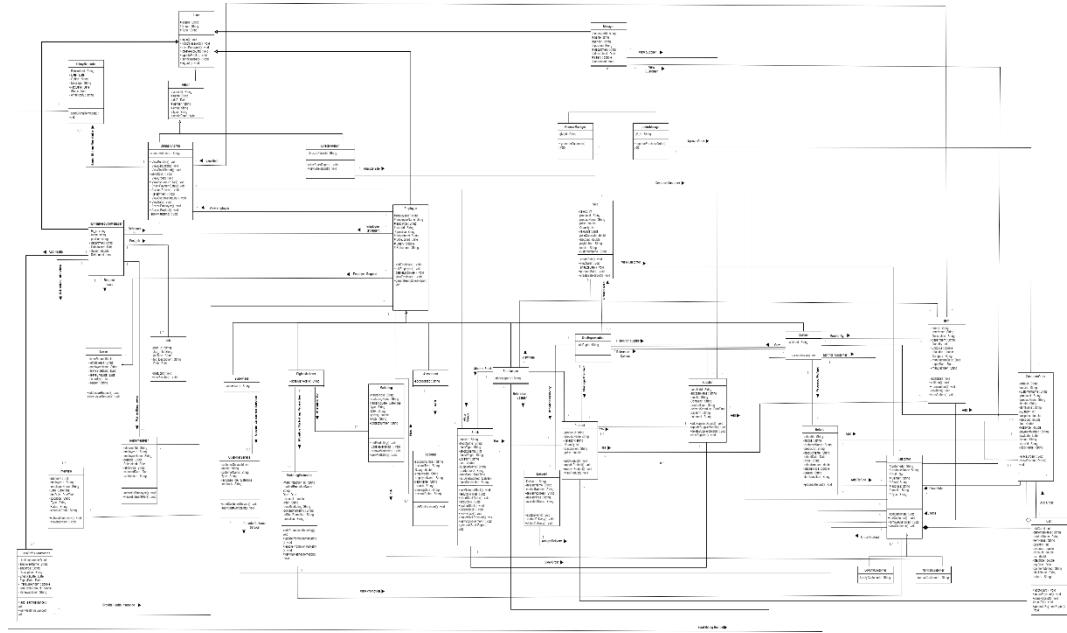
In Software Engineering (Unified Modelling Language) diagrams serve as visualizing, designing and structural and behavioral aspects of the system. It offers a standard approach to various components, relationships, and interactions over software. It provides a comprehensive view of the whole software system to be developed.

3.2 UML Diagram

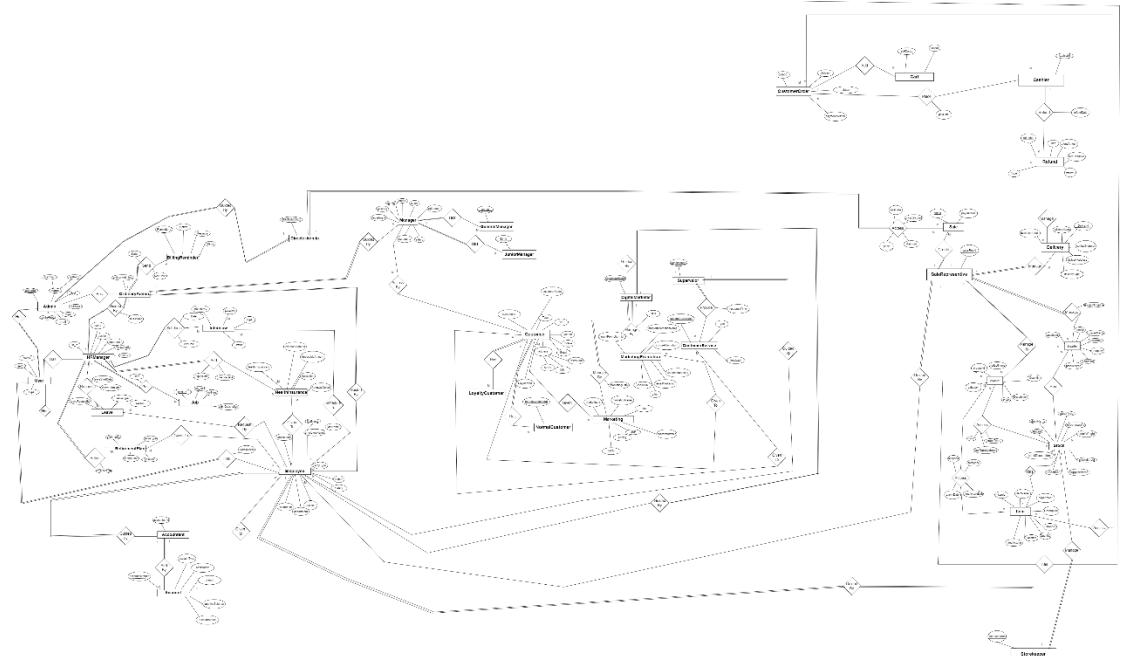
Use Case Diagram of Proposed System



Class Diagram of Proposed System



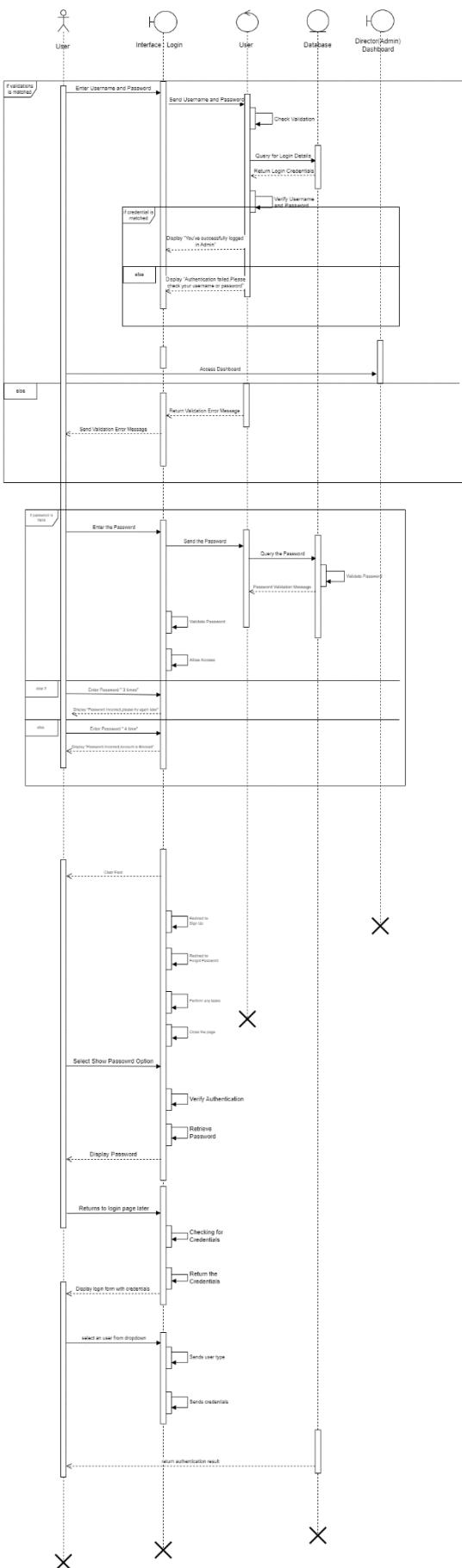
ER Diagram of Proposed System



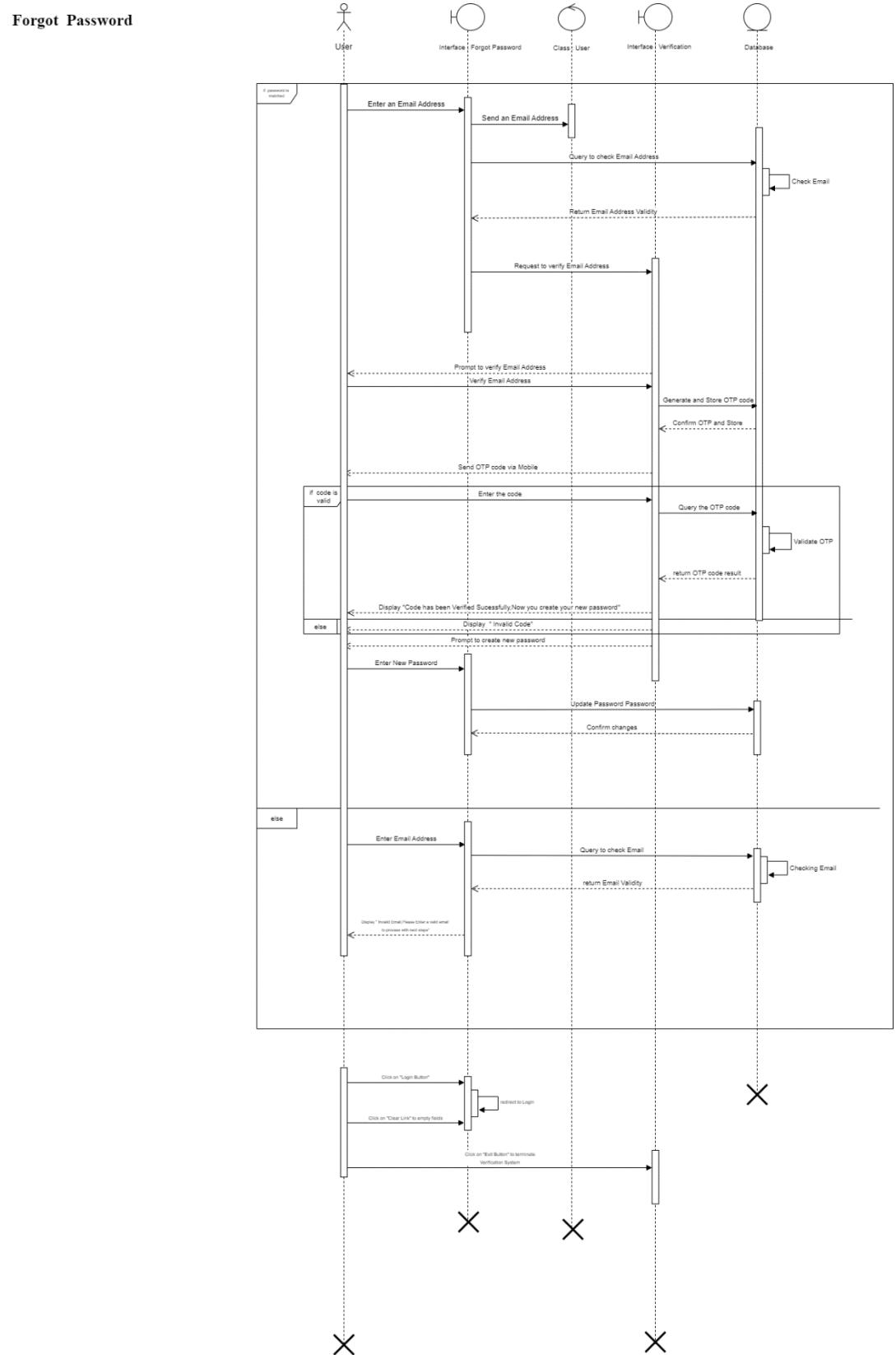
Sequence Diagrams (Each Use Case) for Proposed System

Login

Login

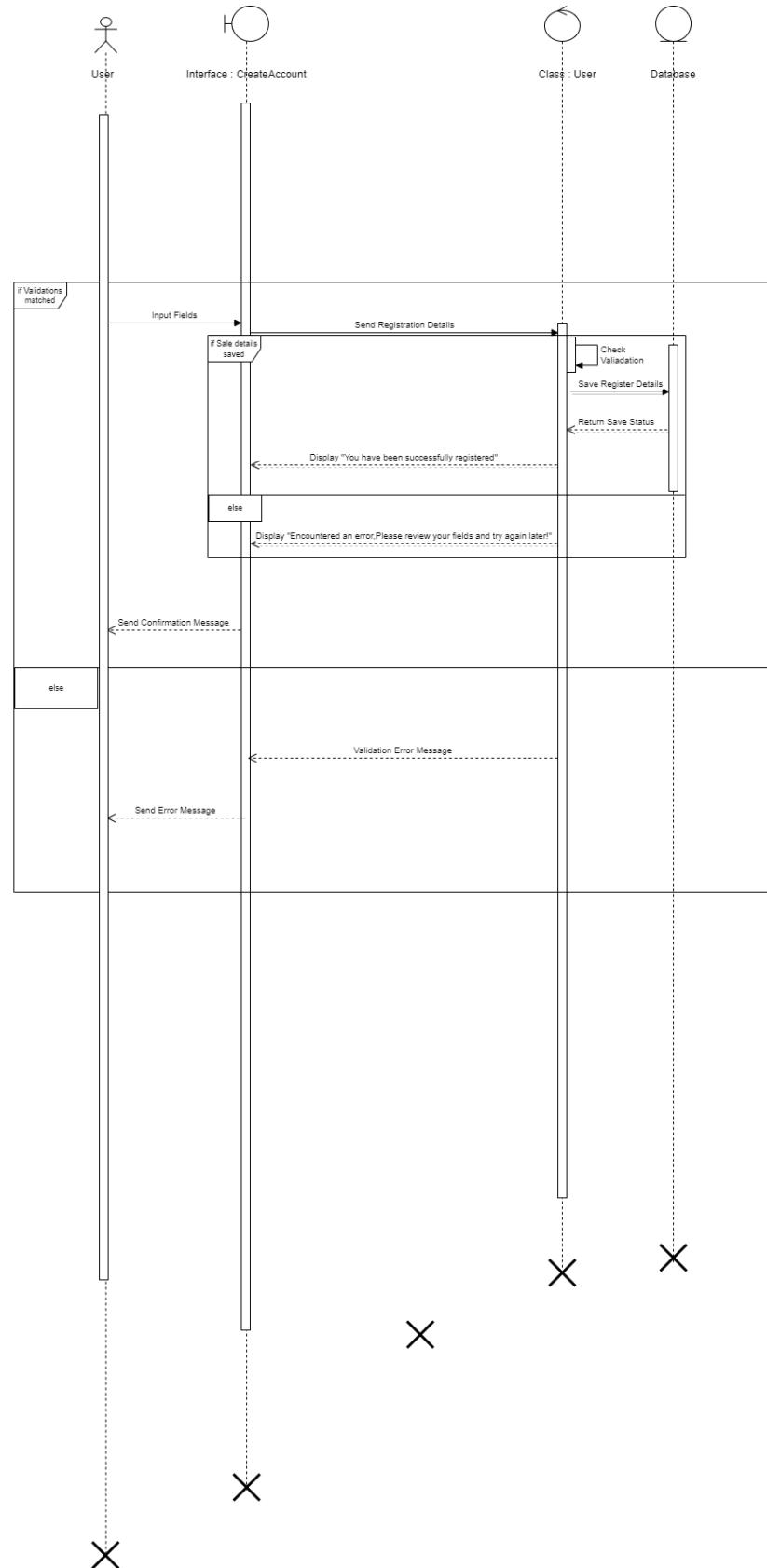


Forgotten Password



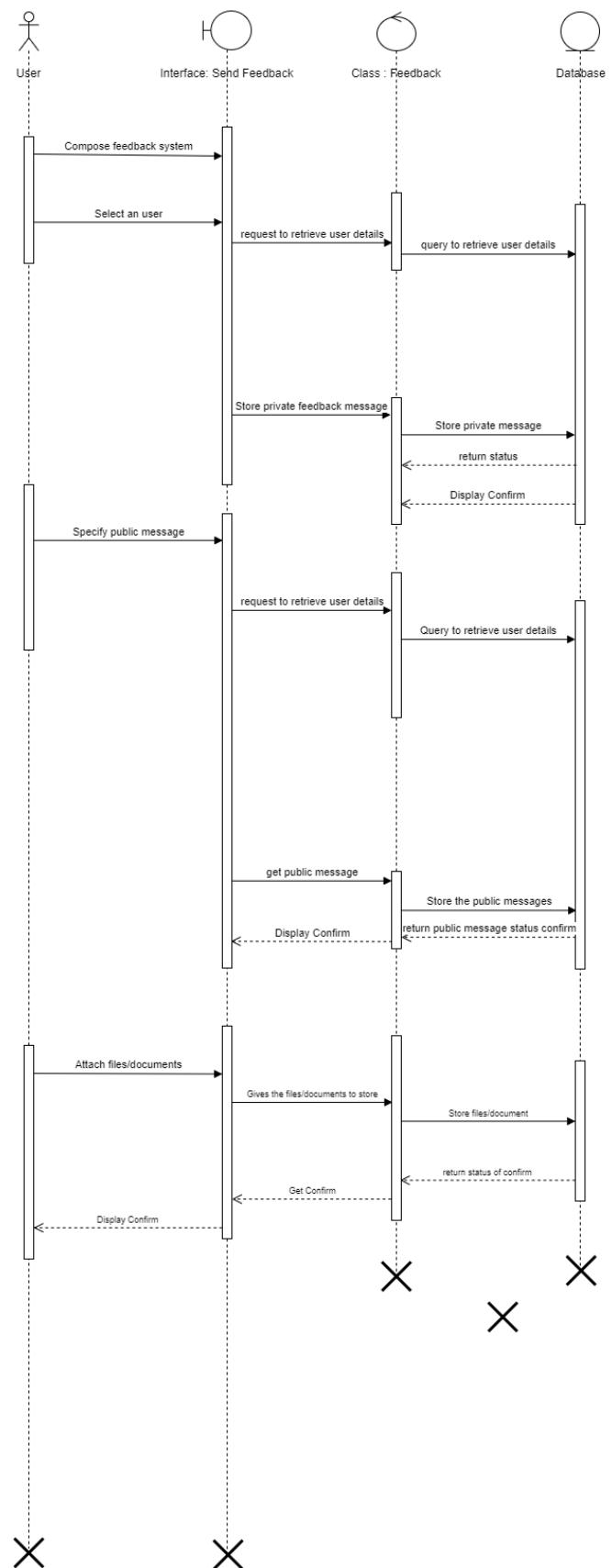
Create Account

Create Account



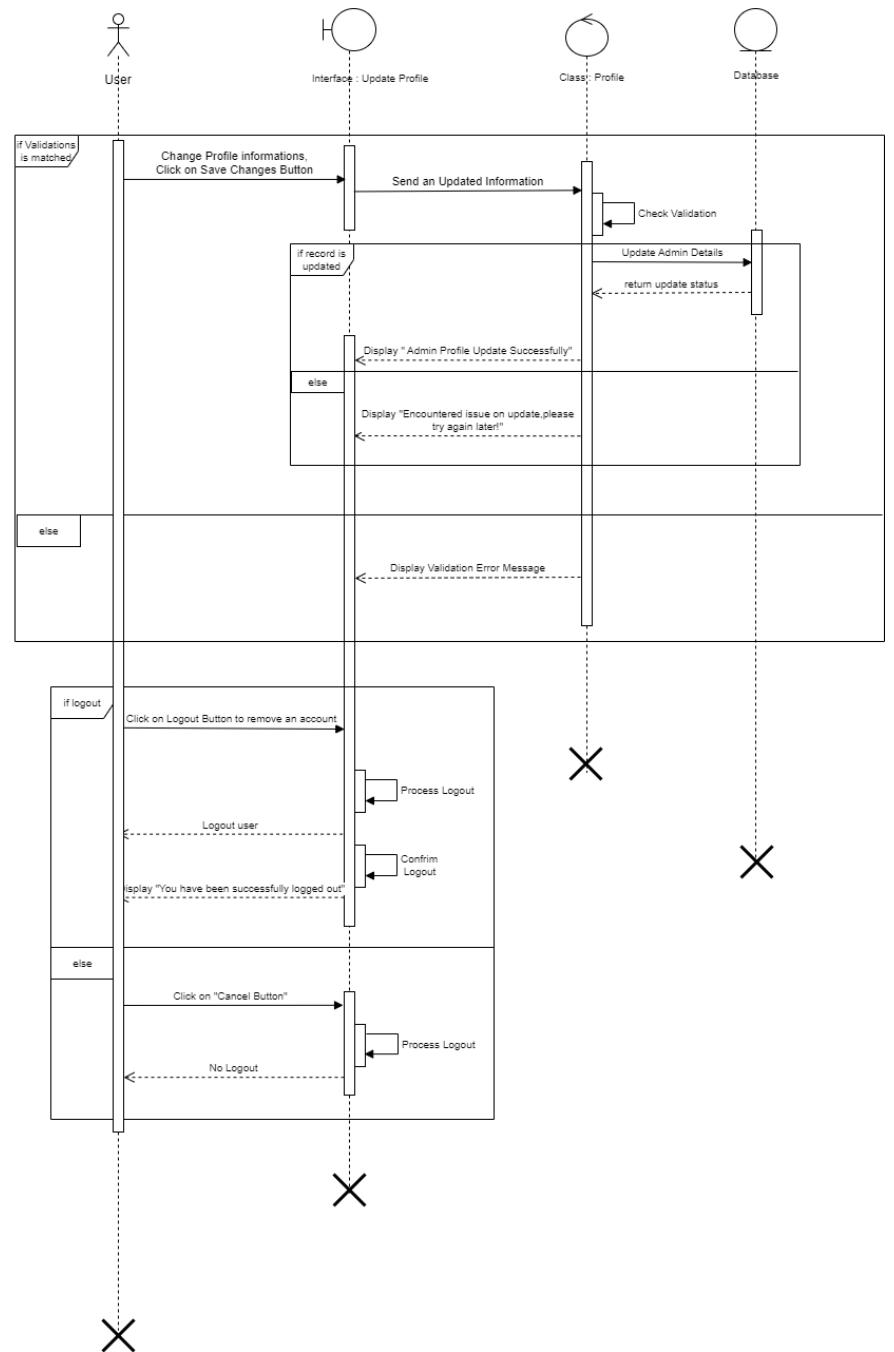
[Send Feedback](#)

Send Feedback



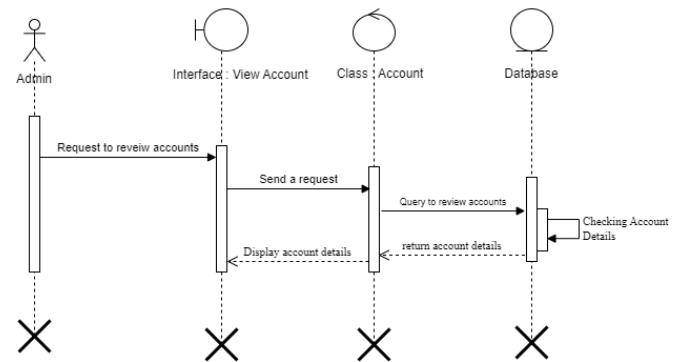
View/Update Profile

Update Profile



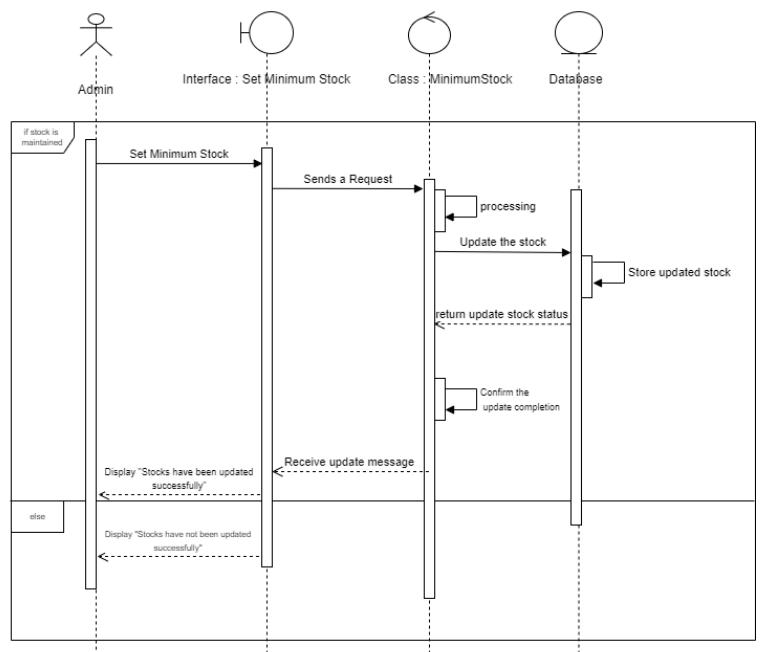
View Account

View Accounts



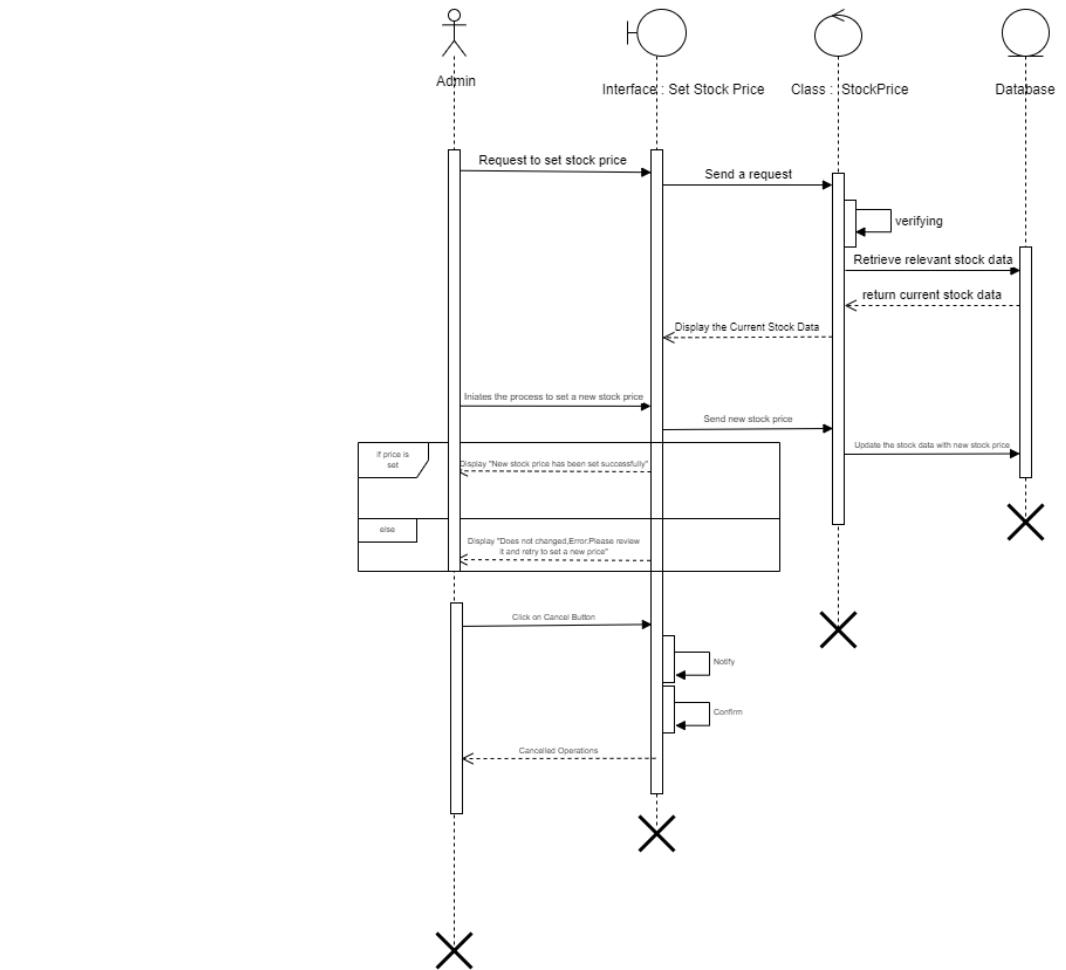
Set Minimum Stock

Set Minimum Stock



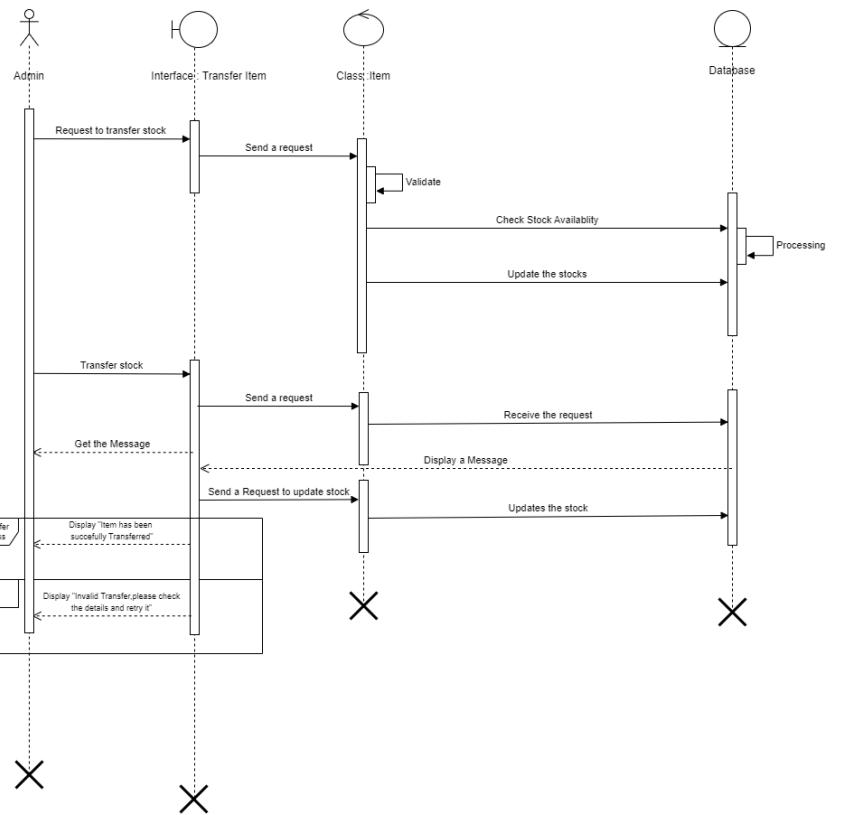
Set Stock Price

Set Stock Price



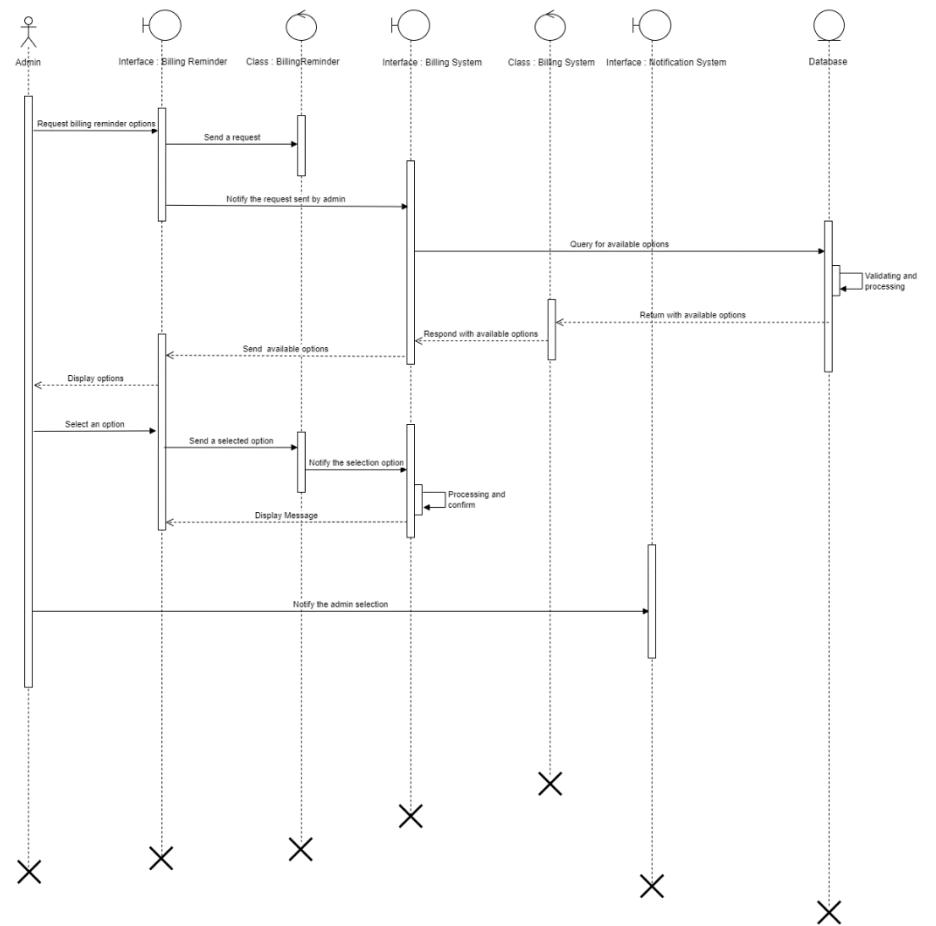
Transfer Stock Item

Transfer Item



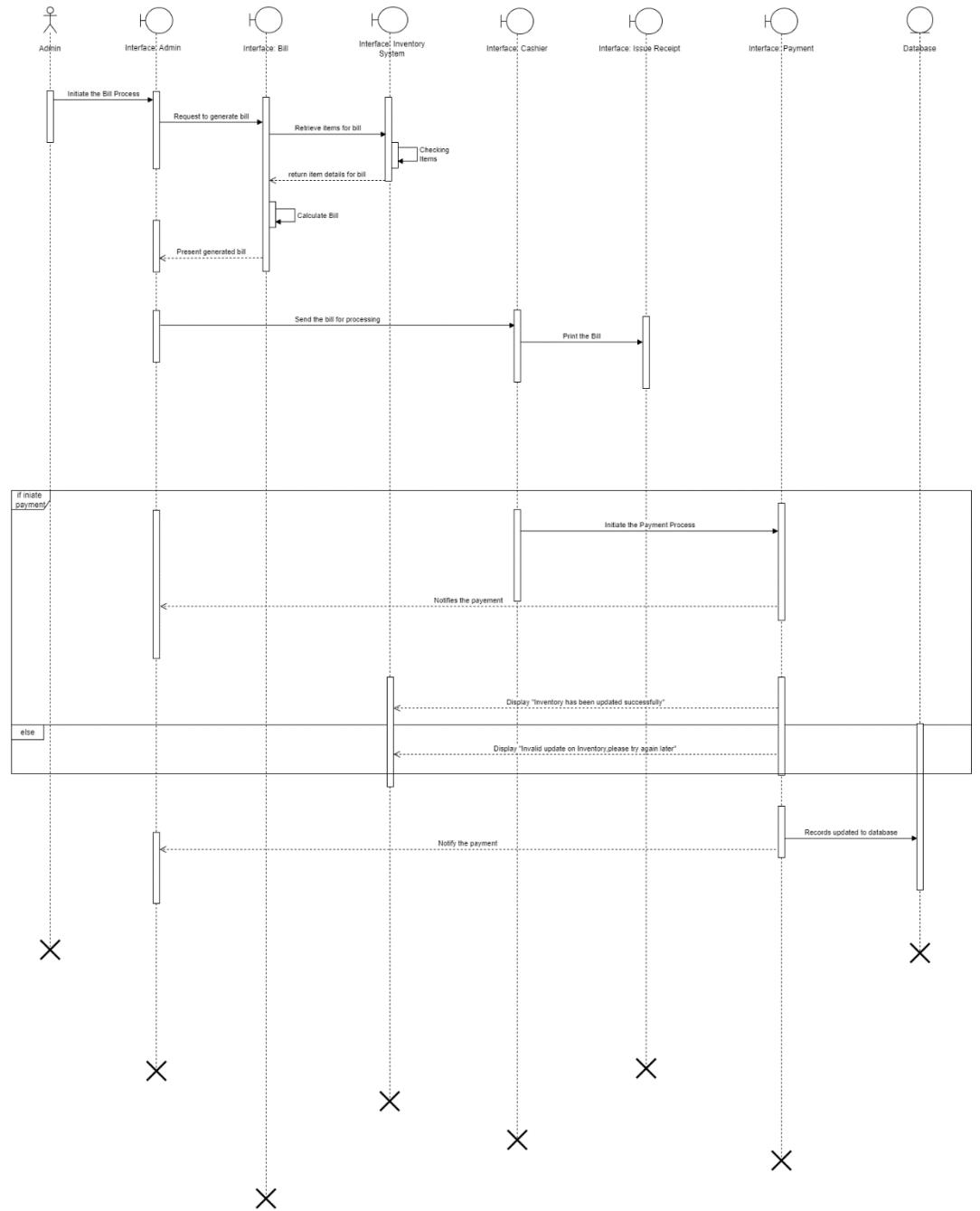
Send Billing Reminder

Send Billing Reminder



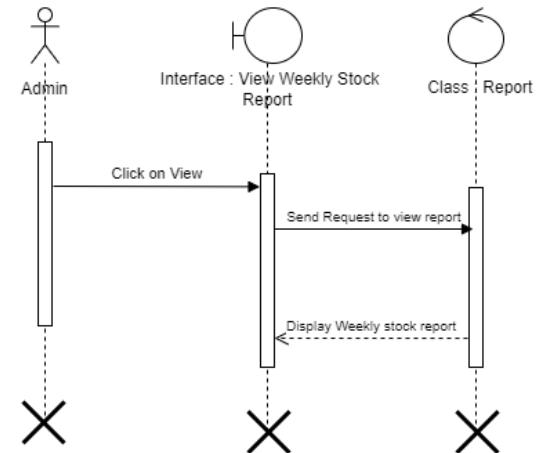
Generate Customer Bill

Generate Customer Bill



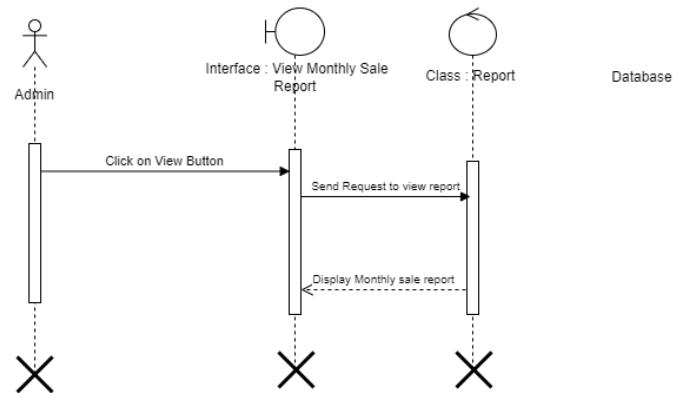
View Stock Report (Weekly)

View Weekly Stock Report



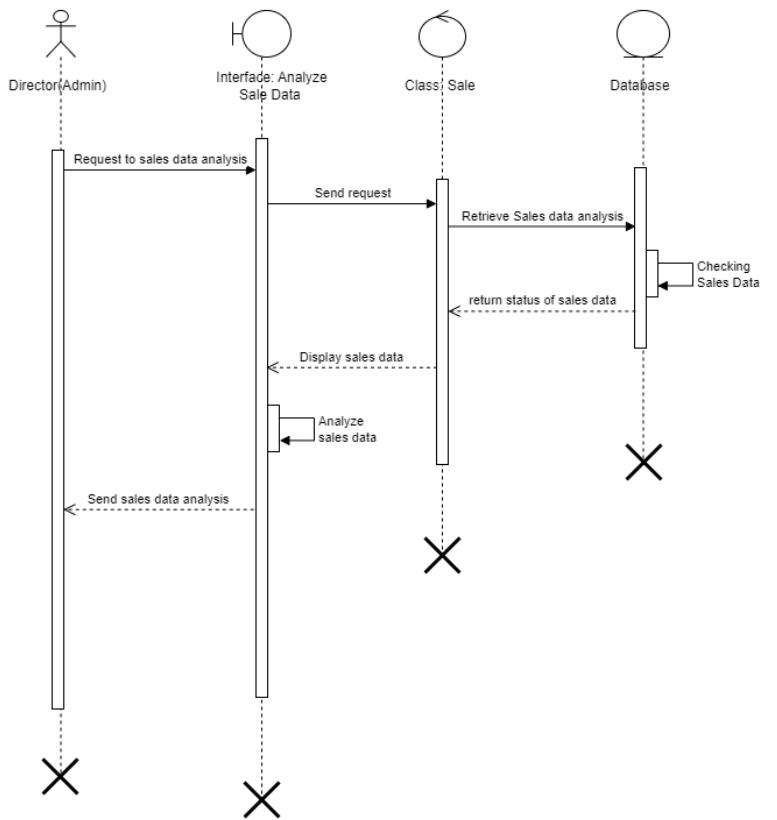
View Sale Report (Monthly)

View Monthly Sale Report

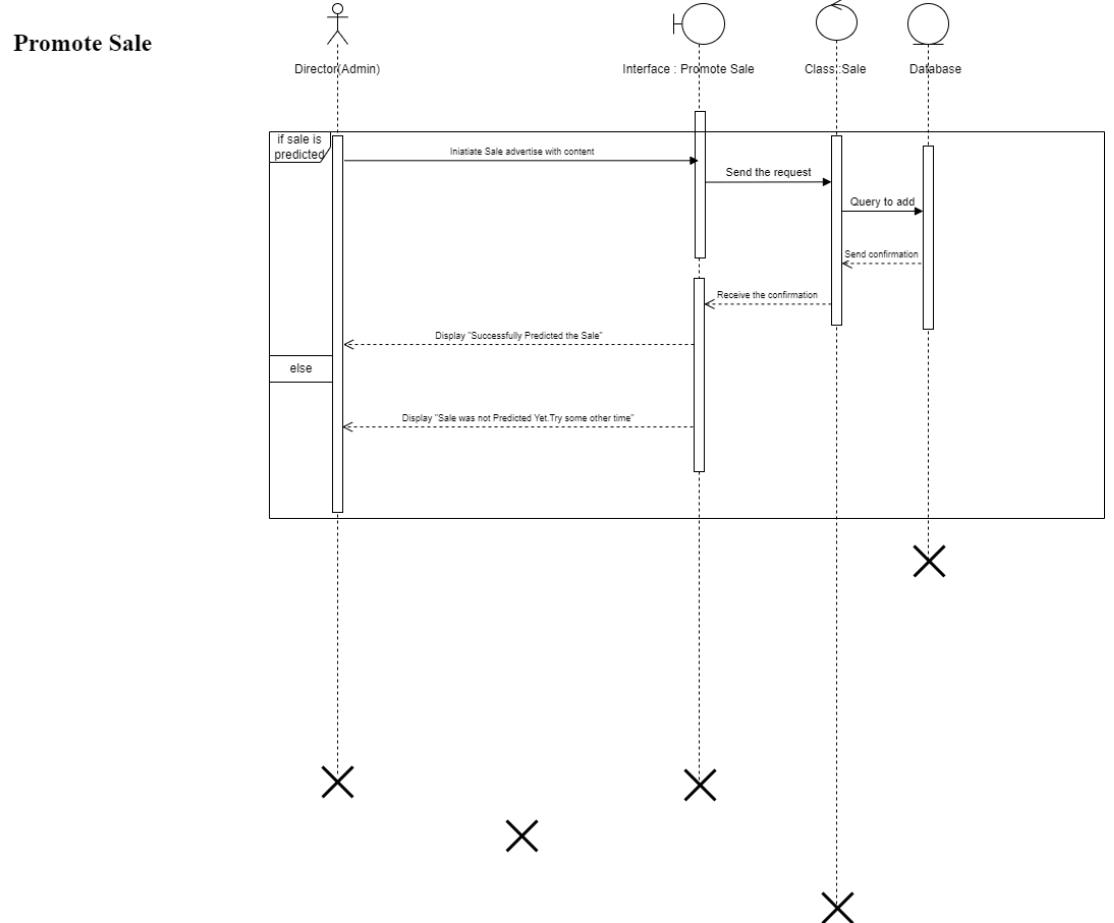


Analyze Sale Data

Analyze Sales Data

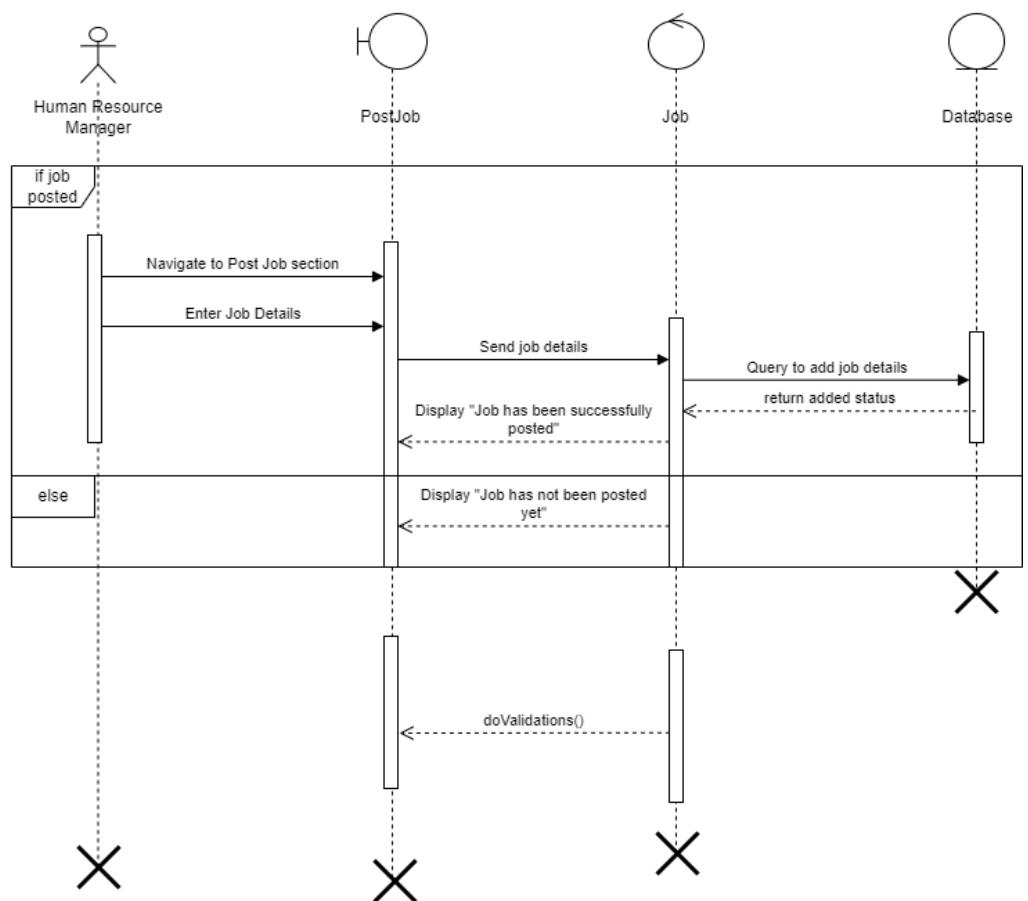


Promote Sale



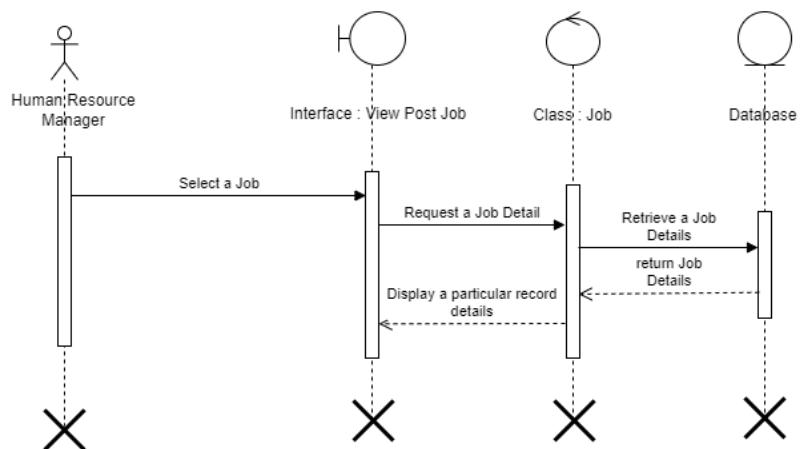
Post Job

Post Job



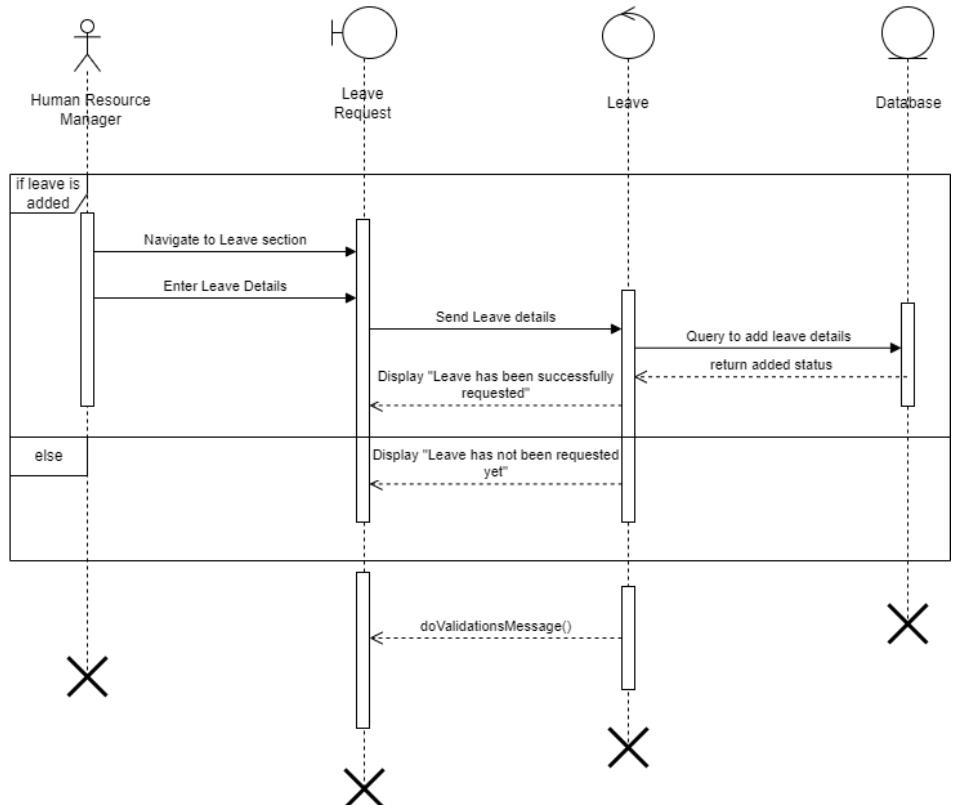
View Post Job

View Post Job



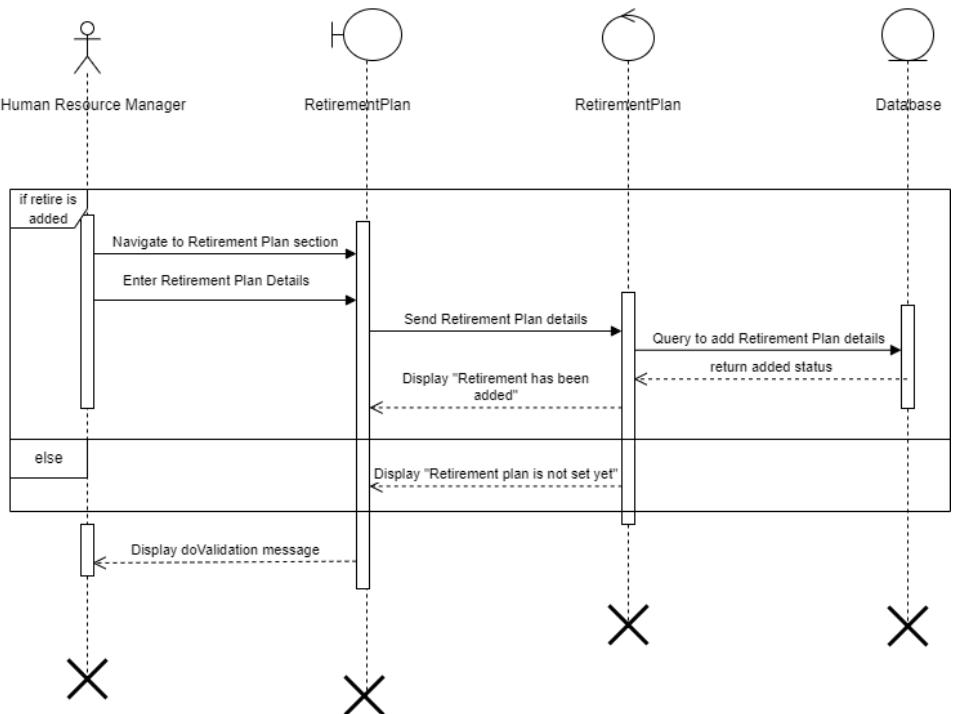
Add Deduction (Leave Request)

Add Leave Request



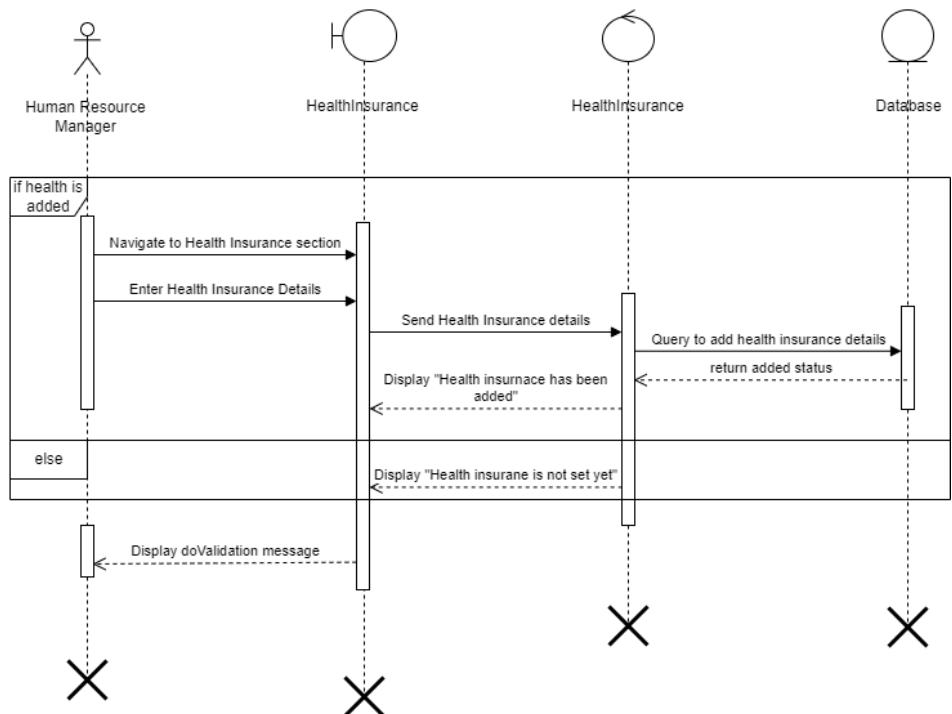
Retirement Plan

Add Retirement Plan



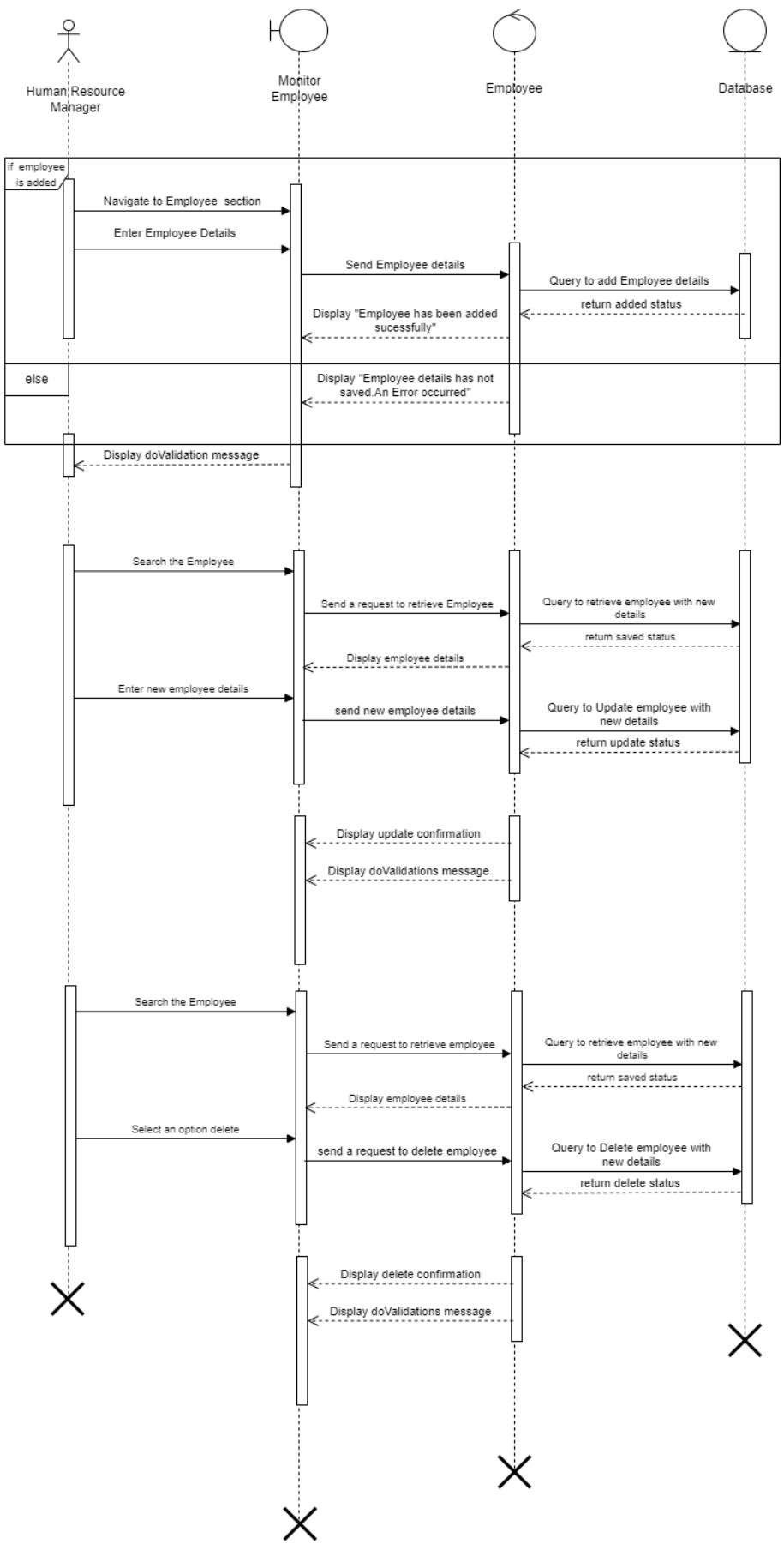
Health Insurance

Add Health Insurance



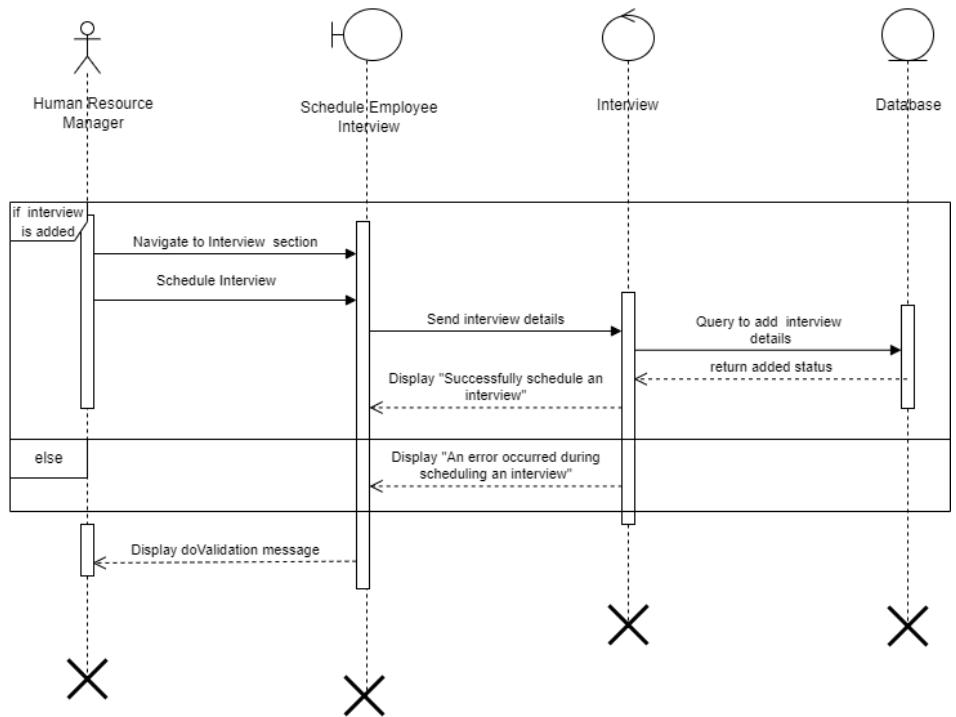
Monitor Employee

Monitor Employee



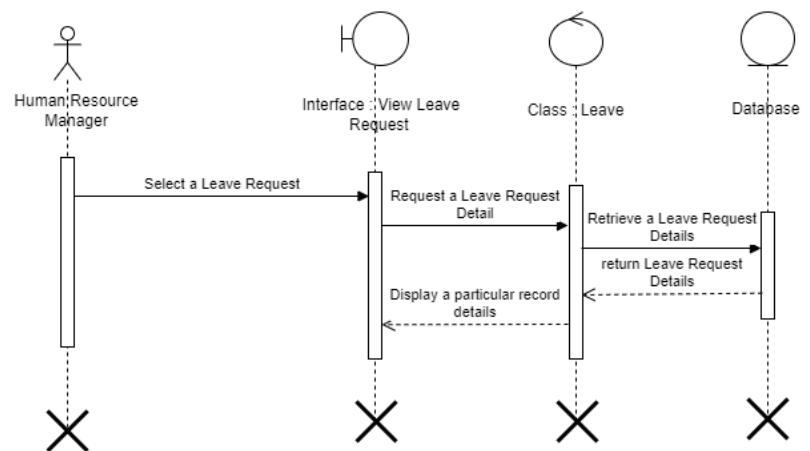
Schedule Employee Interview

Schedule Employee Interview



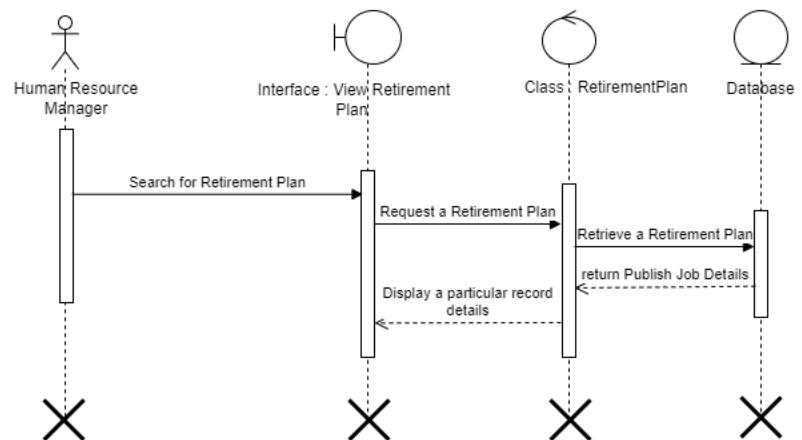
View Leave Request

View Leave Request



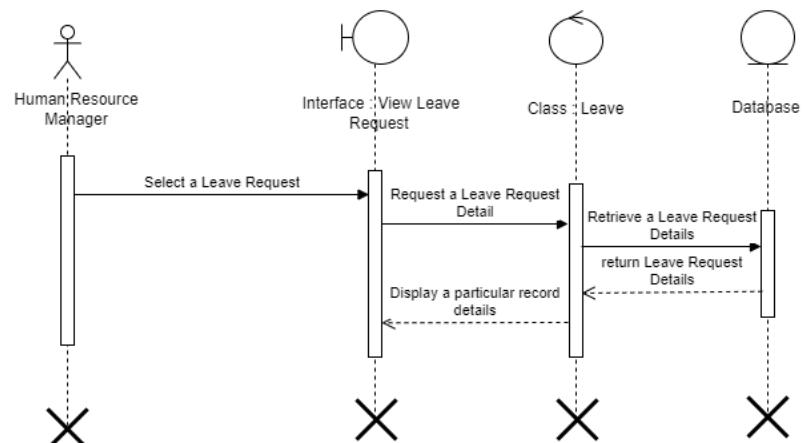
View Retirement Plan

View Retirement Plan



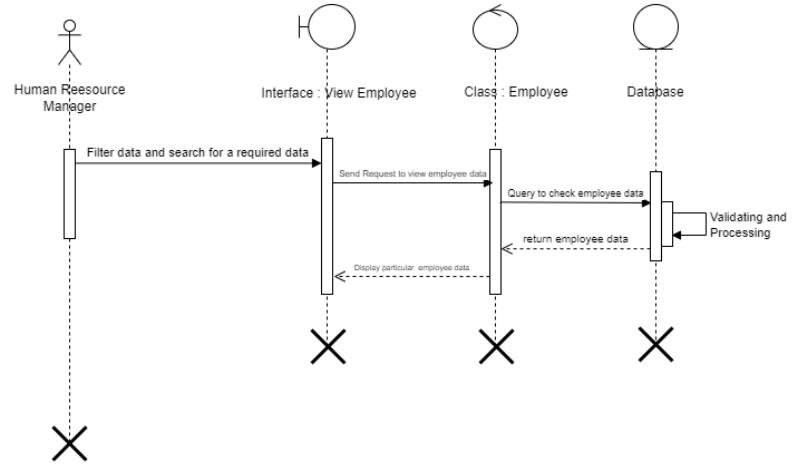
View Health Insurance

View Leave Request



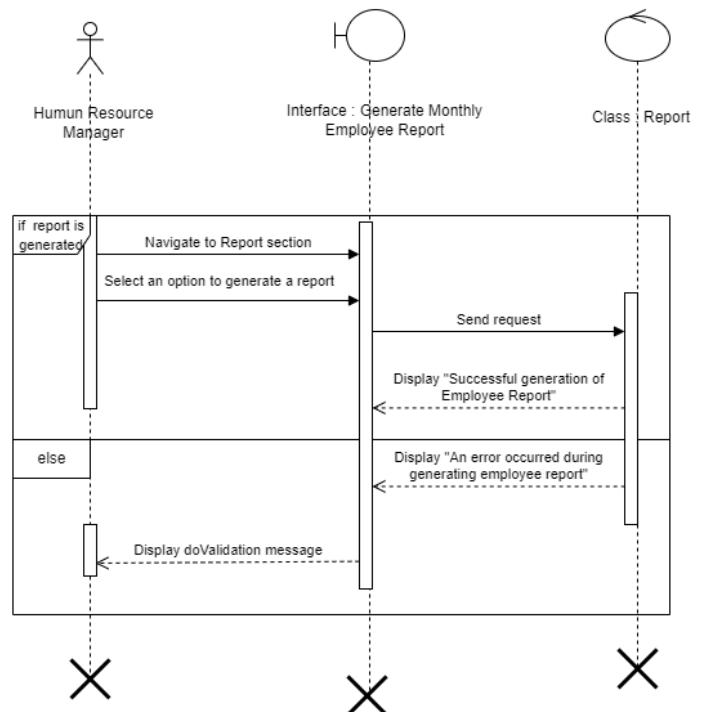
View Employee Information

View Employee Information



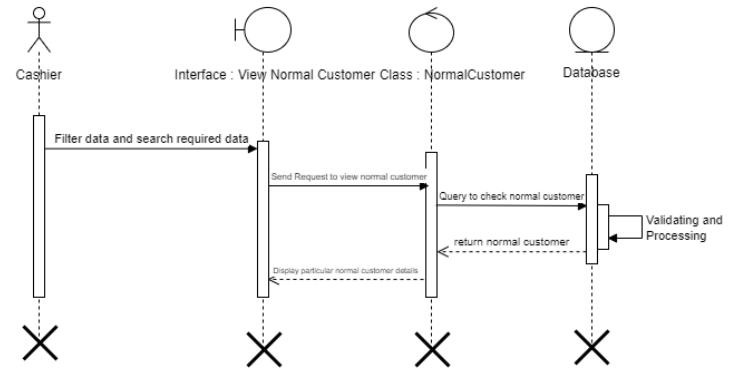
Generate Employee Report (Monthly)

Generate Monthly Employee Report



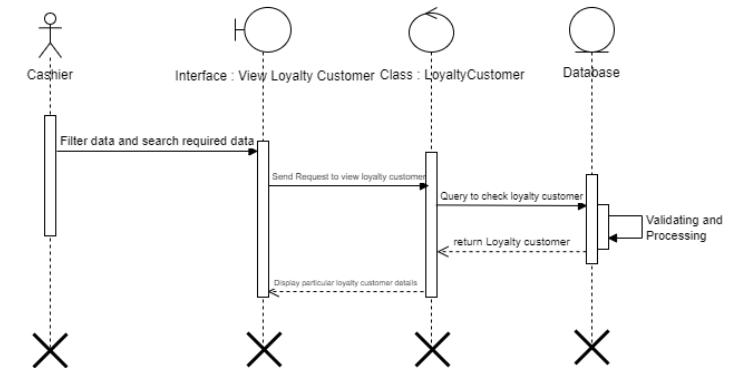
View Normal Customer

View Normal Customer



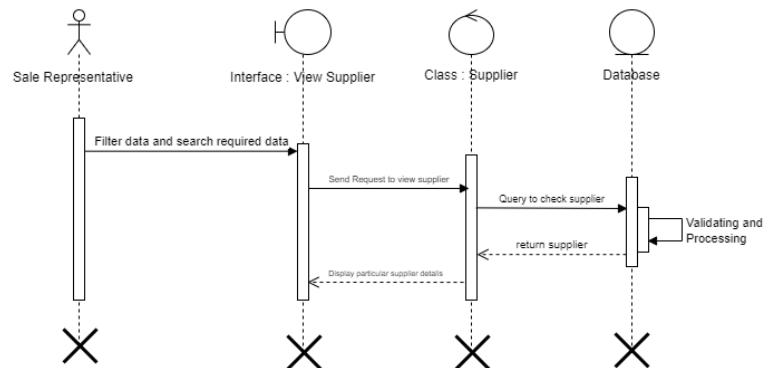
View Loyalty Customer

View Loyalty Customer



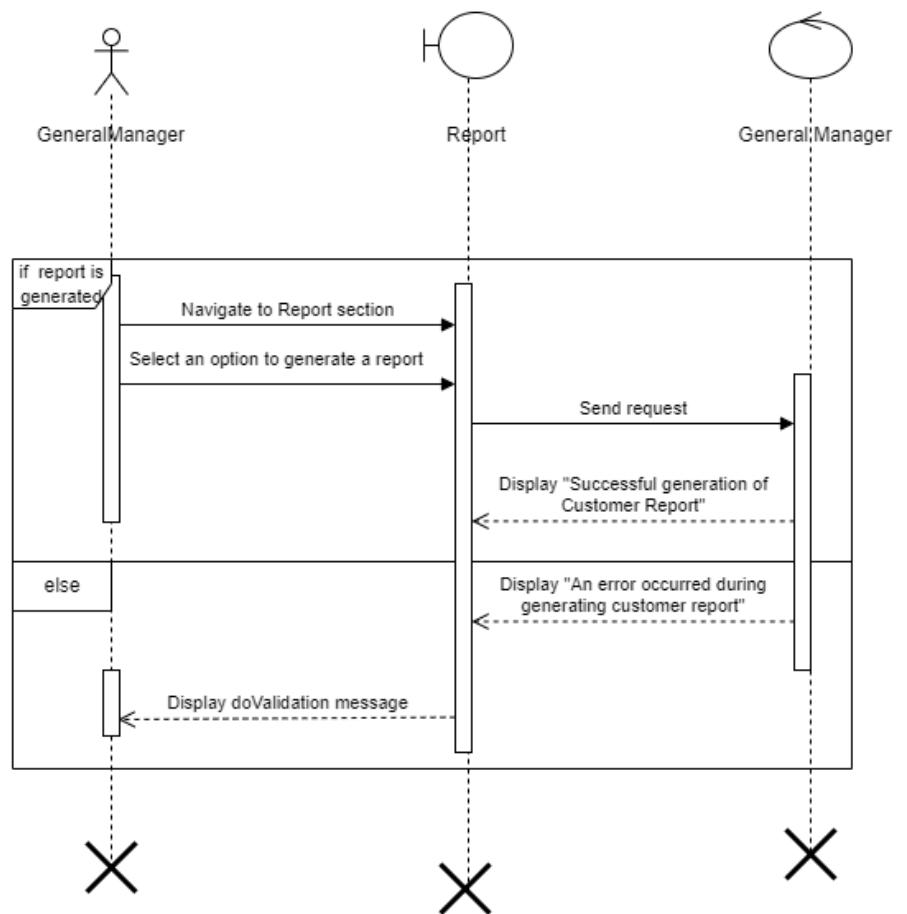
View Supplier

View Supplier



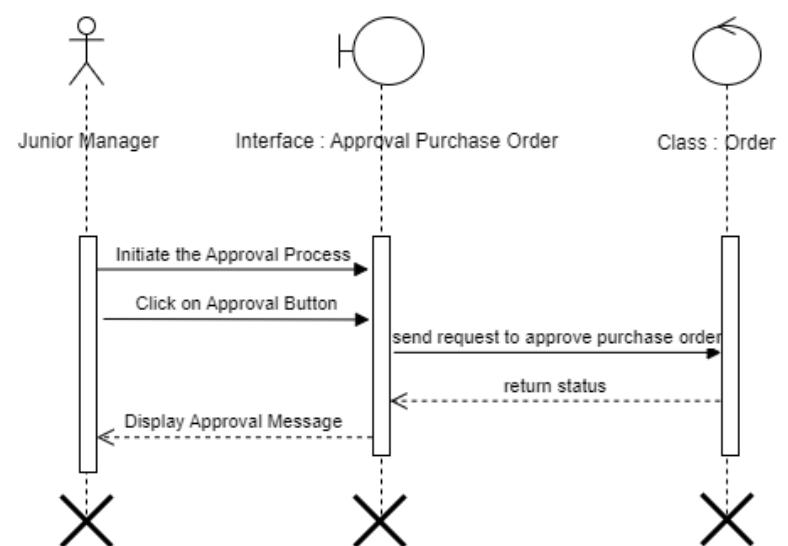
Generate Customer Report (Monthly)

Generate Customer Report



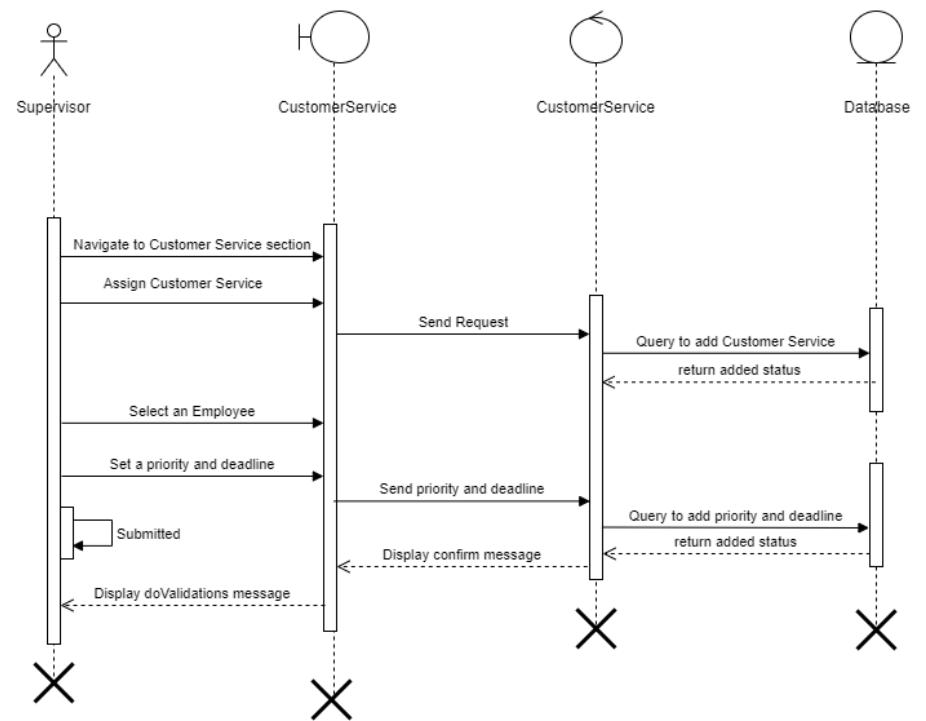
Approve Purchase Order

Approval for Purchase Order



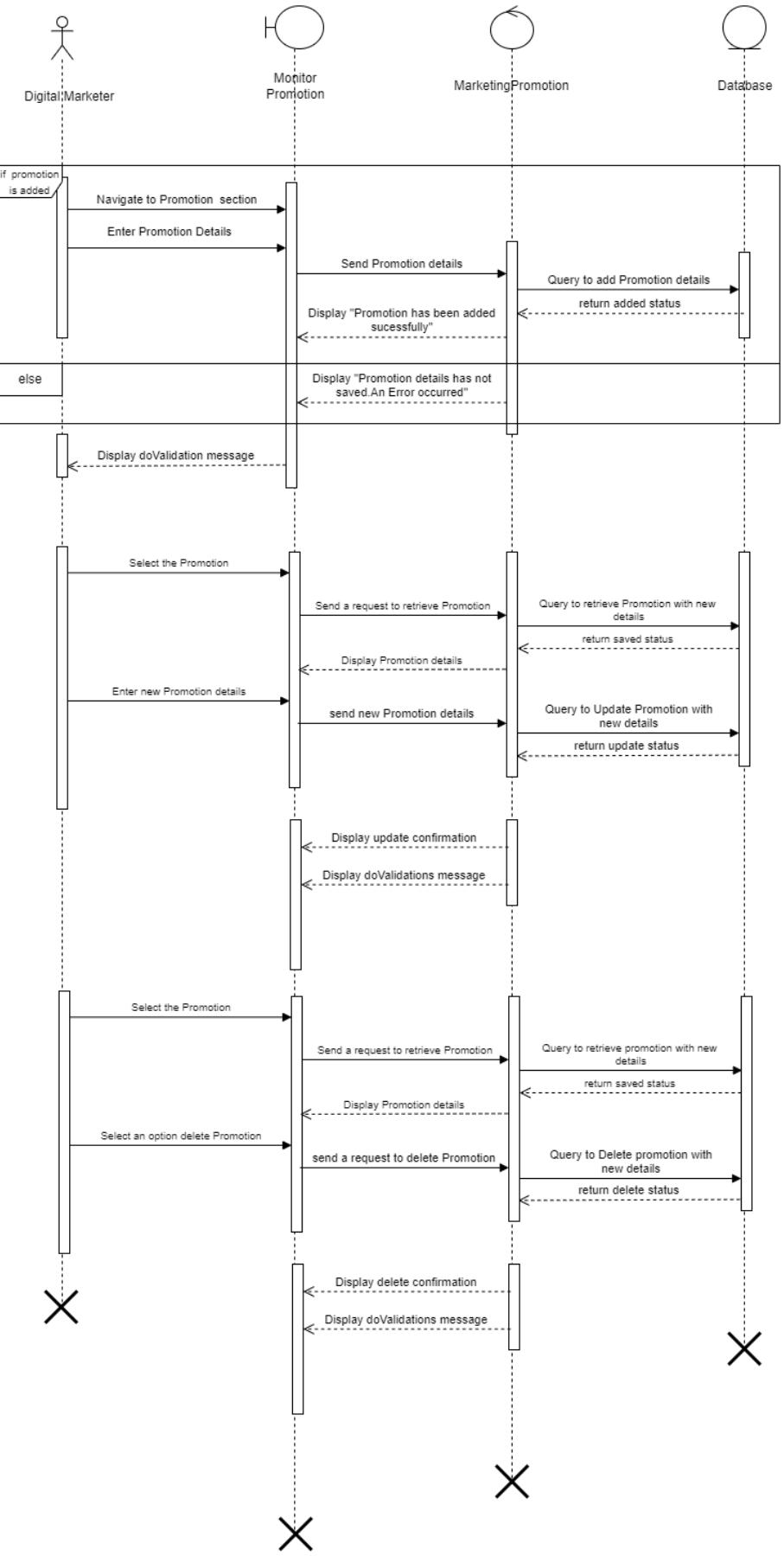
Assign Customer Service

Assign Customer Service



Monitor Promotion

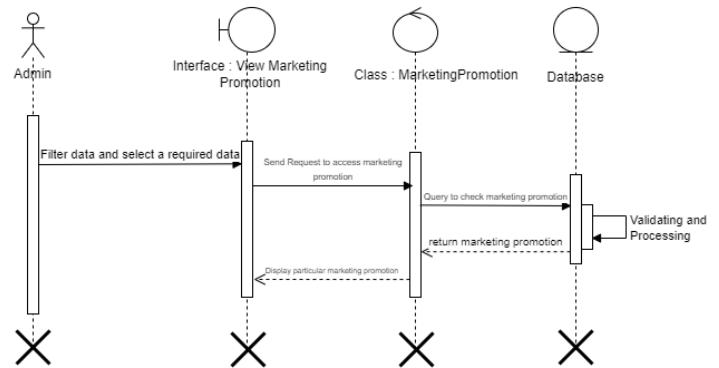
Monitor Marketing Promotion



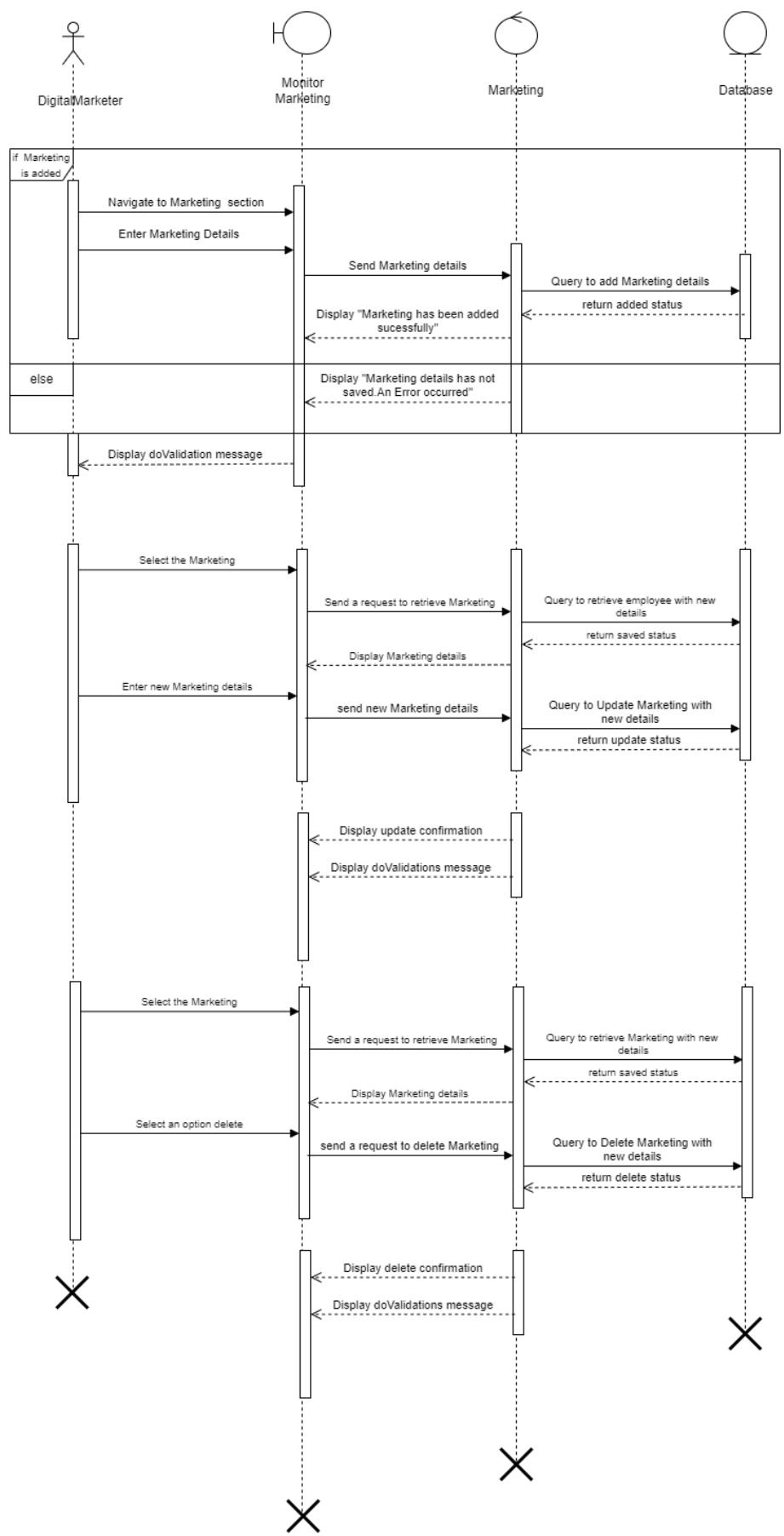
View Promotion

View Marketing Promotion

Monitor Marketing

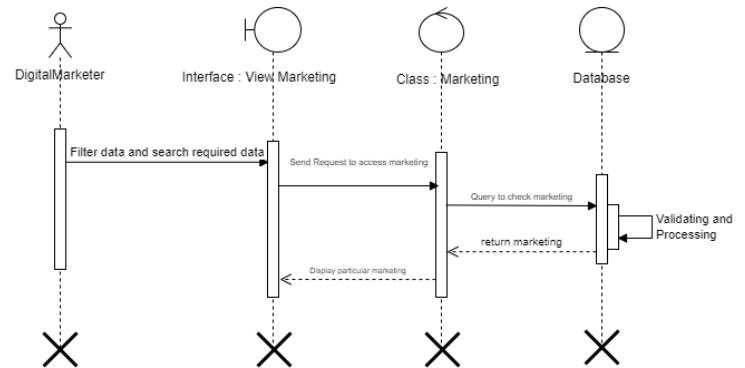


Monitor Marketing



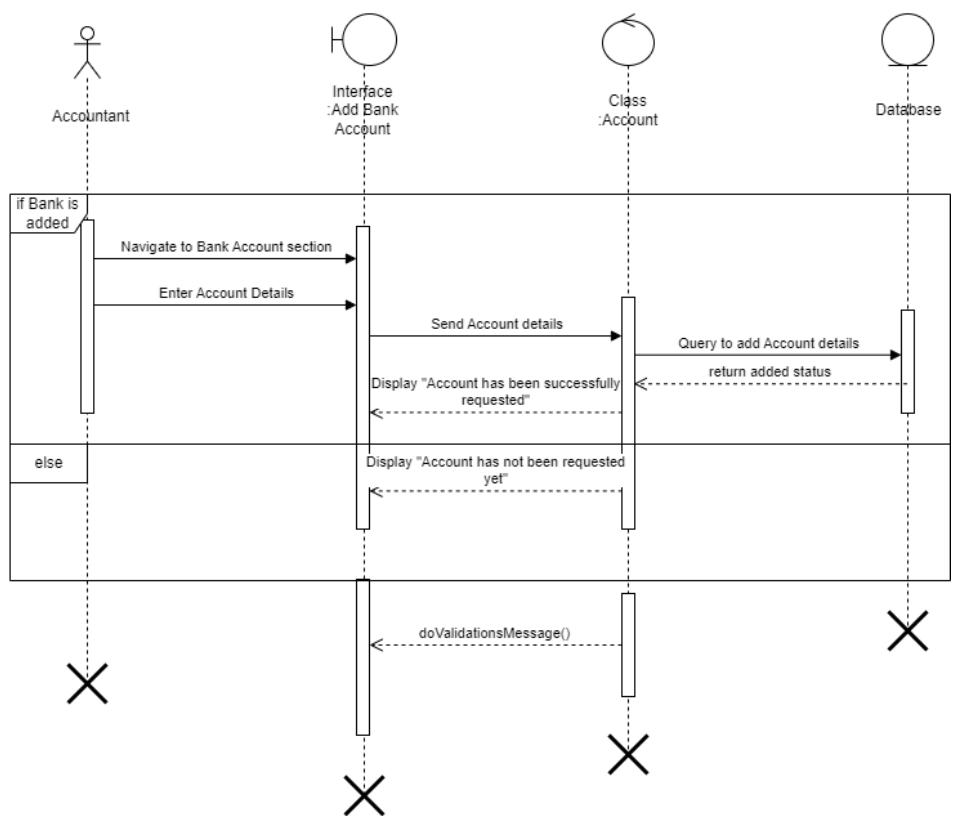
View Marketing

View Marketing



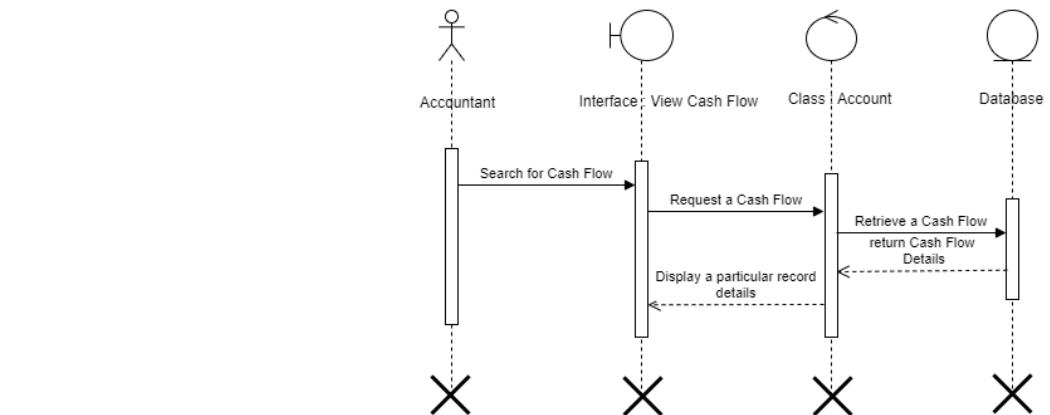
Add Account (Bank Account)

Add Bank Account



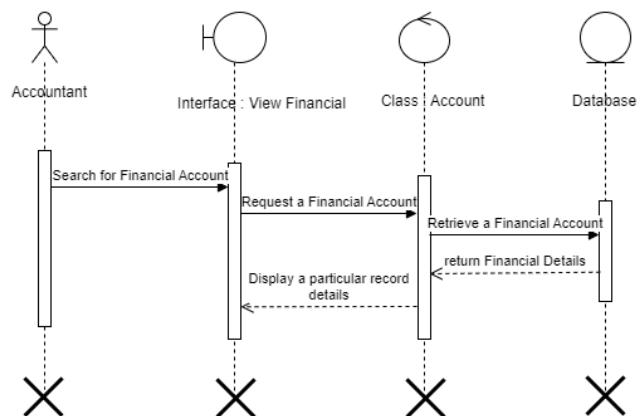
Show Cash Flow

Show Cash Flow



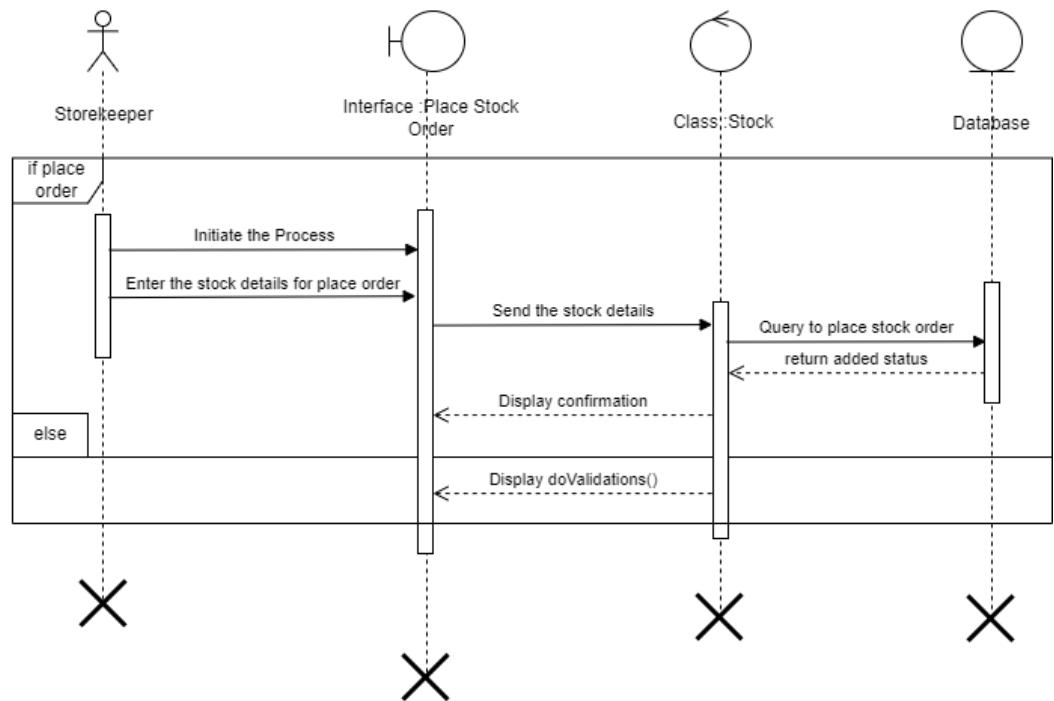
Access Financial

Access Financial



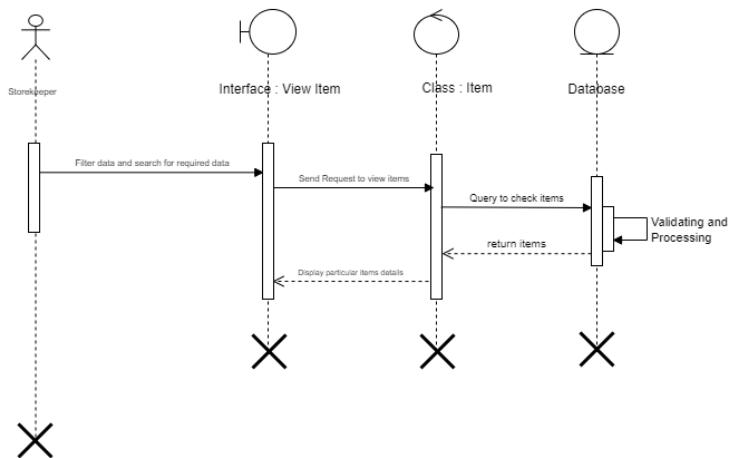
Place Stock Order

Place Stock Order



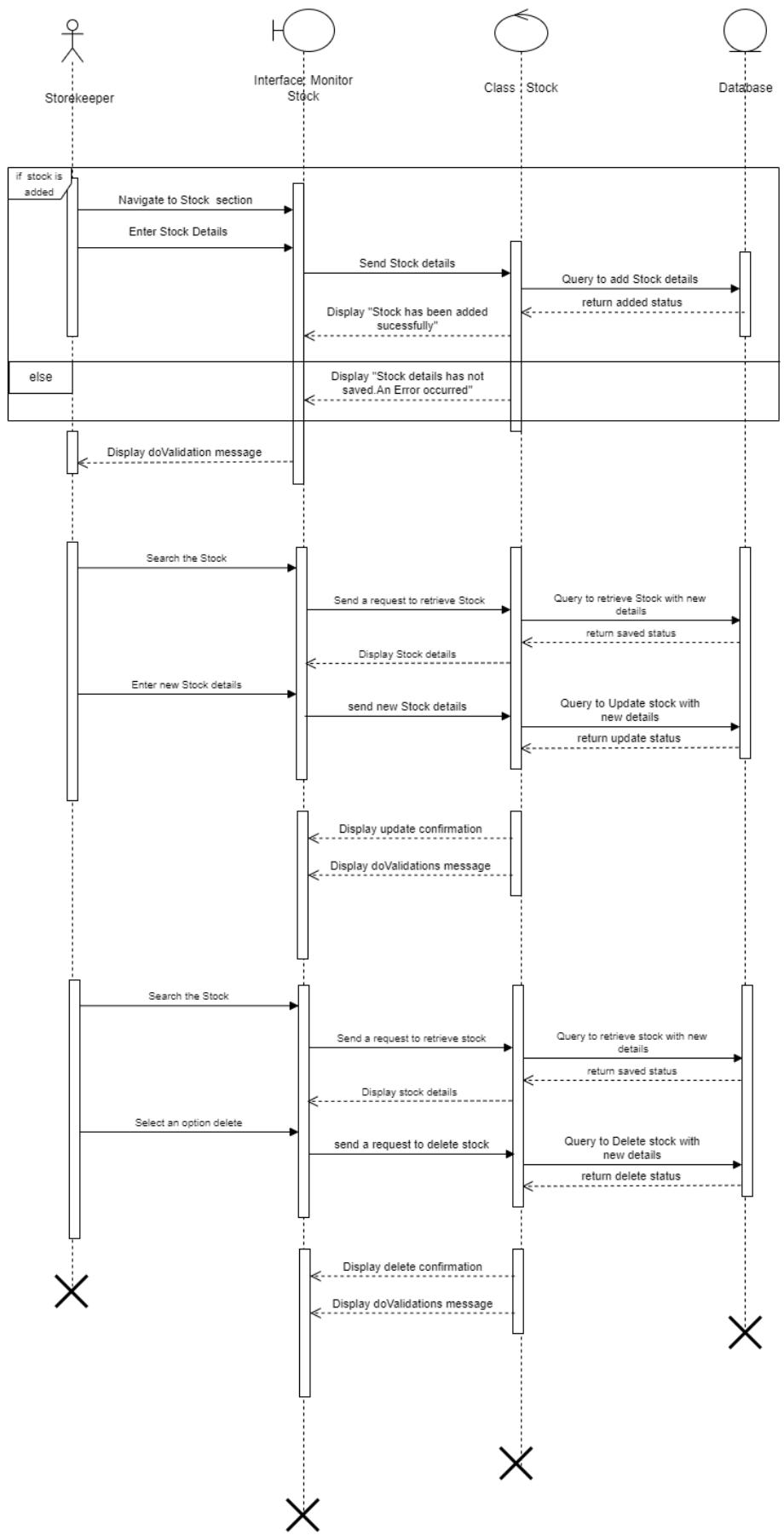
View Item

View Item



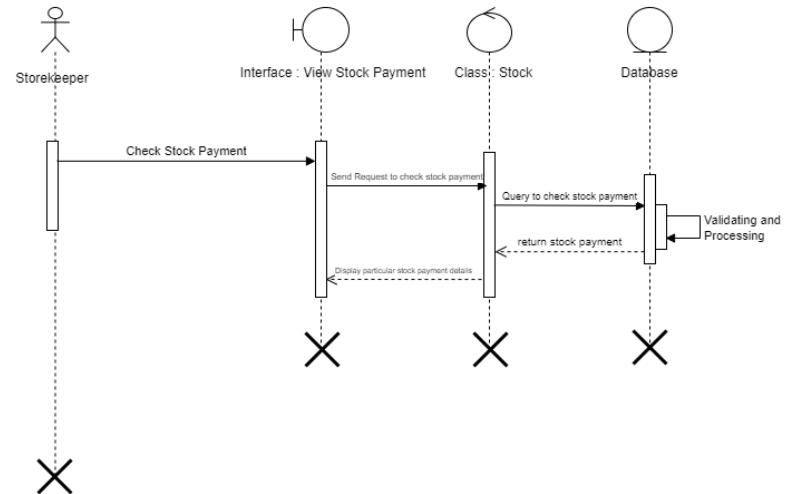
Monitor Stock

Monitor Stock



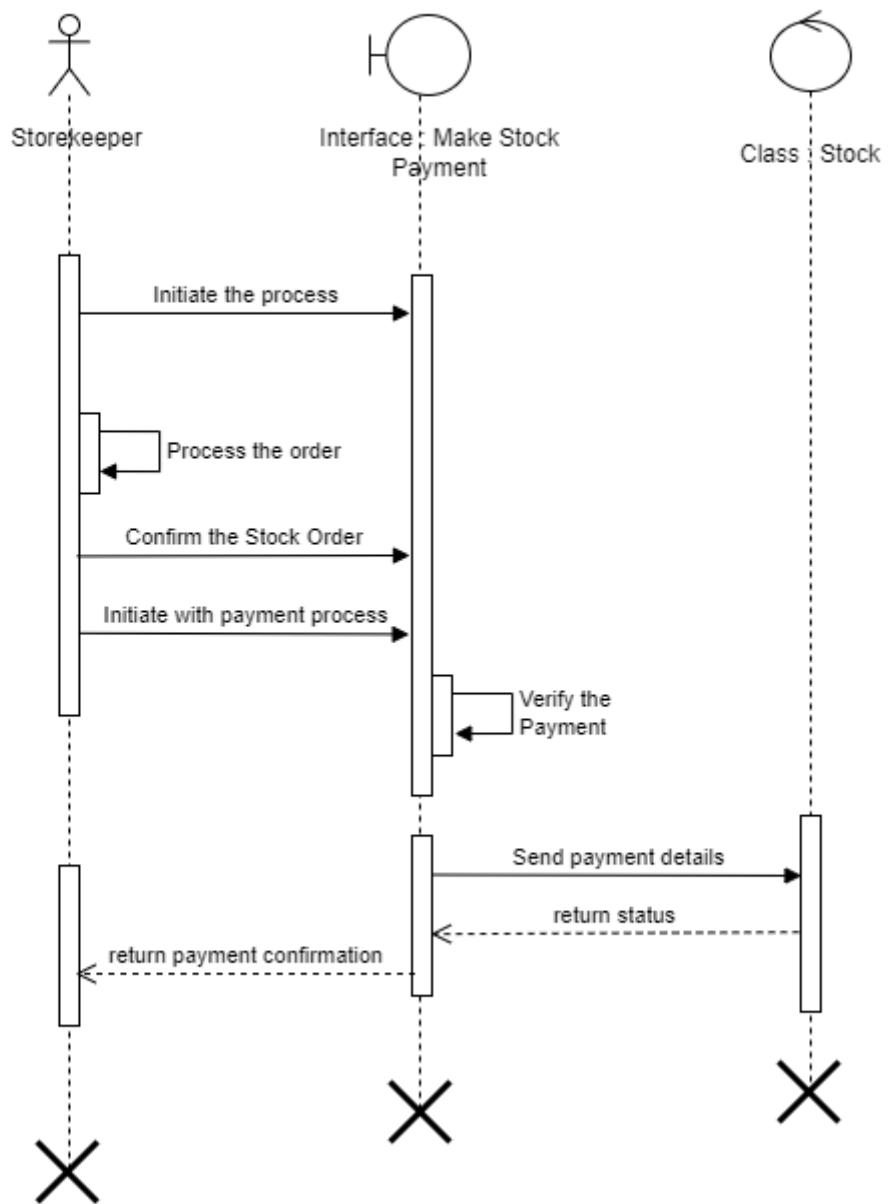
View Stock Payment

View Stock Payment



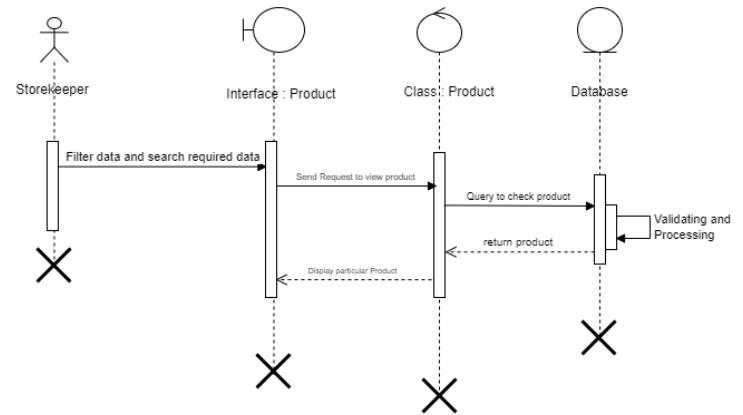
Make Stock Payment

Make Stock Payment



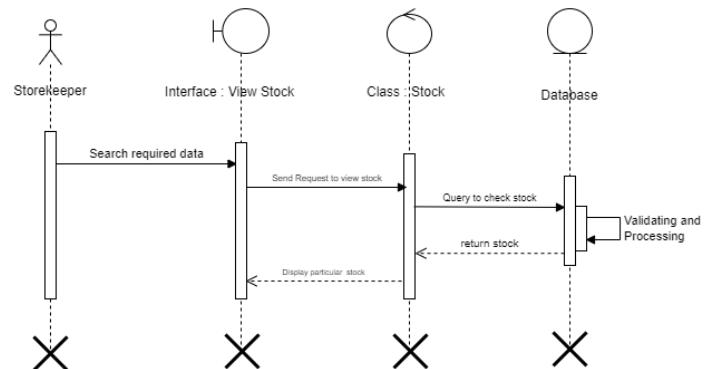
View Product

View Product



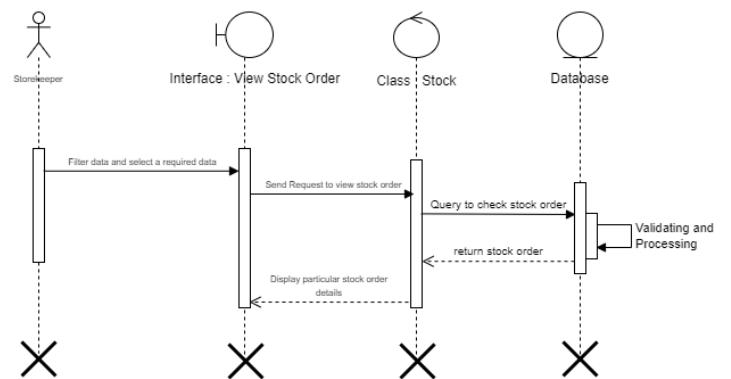
View Stock

View Stock



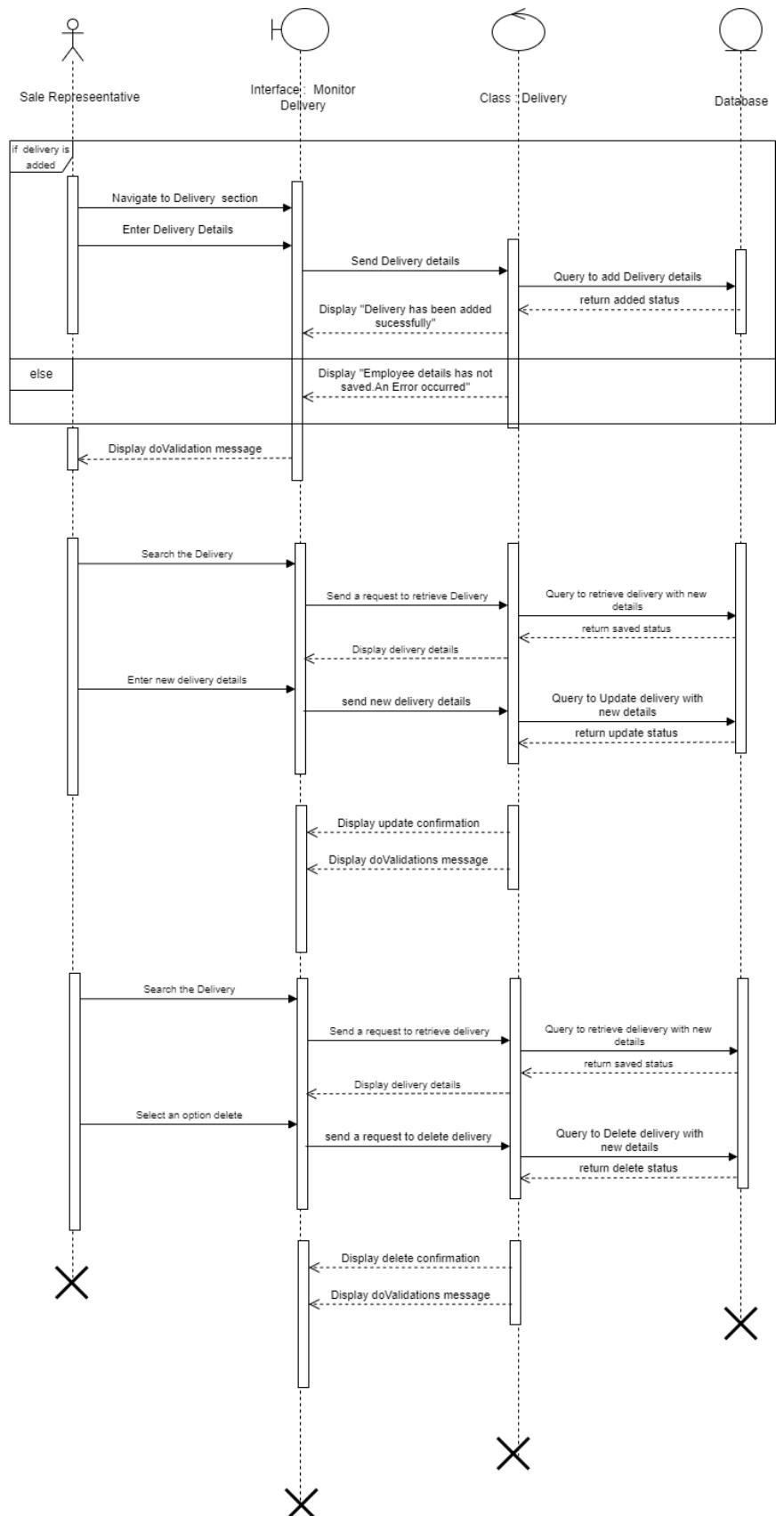
View Stock Order

View Stock Order



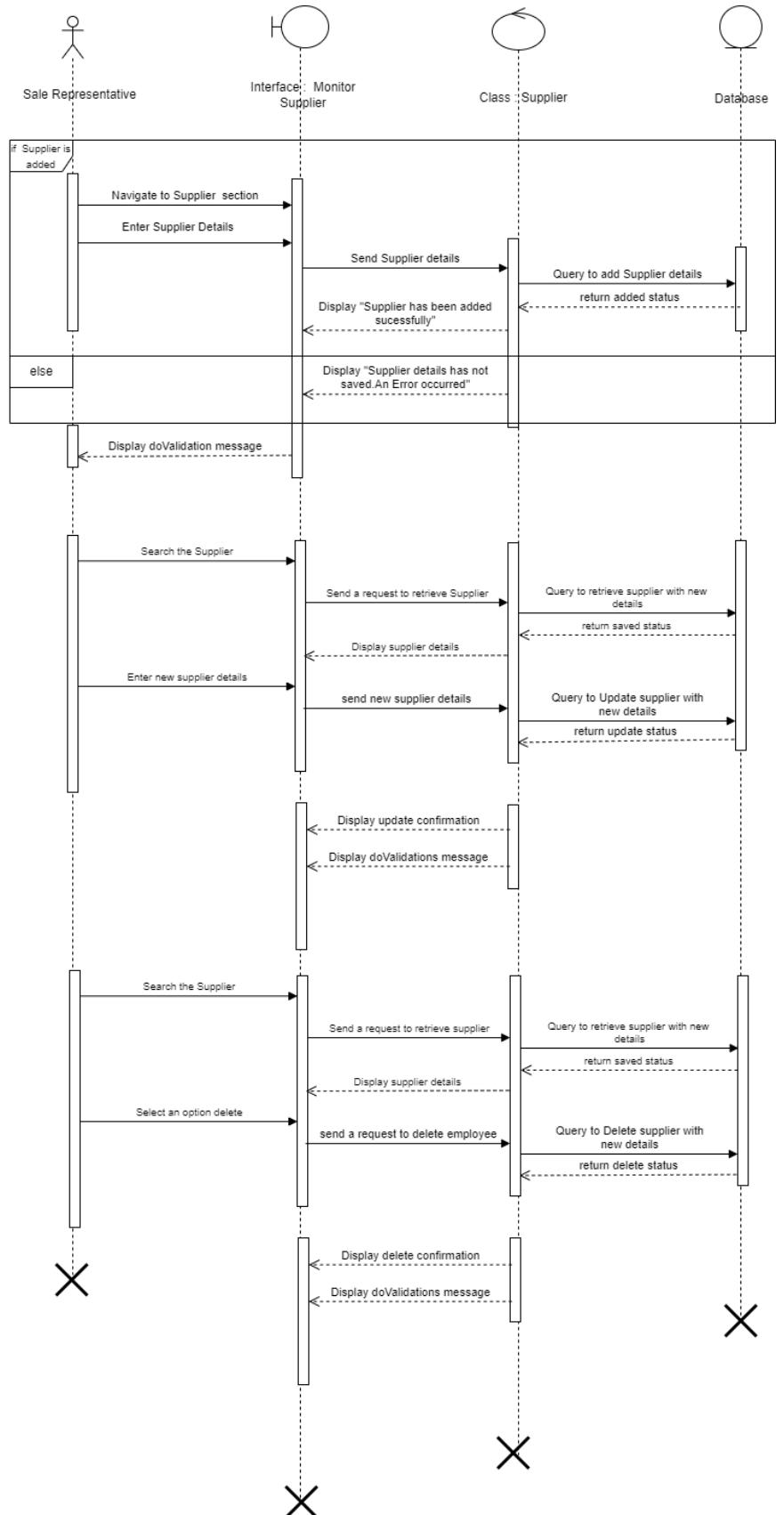
Monitor Delivery

Monitor Delivery



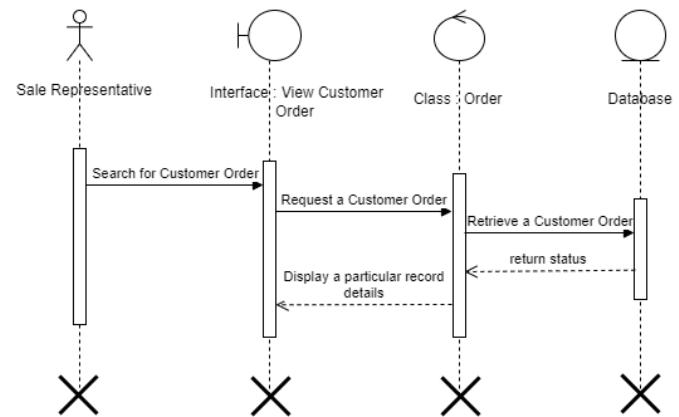
Monitor Supplier

Monitor Supplier



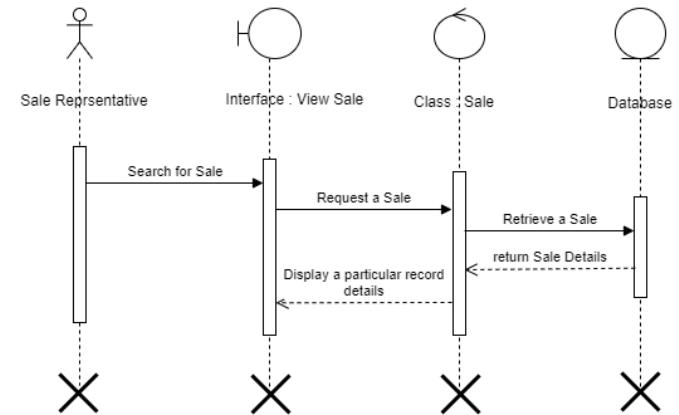
View Customer Order

View Customer Order



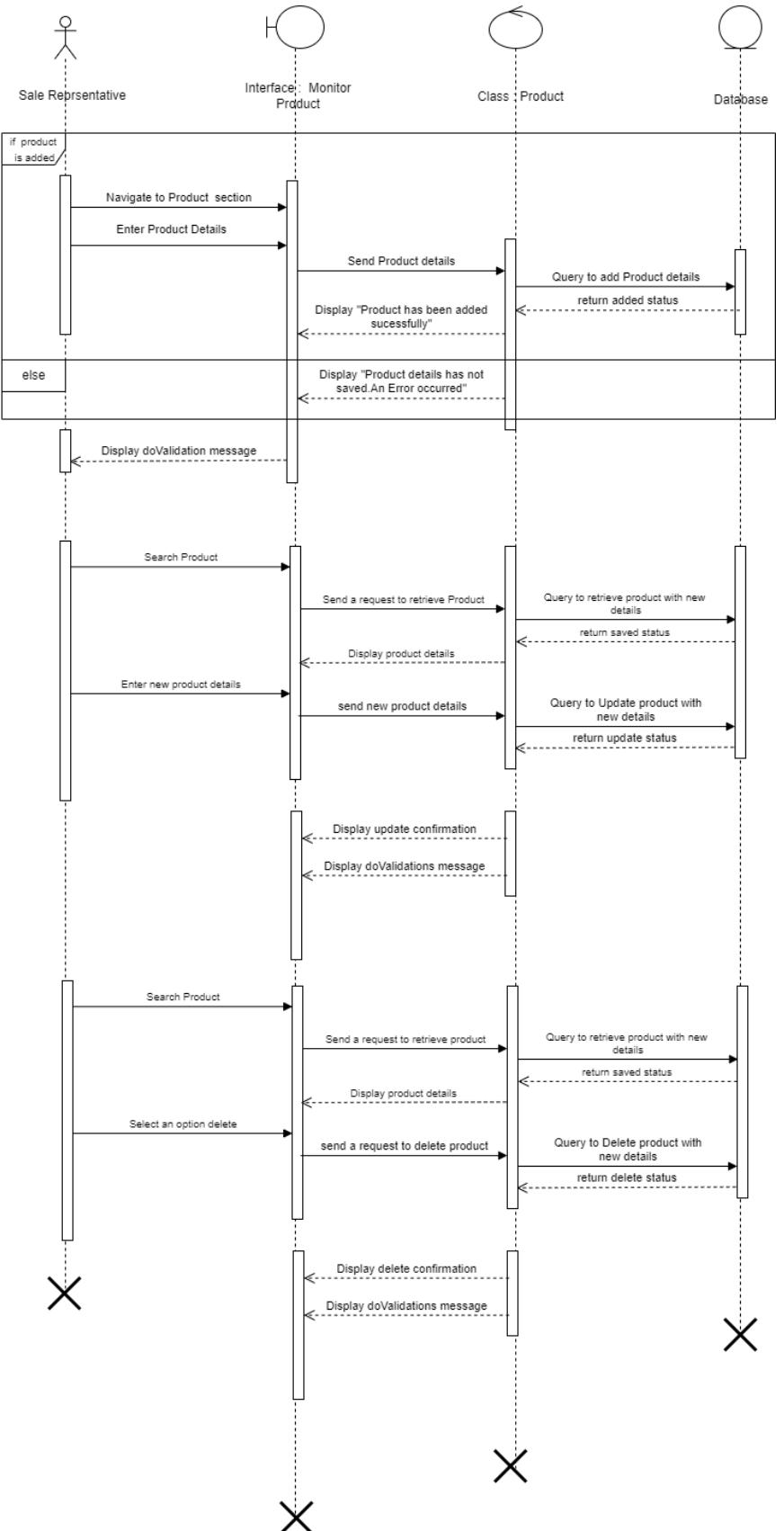
View Sale

View Sale



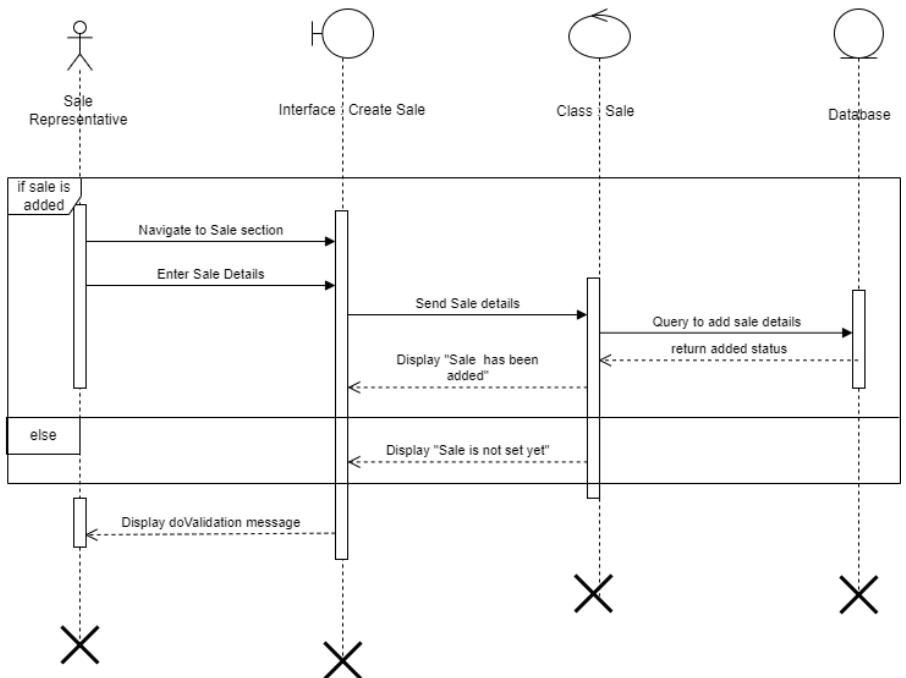
Monitor Product

Monitor Product



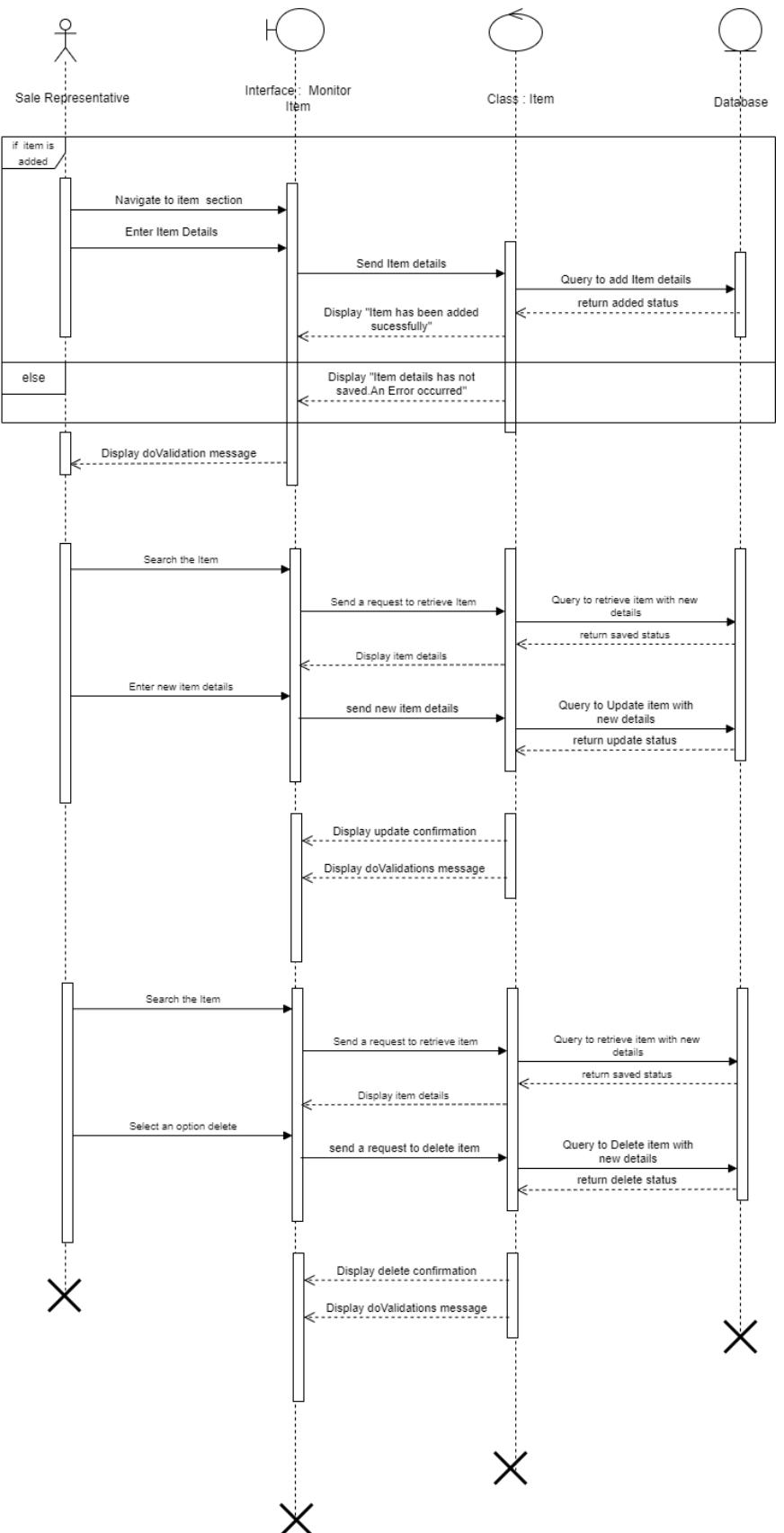
Create Sale

Create Sale



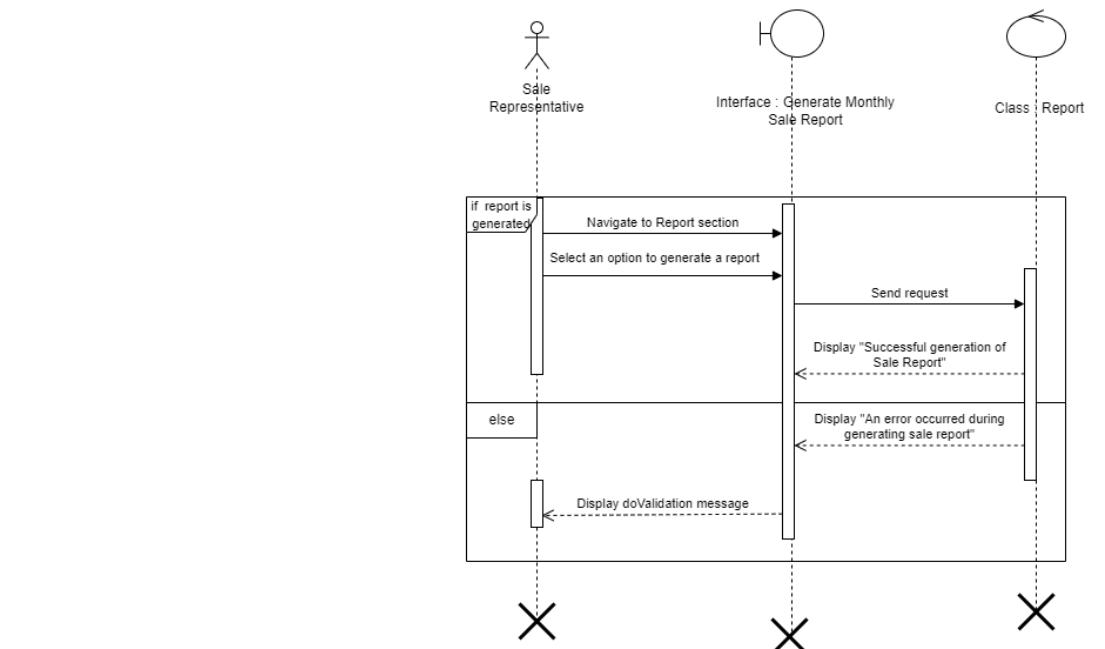
Monitor Item

Monitor Employee



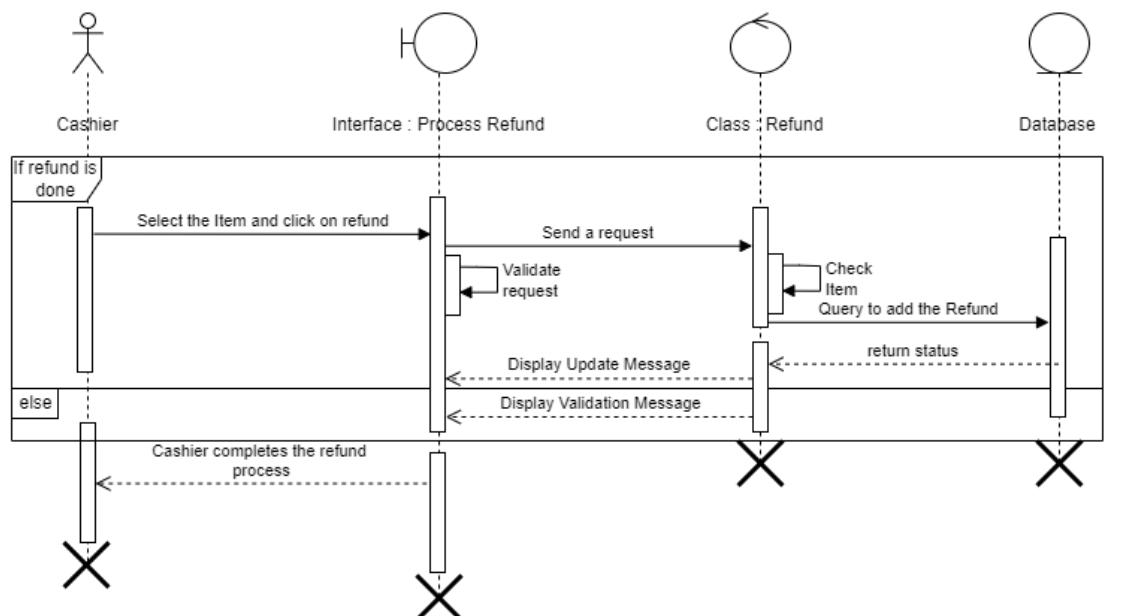
Create Sale Report (Monthly)

Generate Monthly Sale Report



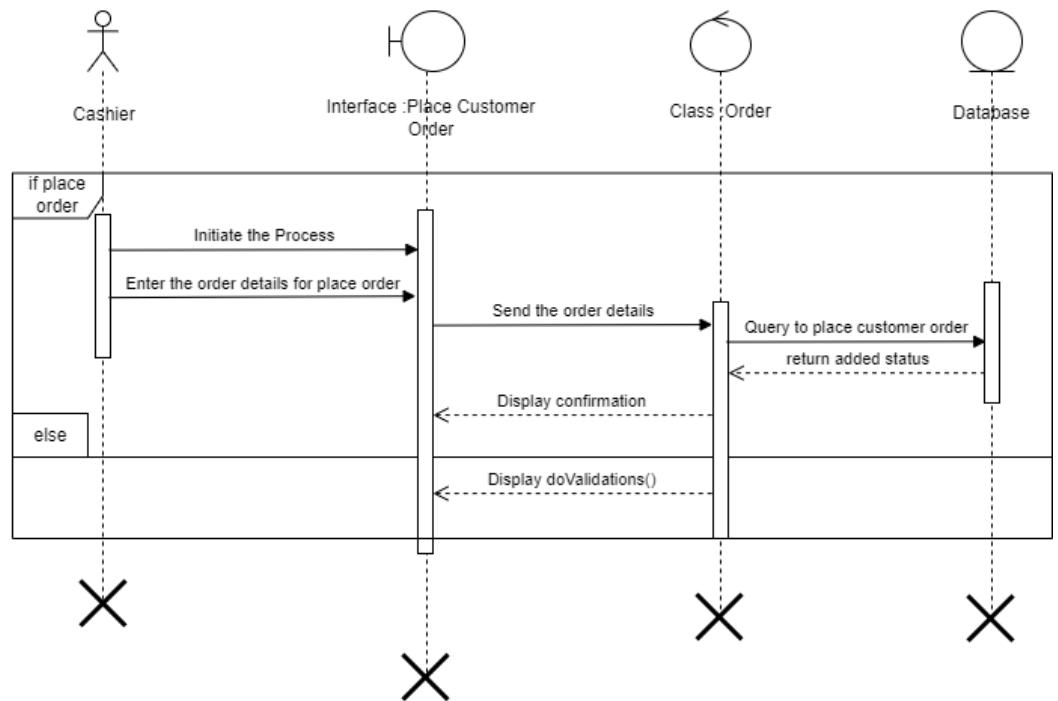
Process Refund

Process Refund



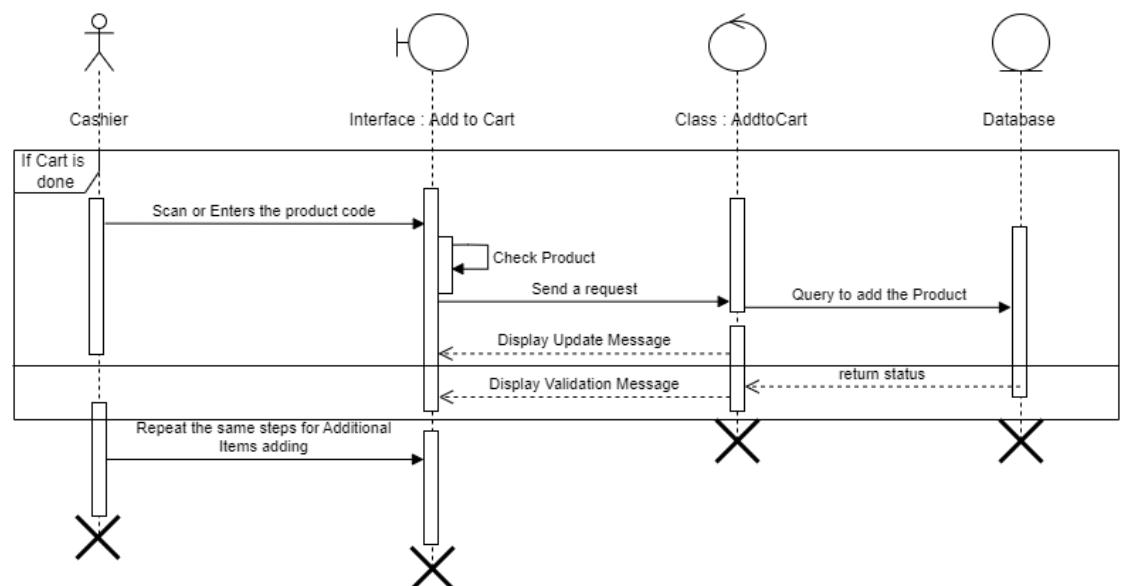
Place Customer Order

Place Customer Order



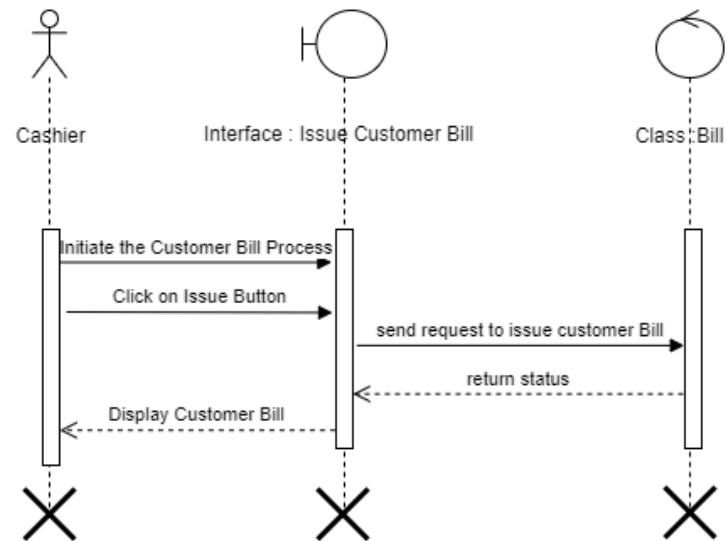
Add to Cart

Add to Cart



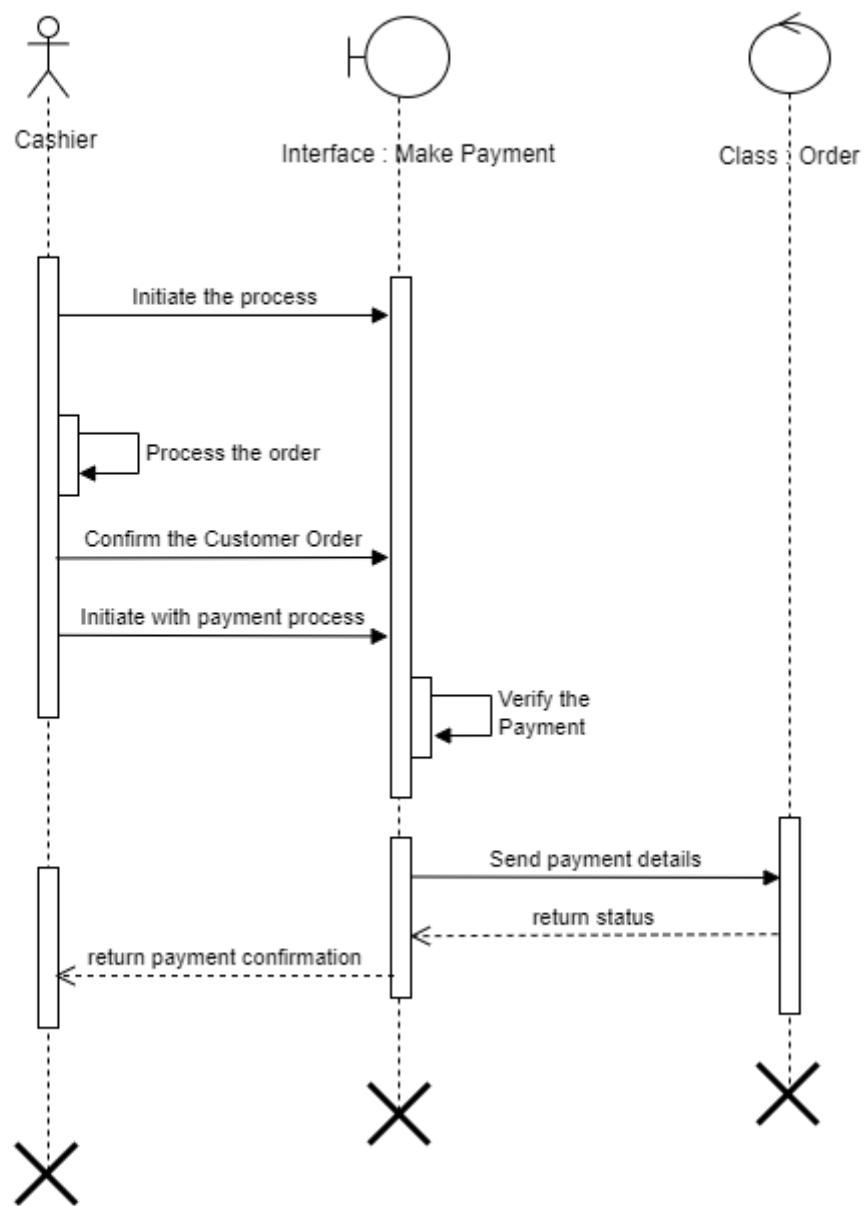
Issue Customer Bill

Issue Customer Bill



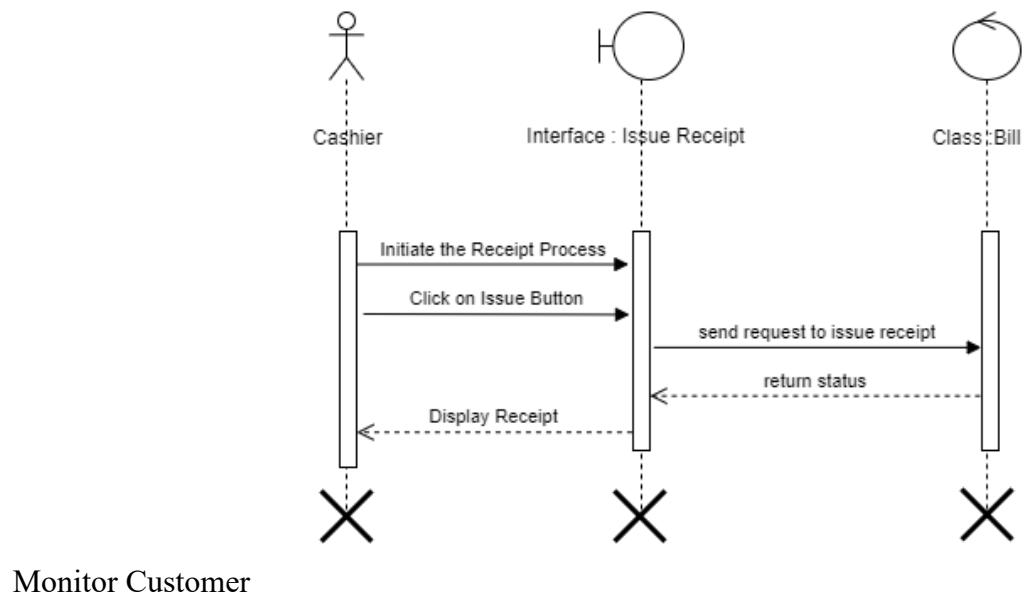
Make Payment

Make Payment



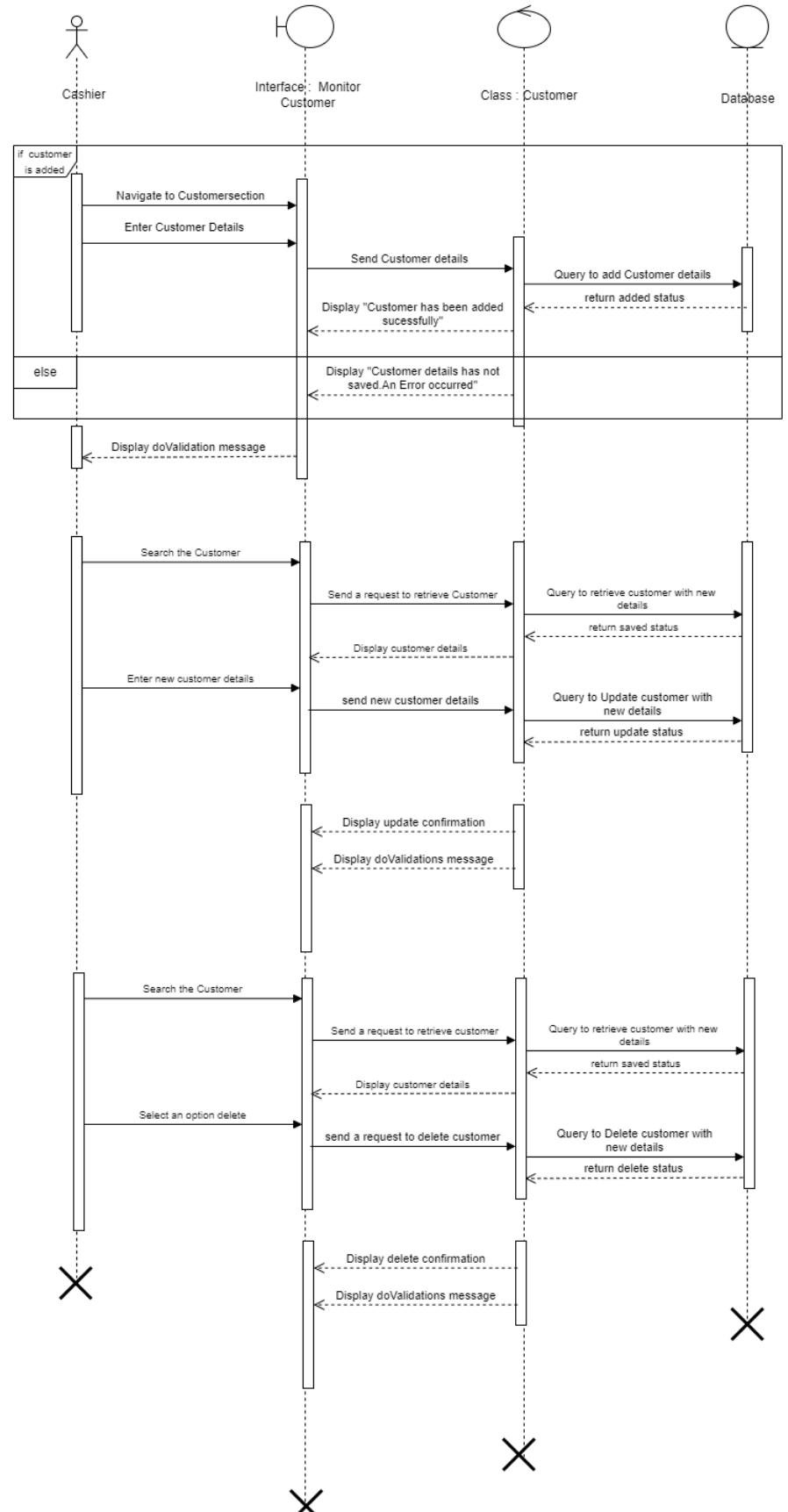
Issue Receipt

Issue Receipt



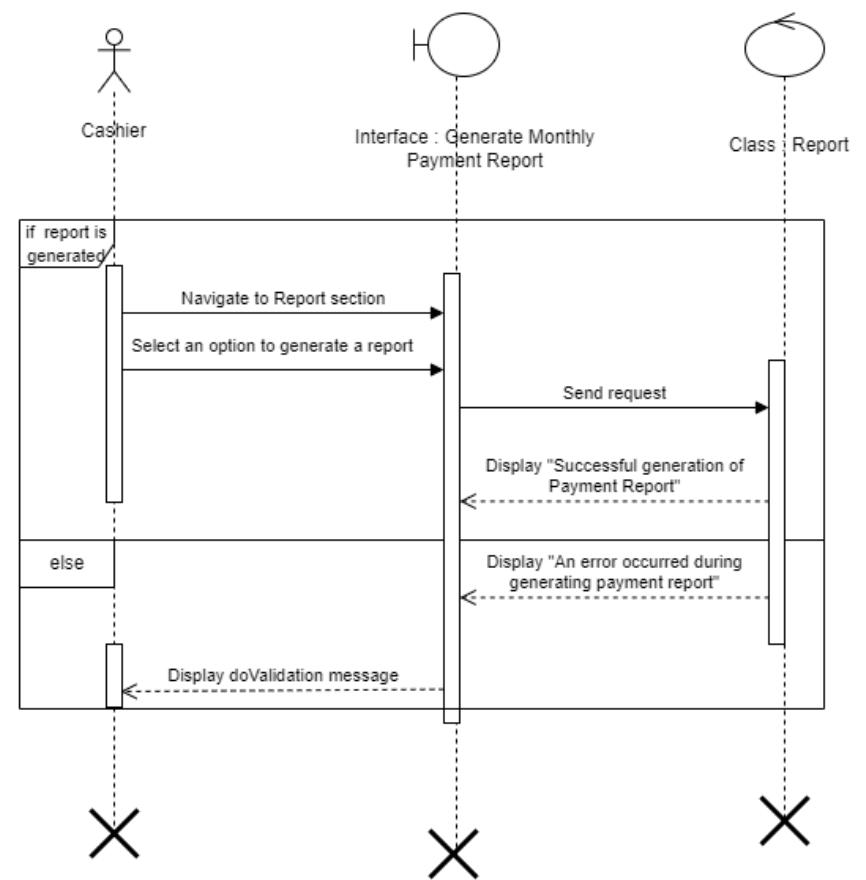
Monitor Customer

Monitor Customer

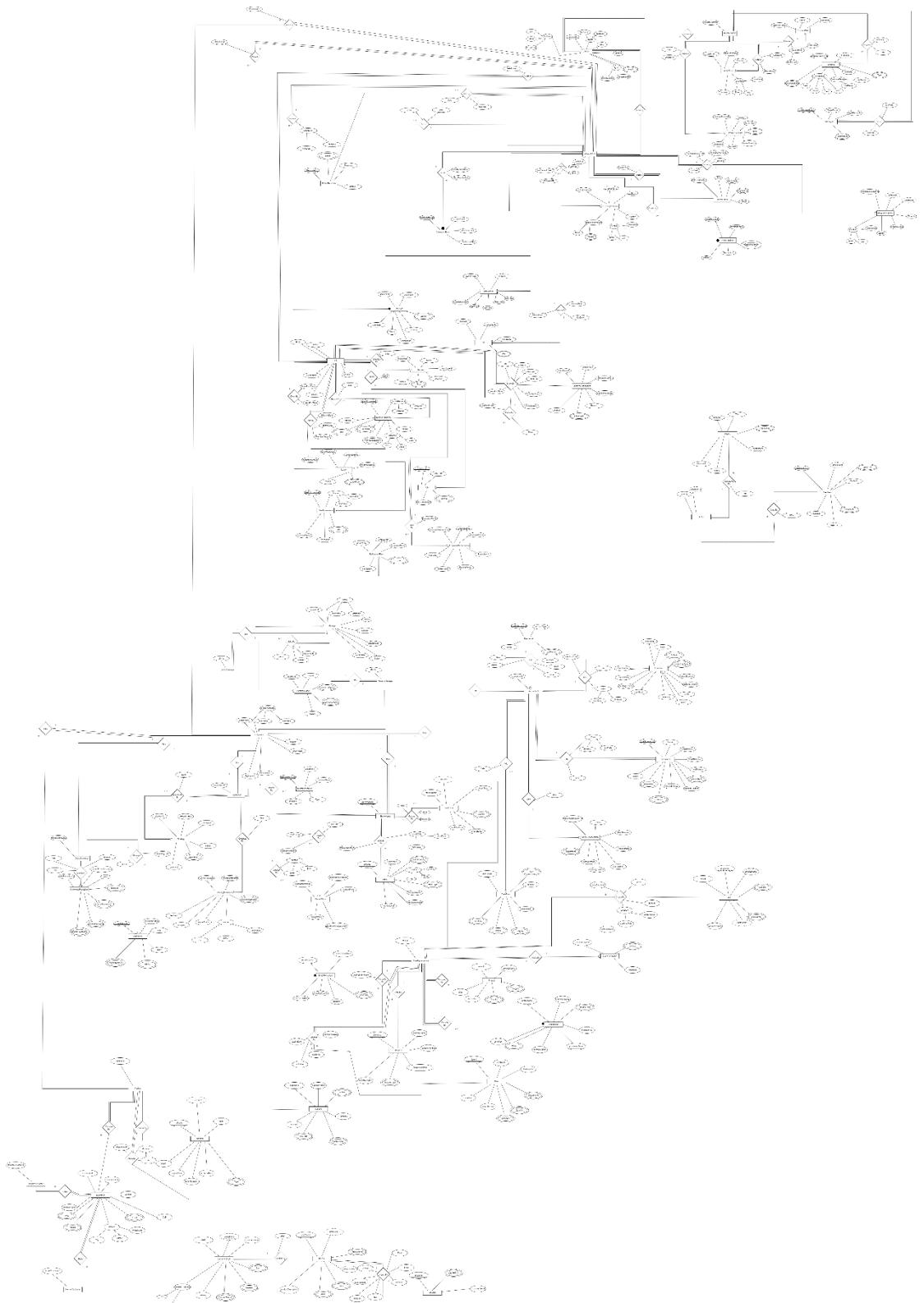


Generate Payment Report (Weekly)

Generate Monthly Payment Report



3.3 ER Diagram for Proposed System



3.4 Chapter Summary

This chapter introduces UML diagrams, a standardized visual language that is used in software systems. It covers wide range of behaviour, structure and logic how the system should be developed. Each UML consists of Use Case, Class, ER and Sequence Diagram for each specific task we have taken it for our project in order to plan our system. At the end of the UML Diagram it will get understand how the system should be structured and behave in the way the system should be build.

Chapter 4: Solution Design

4.1 Introduction

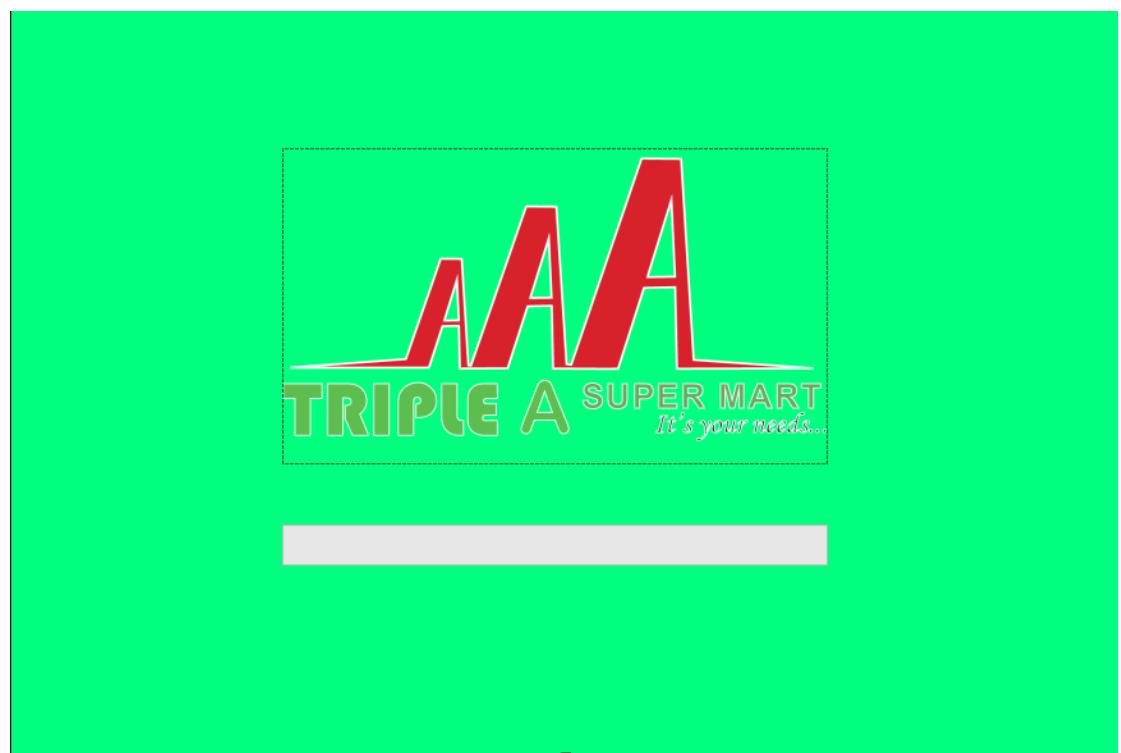
This chapter provides the overview of the User Interfaces designed to ensure that user gets user friendly, easy access, visually appealing elements. The importance that provides necessary information and avoiding any unnecessary features that cause the user to be not friendly not acceptable. The UI is a design that is built with programming language and database to be delivered a complete a software which can user access it and use it.

4.2 Interface Design

Interface Number: 01

Interface Name: Splash Screen

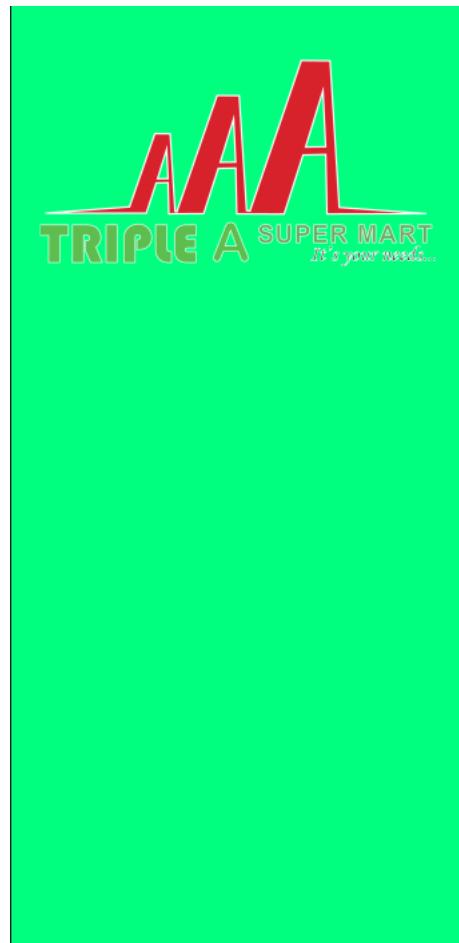
Description: Entry Point or Starting point of the system.



Interface Number: 02

Interface Name: Admin Login

Description: This allows the admins to log into the system and enhance with multi features.



The logo features three red stylized 'A' characters stacked vertically. Below them, the word "TRIPLE" is written in green, and "A" is in yellow. To the right of "A" is "SUPER MART" in green, and "It's your needs..." in smaller green text at the bottom.

→ X

Admin Login

Welcome to Login

Type

Username Enter Username or Email

Password Enter Password

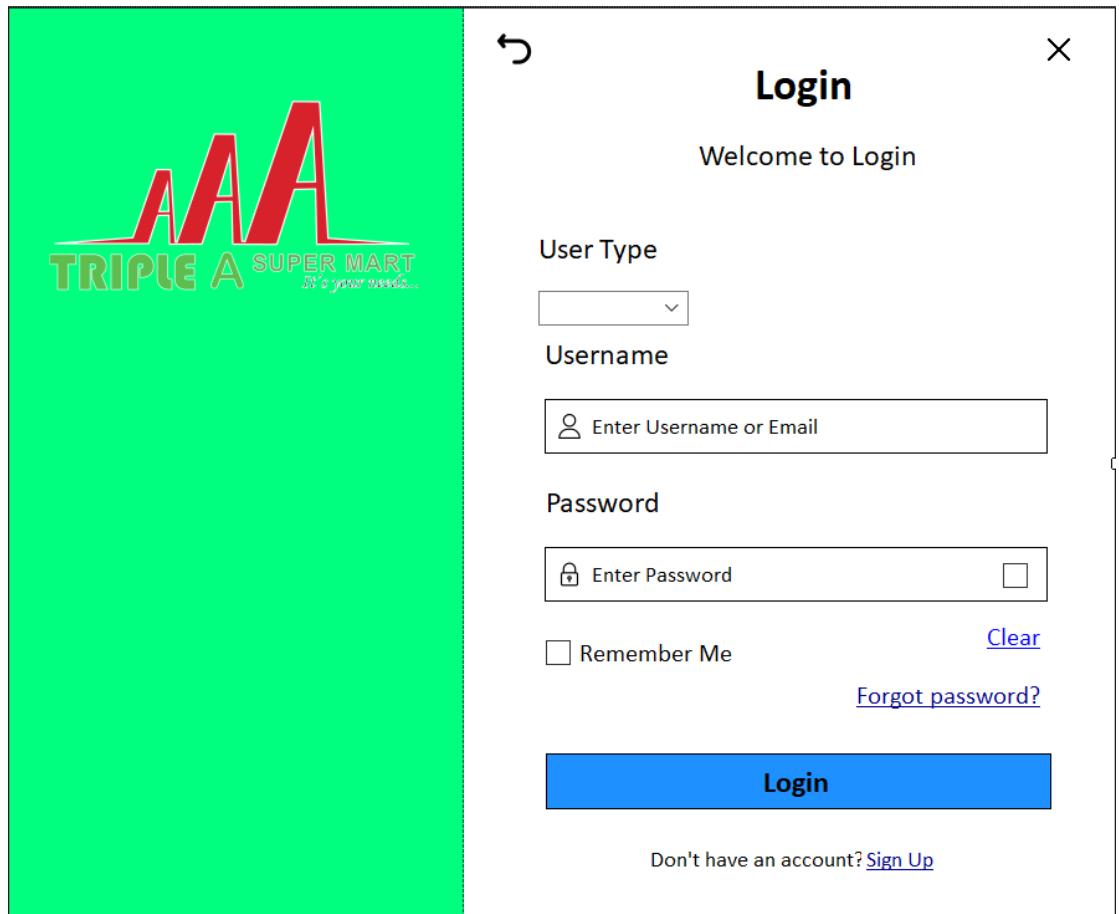
Remember Me Clear [Forgot password?](#)

Login

Interface Number: 03

Interface Name: Login

Description: It helps the users to log into the system and enhanced with features for different users



The image shows a login interface for a system named "TRIPLE A SUPER MART". The logo on the left features three red stylized 'A' characters above the text "TRIPLE A SUPER MART" and "It's your needs...". The right side contains a "Login" form with fields for User Type, Username, Password, and Remember Me, along with links for Clear, Forgot password?, and Sign Up.

Left side (Logo): TRIPLE A SUPER MART
It's your needs...

Right side (Form):

- User Type:
- Username: Enter Username or Email
- Password: Enter Password
- Remember Me Clear [Forgot password?](#)
-
- Don't have an account? [Sign Up](#)

Interface Number: 04

Interface Name: Create Account

Description: Users can create an account if there is no account found.



The form is titled "Create Account" and includes the following fields:

- User Type: A dropdown menu.
- Username: An input field with a user icon and placeholder "Enter Username".
- Email: An input field with an envelope icon and placeholder "Enter Email".
- Password: An input field with a lock icon and placeholder "Enter Password".
- Confirm Password: An input field with a lock icon and placeholder "Enter Confirm Password".
- A checkbox labeled "By clicking Create, you agree to our Terms and Conditions" with a "Clear" link next to it.
- A large blue "Create" button at the bottom.

Interface Number: 05

Interface Name: Send Feedback

Description: Users can send their messages through feedback session user friendly in order to maintain all their information.

The screenshot shows a user interface titled "Feedback". At the top right are navigation icons: a left arrow, a right arrow, and a close (X) button. Below the title is a placeholder text: "What do you want to send? Make all your doubts clear". The form consists of several input fields and a large text area:

- Feedback Id:** A text input field.
- Content:** A large text area labeled "What do you want to add?"
- Employee Id:** A text input field.
- Date:** A date picker showing "Saturday , August 31, 2024".
- User Type:** A dropdown menu.
- Send:** A blue button with a white "Send" label and a paperclip icon.

Interface Number: 06

Interface Name: Update Profile

Description: Admin can update their profile to update their details more.

Admin Profile



X

Update Profile

Welcome to Admin Profile

name

Id

First Name

Last Name

DoB

Saturday , Augus ▾

Gender

Male Female

Email

✉ Enter Email

SearchSaveClear



Interface Number: 07

Interface Name: User Profile

Description: User can update their profile to update their details more for each user of different roles.

User Profile




Update Profile

Welcome to User Profile

Id

First Name

Last Name

DoB

Gender

Email

User Type

Save

Interface Number: 08

Interface Name: Verification

Description: It might be necessary to identify the users by resetting the password.



Trust begins with Verification

Email

Send

Verification Code

Verify

Interface Number: 09

Interface Name: Forgot Password

Description: It helps the users to reset their password whenever they forgot the password through this system via processing the verification.



Lost your way? Let's reset and start a new

Username

 Enter Username

New Password

 Enter New Password

Confirm Password

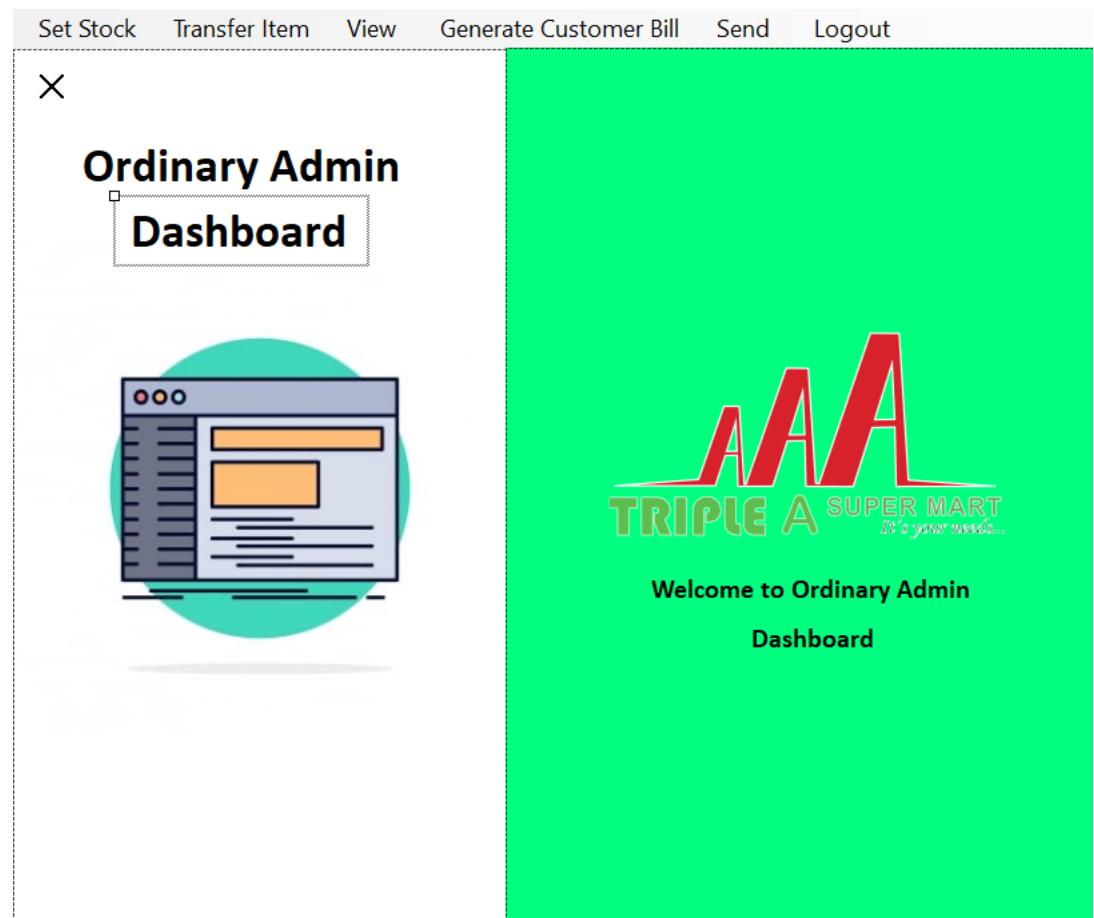
 Enter Confirm Password

Reset

Interface Number: 10

Interface Name: Ordinary Admin Dashboard

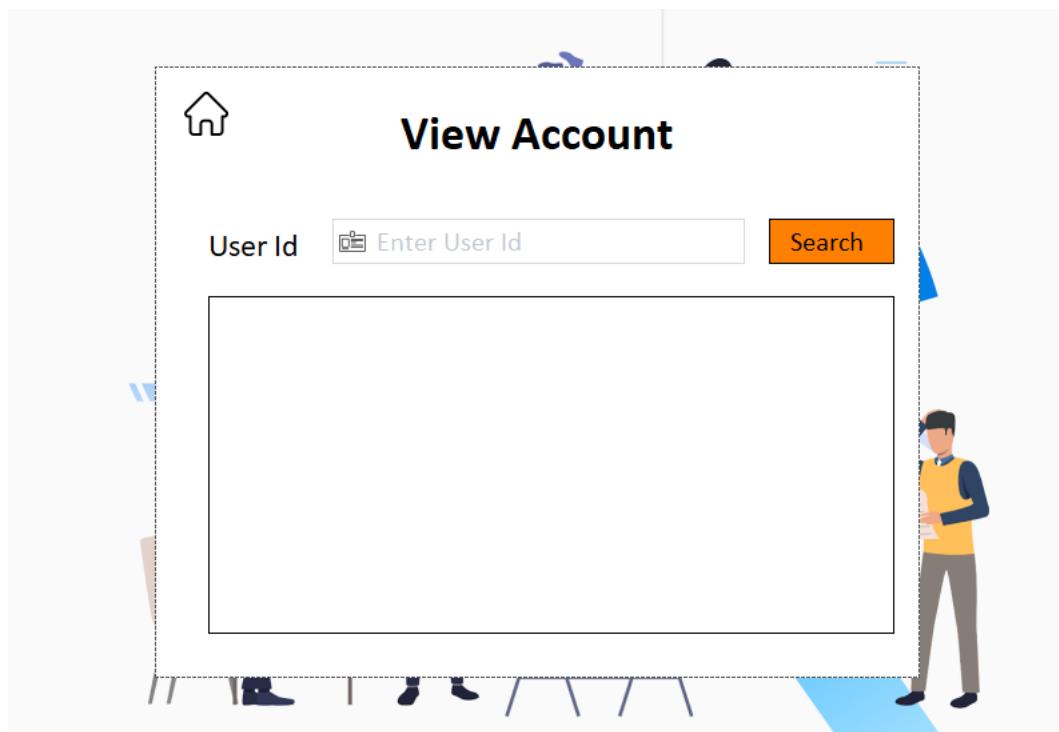
Description: Can see the features related to Ordinary Admin.



Interface Number: 11

Interface Name: View Account

Description: Displays all the users account details.



Interface Number: 12

Interface Name: Set Minimum Stock

Description: Ordinary admin can change or update stock levels.

Set Minimum Stock

Id	Stock Date
<input type="text" value="Enter Stock Id"/>	Sunday , September ▾
Stock Name	Last Updated Date
<input type="text" value="Enter Stock Name"/>	Sunday , September ▾
Stock Type	Reorder Level
<input type="text" value="▼"/>	<input type="text" value="▼"/>
Quantity	
<input type="text" value="Enter Qu."/>	<input type="button" value="Set"/> <input type="button" value="Search"/>

Interface Number: 13

Interface Name: Set Stock Price

Description: Can update the stock price.

Set Stock Price

Id	Search	Cost
<input type="text"/> Enter Stock Id	<input type="text"/> Enter Stock Cost	
Stock Name	Stock Date	
<input type="text"/> Enter Stock Name	Sunday , September 15	
Stock Type	Last Updated Date	
<input type="text"/> ▼	Sunday , September 15	
Stock Weight		Set
<input type="text"/> ▼		

Interface Number: 14

Interface Name: Transfer Stock Item

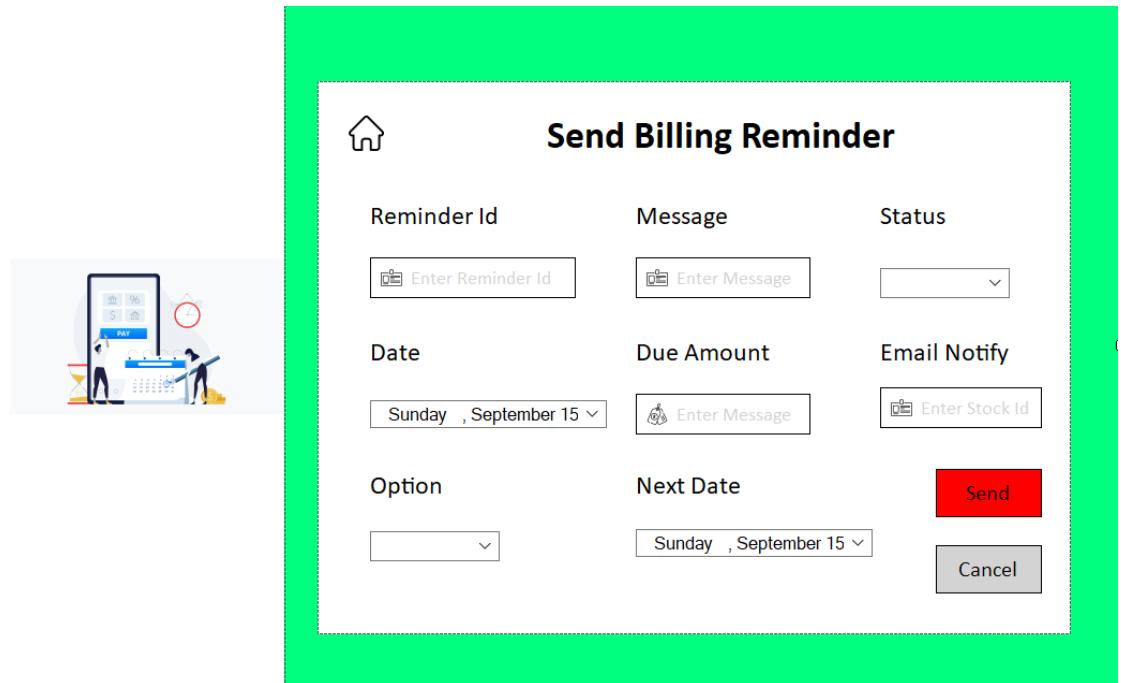
Description: Ordinary admin can send item details to the sale to restock it in their system.

The diagram illustrates the 'Transfer Item' interface. On the left, a character is shown holding a clipboard. The interface itself has a header 'Transfer Item' with a house icon. It contains several input fields: 'Item Id' with a barcode icon and 'Enter Item Id' placeholder; 'Quantity' with a hand icon and 'Enter Quantity' placeholder; 'Item Name' with a tag icon and 'Enter Item Name' placeholder; 'Category' with a dropdown arrow icon; 'Description' with a tag icon and 'Description' placeholder; 'Email' with an envelope icon and 'Enter Email' placeholder; and a large orange 'Transfer' button at the bottom.

Interface Number: 15

Interface Name: Send Billing Reminder

Description: Can send the billing reminder via email to notify the customers who are still unpaid.



The screenshot shows a user interface titled "Send Billing Reminder". The interface is divided into several sections:

- Reminder Id:** A text input field labeled "Enter Reminder Id".
- Message:** A text input field labeled "Enter Message".
- Status:** A dropdown menu.
- Date:** A date picker set to "Sunday, September 15".
- Due Amount:** A text input field labeled "Enter Message".
- Email Notify:** A text input field labeled "Enter Stock Id".
- Option:** A dropdown menu.
- Next Date:** A date picker set to "Sunday, September 15".
- Buttons:** A red "Send" button and a grey "Cancel" button.

A small illustration of a smartphone displaying a payment interface is visible on the left side of the form.

Interface Number: 16

Interface Name: Director Admin Dashboard

Description: Can access the features.

View Analyze Sale Data Promote Sale Logout

Director Admin Dashboard



Interface Number: 17

Interface Name: View weekly stock report.

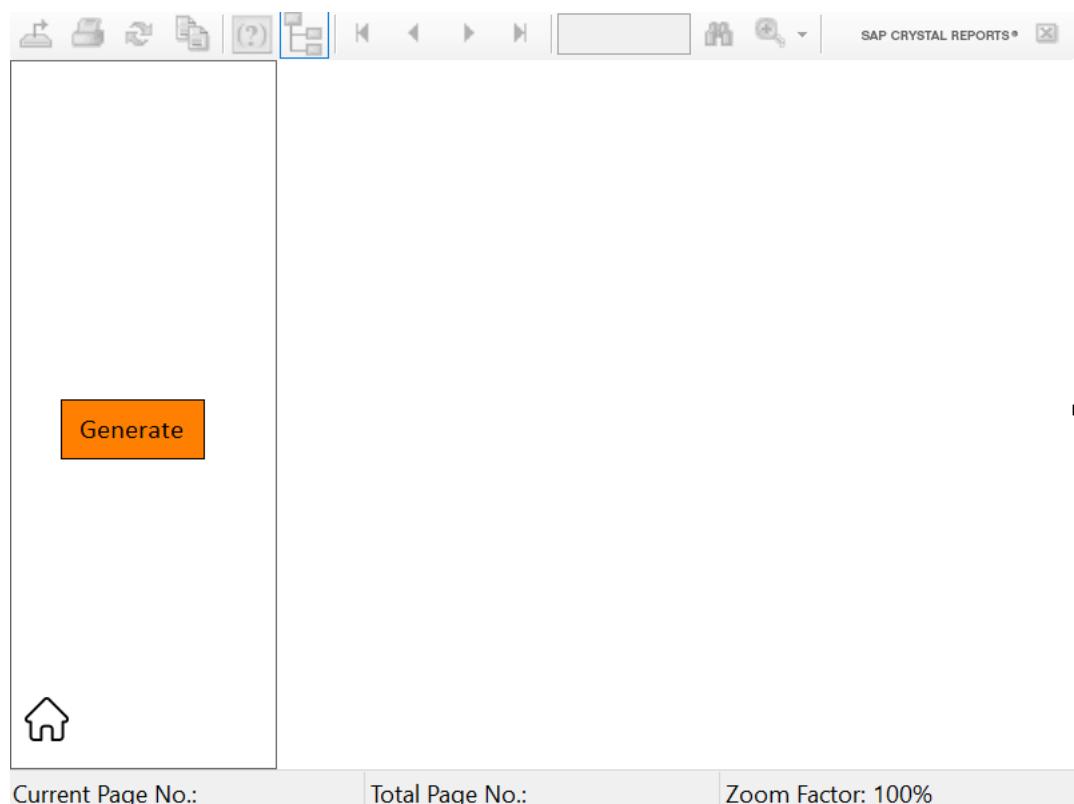
Description: Can access the Report to see the stock details with updated ones.

A screenshot of the SAP Crystal Reports software interface. The top menu bar includes icons for file operations like Open, Save, Print, and a question mark. Below the menu is a toolbar with icons for zooming, navigating, and report navigation. A large central area is currently empty, with a prominent orange "Generate" button at the bottom left. At the very bottom of the screen, there is a footer bar with three items: "Current Page No.", "Total Page No.", and "Zoom Factor: 100%".

Interface Number: 18

Interface Name: View monthly sale report.

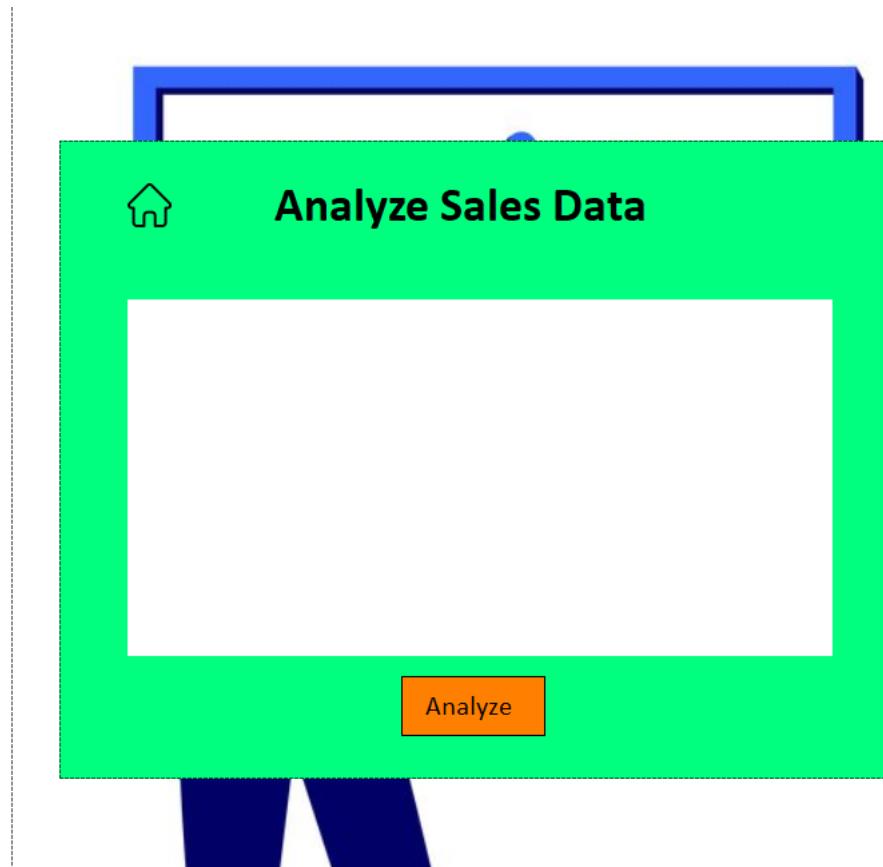
Description: Can access the Report to see the sale details with updated ones.



Interface Number: 19

Interface Name: Analyze Sale Data

Description: Can view all the sales that happened in the company.



Interface Number: 20

Interface Name: Promote Sale

Description: advertising sale to the customer and send it back to the sales representative for create a sale based on this and provide the output of sale to the customers.



SALE

Promote Sale

Sale Id	Sale End Date
<input type="text" value="Enter Sale Id"/>	<input type="text" value="Sunday , September"/>
Product Id	Price
<input type="text" value="Enter Product"/>	<input type="text" value="Enter Price"/>
Product Name	Discount
<input type="text" value="Enter Product"/>	<input type="text" value="Enter Discount"/>
Sale Start Date	<input type="button" value="Search"/>
<input type="text" value="Sunday , September 15, "/>	<input type="button" value="Promote"/>

Interface Number: 21

Interface Name: Human Resource Dashboard

Description: Can access all the features.

Post Job View Add Deduction Monitor Employee Schedule Employee Interview Generate Employee Report

HR Manager Dashboard



Interface Number: 22

Interface Name: View Post Job

Description: Can have an overview of posted jobs details.

View Account

Post Job Id

Interface Number: 23

Interface Name: Add Leave Request

Description: Employees ask for a Leave and then HR Manager can add a Leave Request based on the Employee asked.



<p>Leave Request Id</p> <input type="text" value="Enter Leave Id"/> Leave End Date 	<p>Leave End Date</p> <input type="text" value="Sunday , September 15, 2024"/> Leave Type
<p>Employee Id</p> <input type="text" value="Enter Employee Id"/> Employee Type	<p>Leave Type</p> <input type="text"/> Reason
<p>First Name</p> <input type="text" value="Enter First Name"/> Add 	<p>Reason</p> <input type="text" value="Enter Reason"/>
<p>Last Name</p> <input type="text" value="Enter Last Name"/> Clear	<p>Leave Start Date</p> <input type="text" value="Sunday , September 15, 2024"/> Request Leave

Interface Number: 24

Interface Name: Add Retirement Plan

Description: Can add a retirement plan for an employee who intends to be retired in the future.



Retirement Plan

Retirement Id <input type="text" value="Enter Retirement Id"/>	Retire Type <input type="text"/>
Employee Id <input type="text" value="Enter Employee Id"/>	Date Joined <input type="text" value="Tuesday, July 16, 2024"/>
First Name <input type="text" value="Enter First Name"/>	Expected Date <input type="text" value="Tuesday, July 16, 2024"/>
Last Name <input type="text" value="Enter Last Name"/>	Contribution <input type="text"/>
Position <input type="text" value="Enter Position"/>	Retire <input type="button" value="Retire"/>

Interface Number: 25

Interface Name: Add Health Insurance

Description: Can add health insurance for an employee who intended to be get health insurance for a reason with the free of charge with its company policy (Composite Amount).

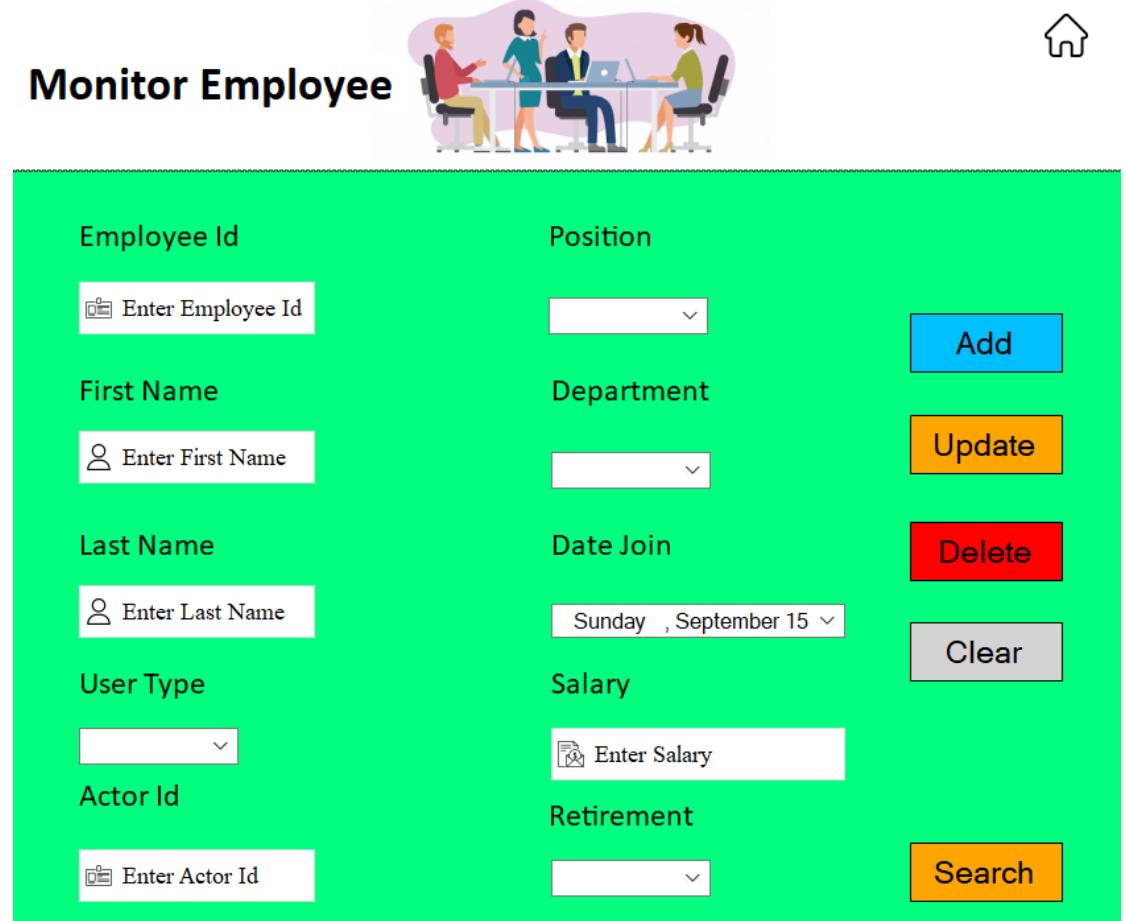
The screenshot shows a user interface titled "Health Insurance". At the top right is a house icon. The main area contains several input fields and buttons:

Health Insurance Id	Description	Deductable Amount
<input type="text"/> Enter HID	<input type="text"/> Enter Health Description	<input type="text"/> Enter Price
Employee Id	Effective Date	Renewal Option
<input type="text"/> Enter EID	<input type="button"/> Tuesday, July 16, 2024	<input type="button"/> Add
First Name	Expiry Date	<input type="button"/> Search
<input type="text"/> Enter First Name	<input type="button"/> Tuesday, July 16, 2024	
Last Name	Premium Amount	
<input type="text"/> Enter Last Name	<input type="text"/> Enter Price	
Type		

Interface Number: 26

Interface Name: Monitor Employee

Description: Can Monitor the employees who are currently employed.



The screenshot shows a user interface titled "Monitor Employee". At the top right is a house icon. Below the title is a small illustration of four people at a desk. The interface has two columns of input fields and buttons:

Employee Id	Position	
<input type="text"/> Enter Employee Id	<input type="text"/>	<button>Add</button>
First Name	Department	<button>Update</button>
<input type="text"/> Enter First Name	<input type="text"/>	<button>Delete</button>
Last Name	Date Join	<button>Clear</button>
<input type="text"/> Enter Last Name	Sunday , September 15	<button>Search</button>
User Type	Salary	
<input type="text"/>	<input type="text"/> Enter Salary	
Actor Id	Retirement	
<input type="text"/> Enter Actor Id	<input type="text"/>	

Interface Number: 27

Interface Name: Schedule Employee Interview

Description: Can schedule an interview with an employee for an important company policy or company activities.



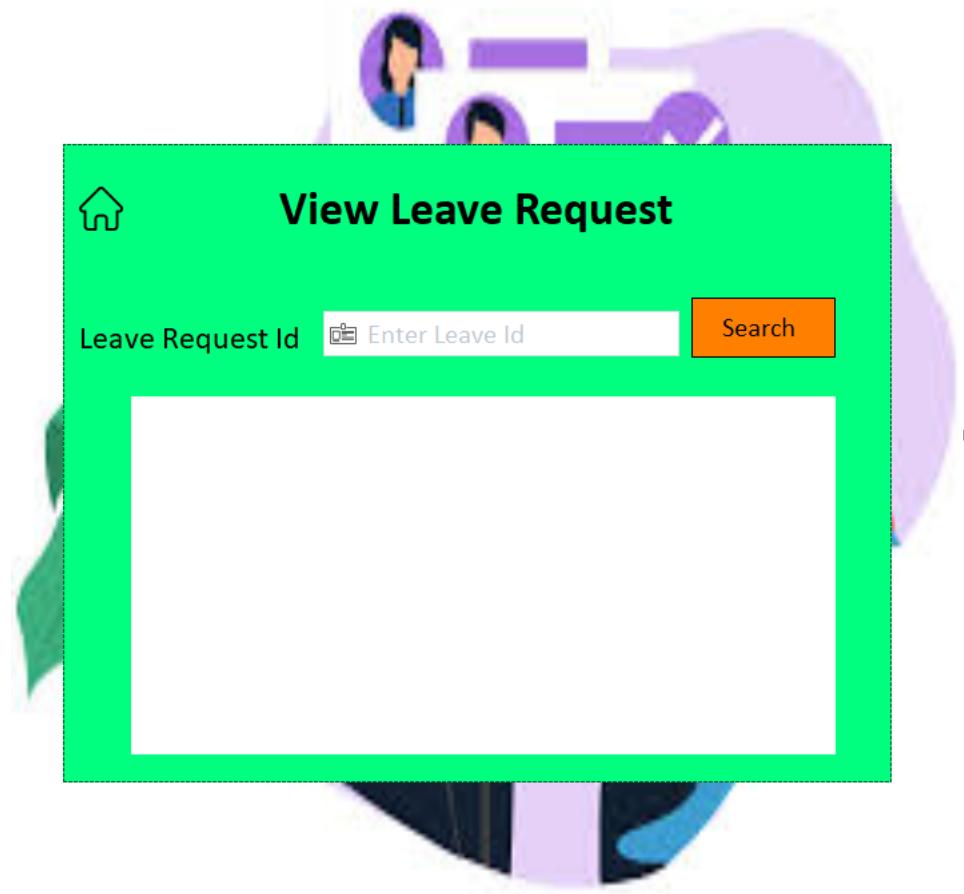
Schedule Interview

Interview Id	Date	Status
<input type="text" value="Enter Interview Id"/>	<input type="text" value="Sunday , September 15, : <input type='button' value='>"/>	<input type="text"/>
Employee Id	End Date	Schedule Email
<input type="text" value="Enter Employee Id"/>	<input type="text" value="Sunday , September 15, : <input type='button' value='>"/>	<input type="text" value="Enter Email"/>
First Name	Location	<input type="button" value="Schedule"/>
<input type="text" value="Enter First Name"/>	<input type="text" value="Enter Location"/>	<input type="button" value="Search"/>
Last Name	Type	<input type="button" value="Search"/>
<input type="text" value="Enter Last Name"/>	<input type="text"/>	

Interface Number: 28

Interface Name: View Leave Request

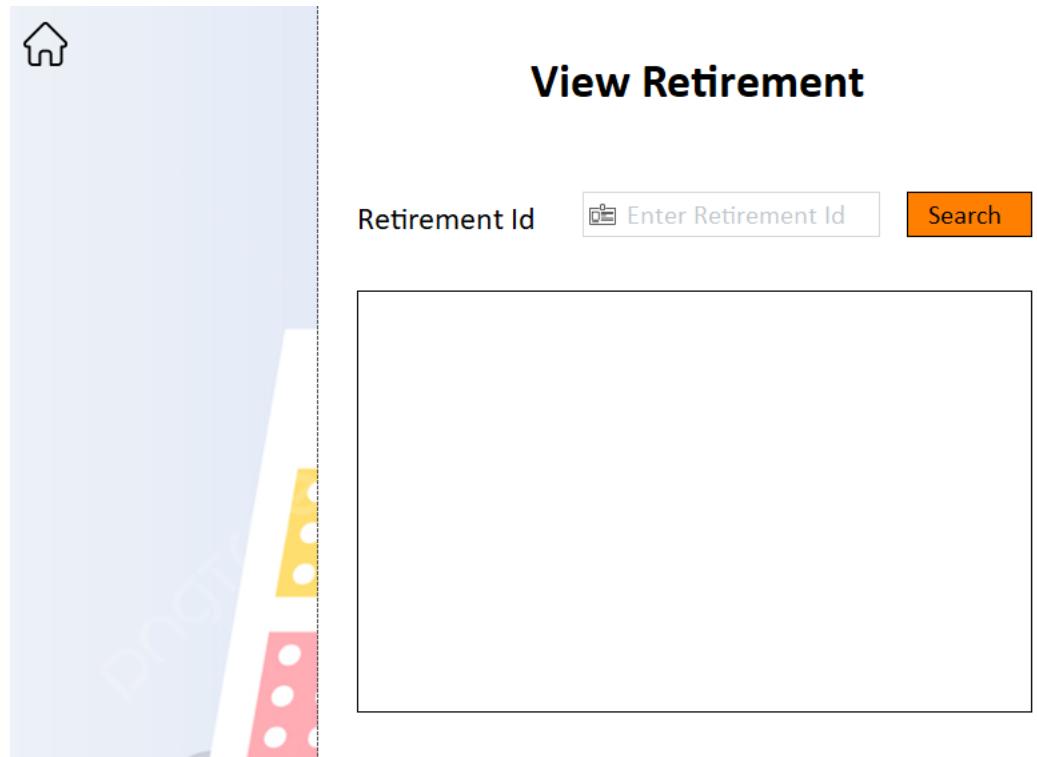
Description: Can have an overview of Leave Requested by employees in the company.



Interface Number: 29

Interface Name: View Retirement Plans

Description: Can have an overview of retirements of employees in the company.



Interface Number: 30

Interface Name: View Health Insurance

Description: Can have an overview of insurance of employees in the company.

The wireframe shows a user interface for viewing health insurance information. At the top left is the title "View Health Insurance". To its right is a circular icon containing a medical clipboard and a plus sign. In the top right corner is a house-shaped icon. Below the title is a green sidebar on the left labeled "Health Id" in white. Next to it is a search input field with a placeholder "Enter Health Id" and a magnifying glass icon. To the right of the input field is an orange "Search" button with white text. The main content area is a large white rectangular box centered on the page.

Interface Number: 31

Interface Name: View Employee Information

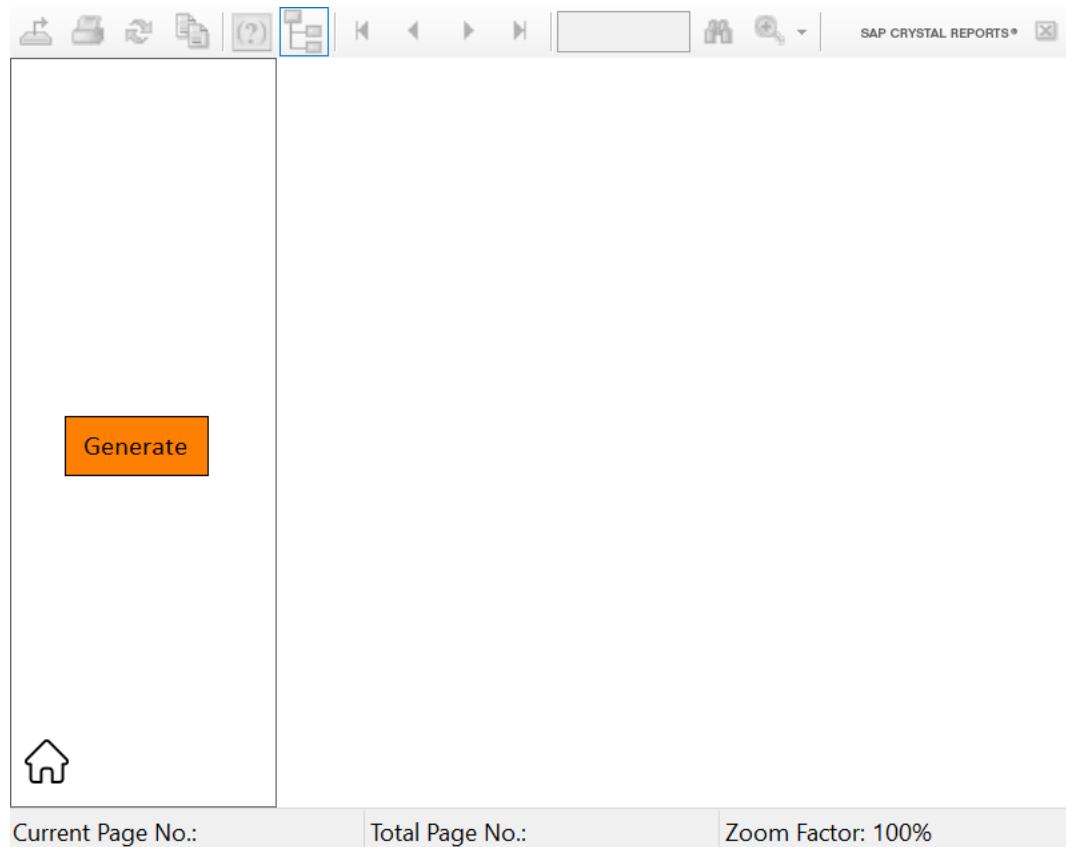
Description: Can have an overview of employees in the company.

The image shows a user interface for viewing employee information. At the top right is a house icon. The main title is "View Employee Information". Below the title is a search bar with the placeholder "Enter Employee Id" and an orange "Search" button. A large white rectangular area is positioned below the search bar.

Interface Number: 32

Interface Name: View Employee Information

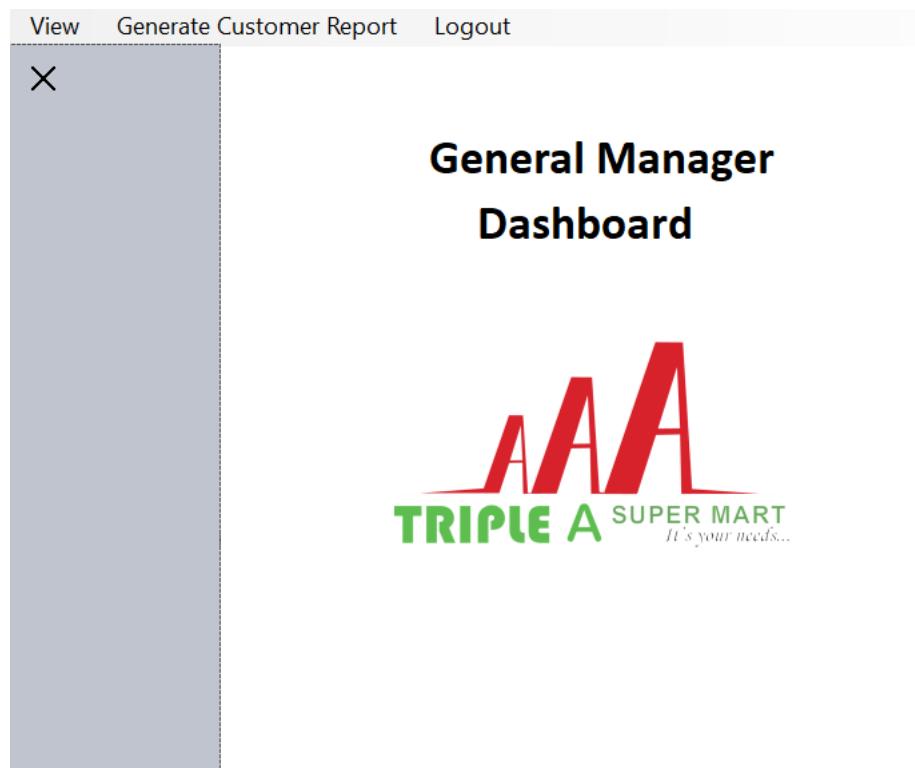
Description: Can have an overview of employees in the company.



Interface Number: 33

Interface Name: General Manager Dashboard

Description: Can access the features in this.

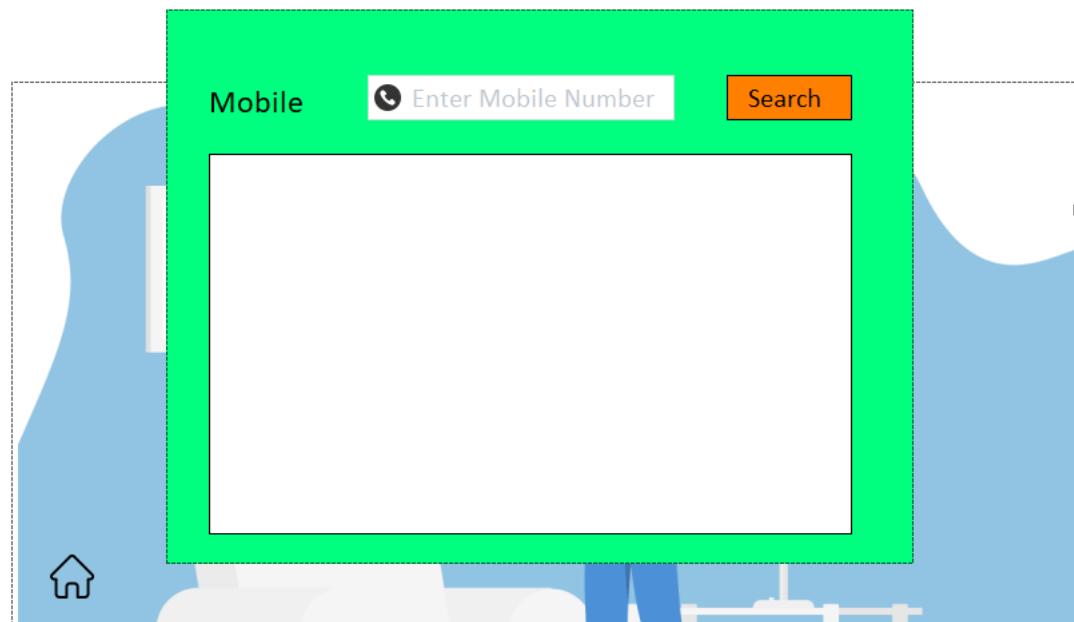


Interface Number: 34

Interface Name: View Normal Customer

Description: Can have an overview of Normal Customers.

View Normal Customer

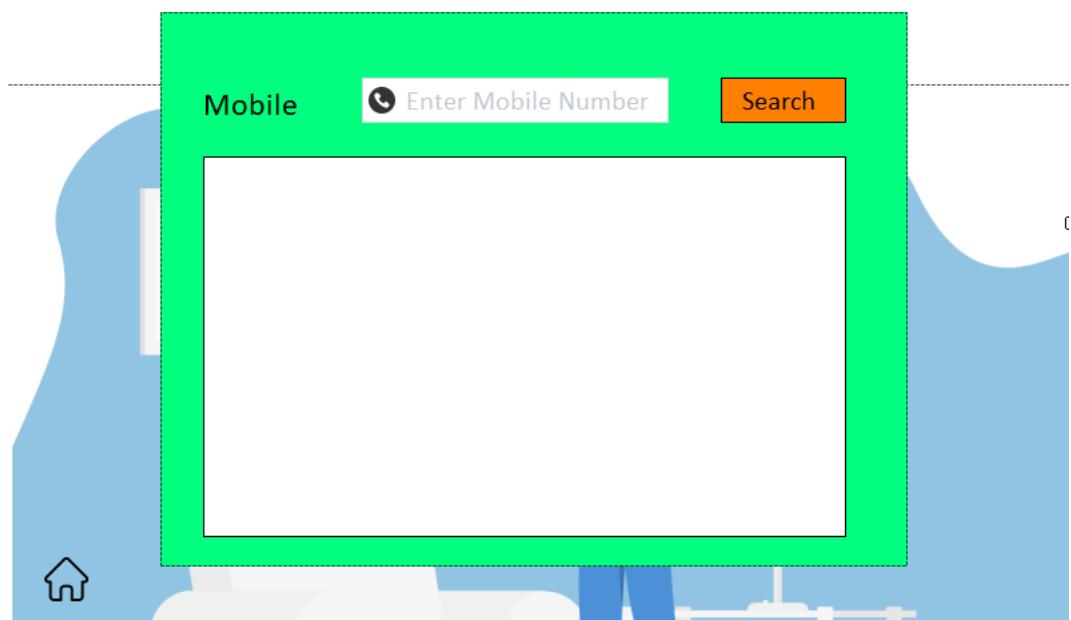


Interface Number: 35

Interface Name: View Loyalty Customer

Description: Can have an overview of Loyalty Customers.

View Loyalty Customer



Interface Number: 36

Interface Name: View Supplier

Description: Can have an overview of Supplier.

View Supplier

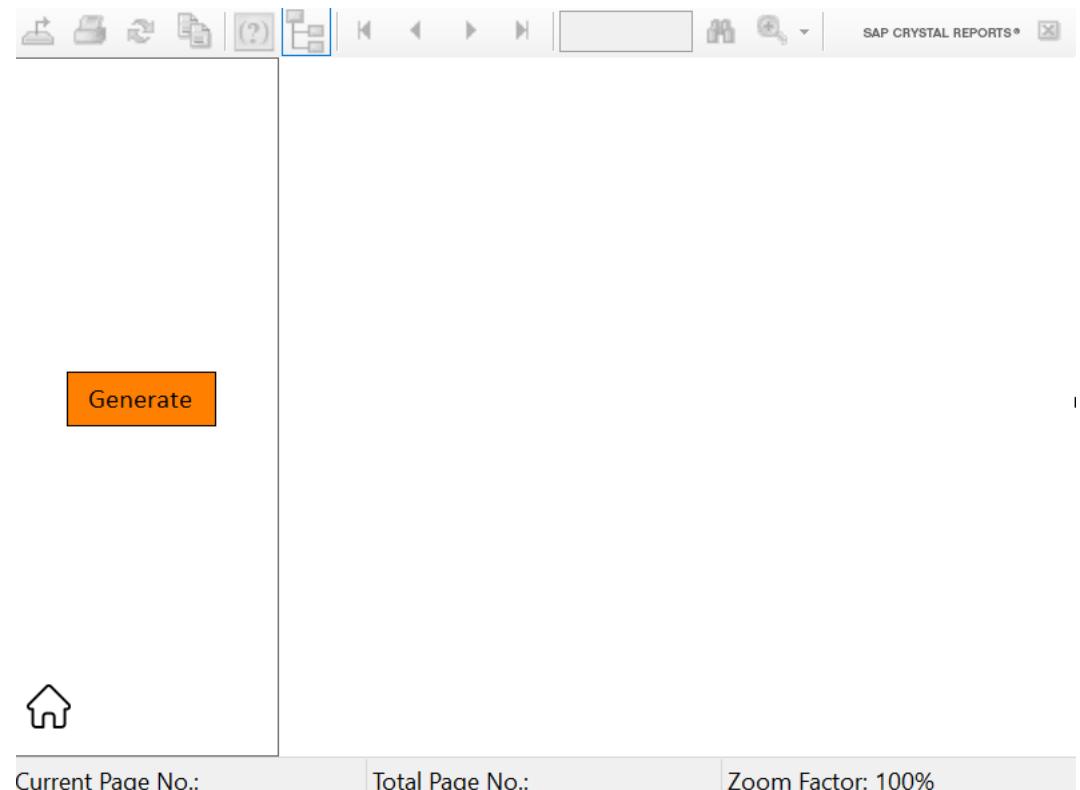
The diagram illustrates a user interface for viewing supplier information. It consists of several distinct sections:

- Header:** A green horizontal bar at the top containing the title "View Supplier".
- Search Functionality:** A form element on the left labeled "Supplier Id" with a small icon, followed by a text input field with the placeholder "Enter Supplier Id". To the right of the input field is an orange button labeled "Search".
- Content Area:** A large, empty white rectangular box intended for displaying the results of the search query.
- Footer:** A grey horizontal bar at the bottom featuring three blue circular icons, likely representing navigation links or buttons.
- Left Sidebar:** A small house icon located on the far left side of the interface.

Interface Number: 37

Interface Name: Generate Customer Report

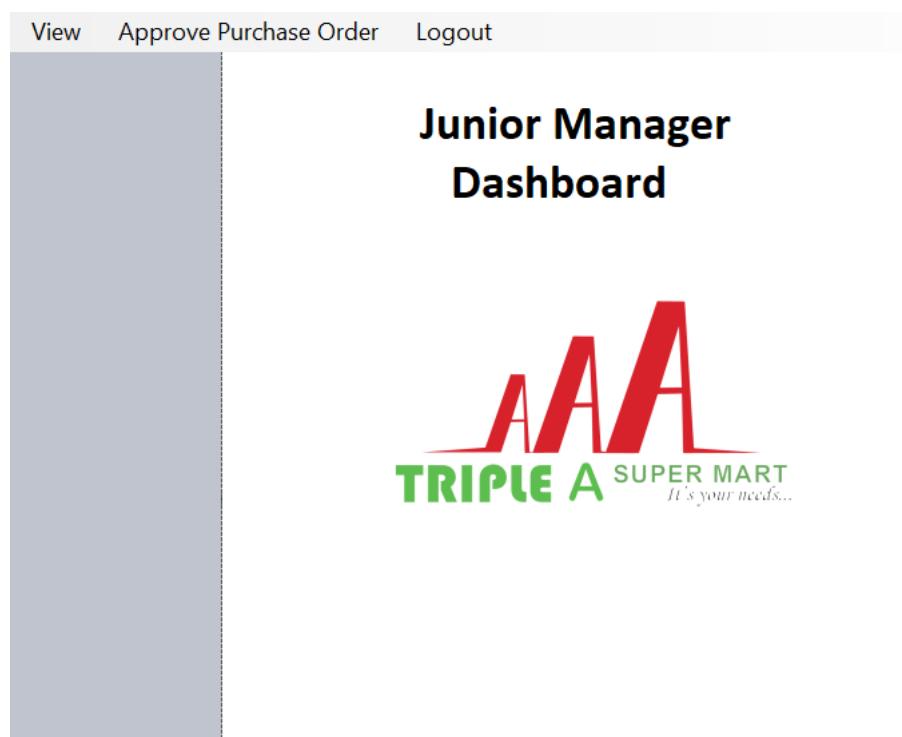
Description: Can have an overview of Customers through well-defined report and can print it anytime.



Interface Number: 38

Interface Name: Junior Manager Dashboard

Description: Can access all the features in this.



Interface Number: 39

Interface Name: Approve Purchase Order

Description: Giving permission for a customer order to the cashier in order to proceed with the order.

Approve Purchase Order



Order Id

Item

Home

Product Id

Quantity

Cancel

Product Name

Total Price

Item Id

Status

Interface Number: 40

Interface Name: Supervisor Dashboard

Description: Can access all the features in this.

[View](#) [Assign Customer Service](#) [Logout](#)

Supervsior Dashboard



Interface Number: 41

Interface Name: Assign Customer Service

Description: Can collaborate with customers with further information for any inquiries.



Customer Service Id

Response Time

Customer Id

Feedback

Customer Name

Mobile

Type

Assign

Search

Interface Number: 42

Interface Name: Digital Marketer Dashboard

Description: Can access all the features.

View Monitor Logout

Digital Marketer Dashboard



Interface Number: 43

Interface Name: Monitor Promotion

Description: Can Monitor Promotion details via email.



The interface features a decorative banner at the top with various icons related to marketing and technology, such as a magnifying glass, gears, a lightbulb, and a mail icon.

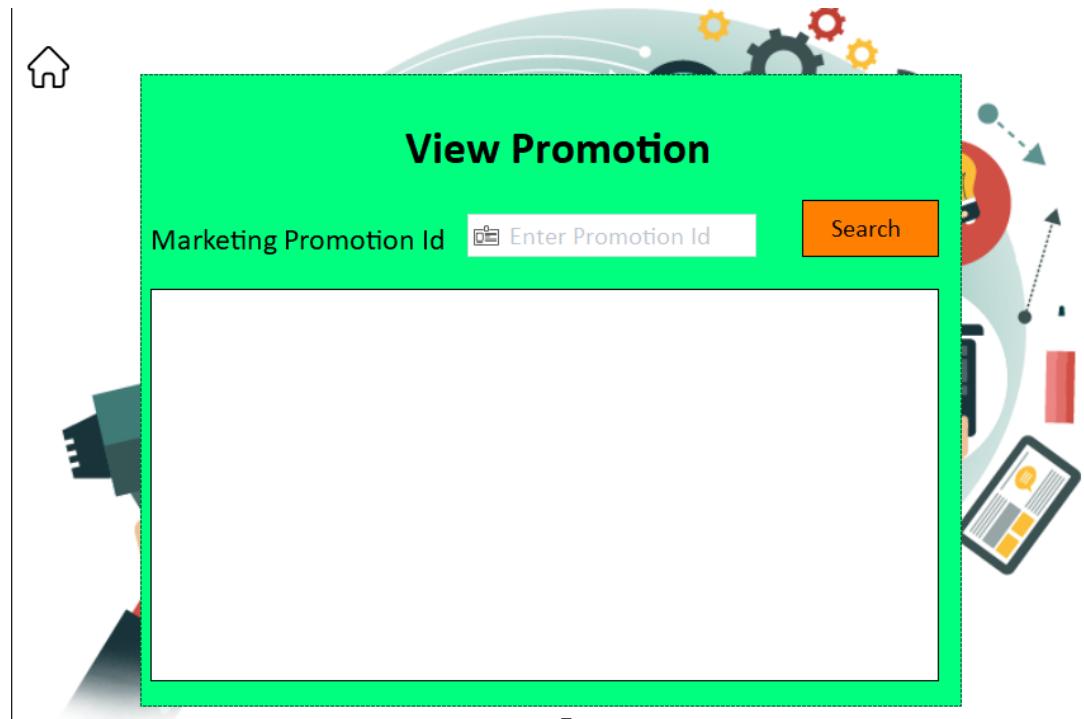
Monitor Promotion Search

Marketing Promotion Id	End Date	Email Marketing
<input type="text" value="Enter Promotion Id"/>	Sunday , September 15	<input type="text" value="Enter Email"/>
Marketing Promotion Name	Discount	Content Marketing
<input type="text" value="Enter Promotion Name"/>	<input type="text" value="Enter Discount"/>	<input type="button" value="▼"/>
Start Date	Offer	In - Store Promotion
Sunday , September 15	<input type="button" value="▼"/>	<input type="button" value="▼"/>
Add Update Delete Clear		Condition
		<input type="text" value="Enter Condition"/>

Interface Number: 44

Interface Name: View Promotion

Description: Can have an overview of promotions that are promoted in this company.



Interface Number: 45

Interface Name: Monitor Marketing

Description: Can Monitor Marketing via mobile to get some details about the company marketing scheme that is applied in order to get customer attractions closer.



Monitor Marketing

Marketing Id

 Search

End Date

 Sunday , September 15

Contact Number

 Enter Contact

Marketing Name

USP

 Add Update

Type

 Delete Clear

Pricing

 FAQs

Start Date

 Enter FAQs

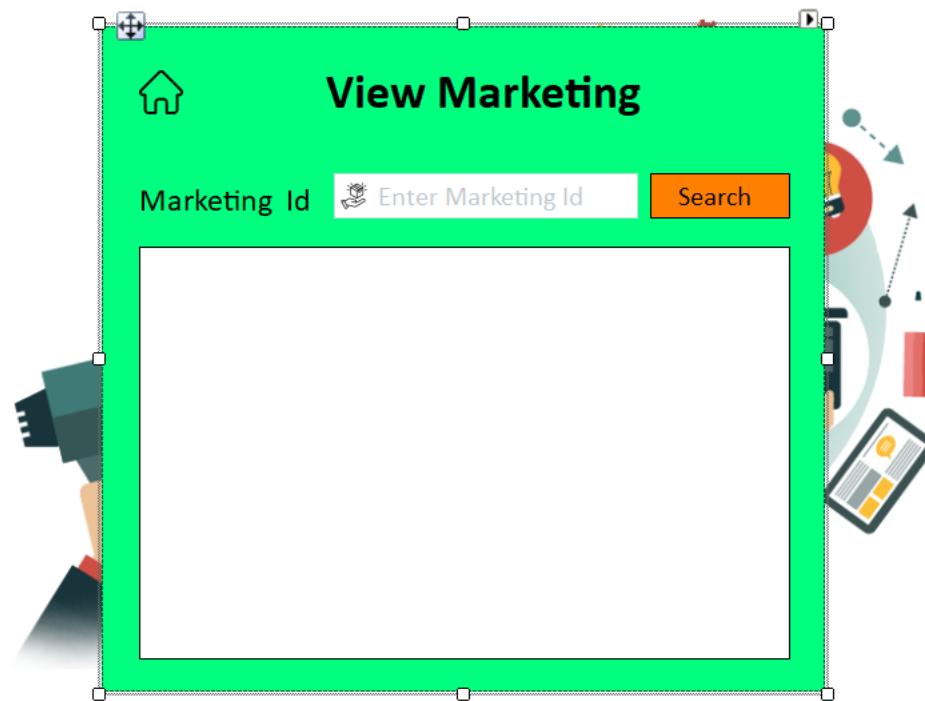
FAQs

 Enter FAQs

Interface Number: 46

Interface Name: View Marketing

Description: Can have an overview of Marketing details to catch up with what marketing years ago or present now.



Interface Number: 47

Interface Name: Accountant Dashboard

Description: Catch up all features that are handled by accountant.

Add Update Profile Logout

Accountant Dashboard



Interface Number: 48

Interface Name: Add Bank Account

Description: Assign to add employees' salary into the bank account at the end of the month.

Add Bank Account



Account Number	Employee Id	Branch
<input type="text" value="Enter Account Number"/>	<input type="text" value="Enter Employee ID"/>	<input type="text" value=""/>
Account Type	Employee Name	Opening Date
<input type="text" value=""/>	<input type="text" value="Enter Employee Name"/>	<input type="text" value="Sunday, Sep 1, 2023"/>
Salary	Bank Name	Account Status
<input type="text" value="Enter Salary"/>	<input type="text" value="Enter Bank Name"/>	<input type="text" value=""/>

Search Add

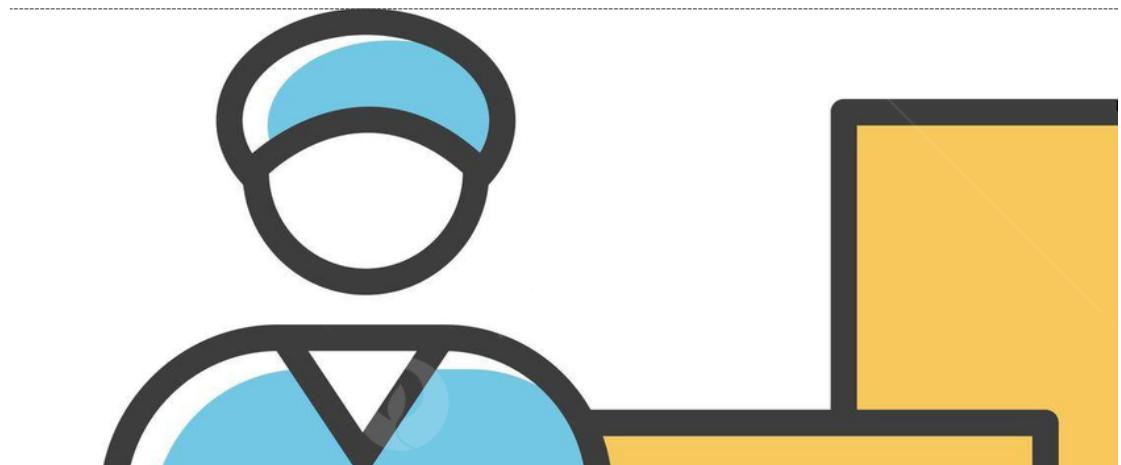
Interface Number: 49

Interface Name: Storekeeper Dashboard

Description: Can access all features that is related to storekeeper.

Place Stock Order View Monitor Stock Generate Stock Report Logout

Storekeeper Dashboard



Interface Number: 50

Interface Name: Place Stock Order

Description: Can place stock orders and make the payment

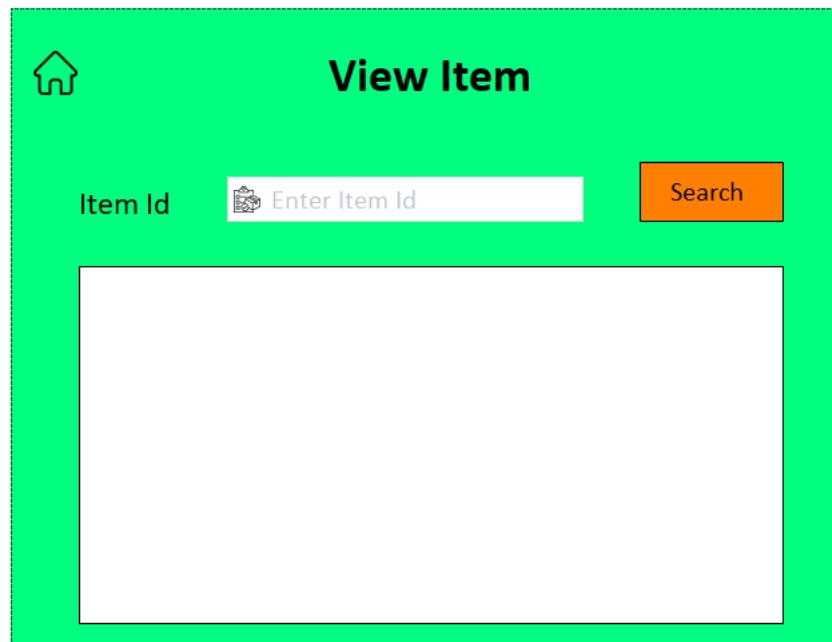
The screenshot shows a form titled "Place Stock Order". On the left, there is a house icon and a purple banner with the text "ORDER NOW". The form has several input fields and buttons:

Stock Id	Location
<input type="text"/> Enter Stock Id	<input type="button" value="Search"/>
Stock Name	Cost
<input type="text"/> Enter Stock N:	<input type="text"/> Enter Cost
Stock Type	Stock Date
<input type="text"/>	<input type="text"/> Sunday , September 15, ▾
Stock Quantity	Supplier Name
<input type="text"/> Enter Quantit:	<input type="button" value="Make"/>
	<input type="text"/> Enter Supplier
	<input type="button" value="Cancel"/>

Interface Number: 51

Interface Name: View Item

Description: Can have an overview of added items.

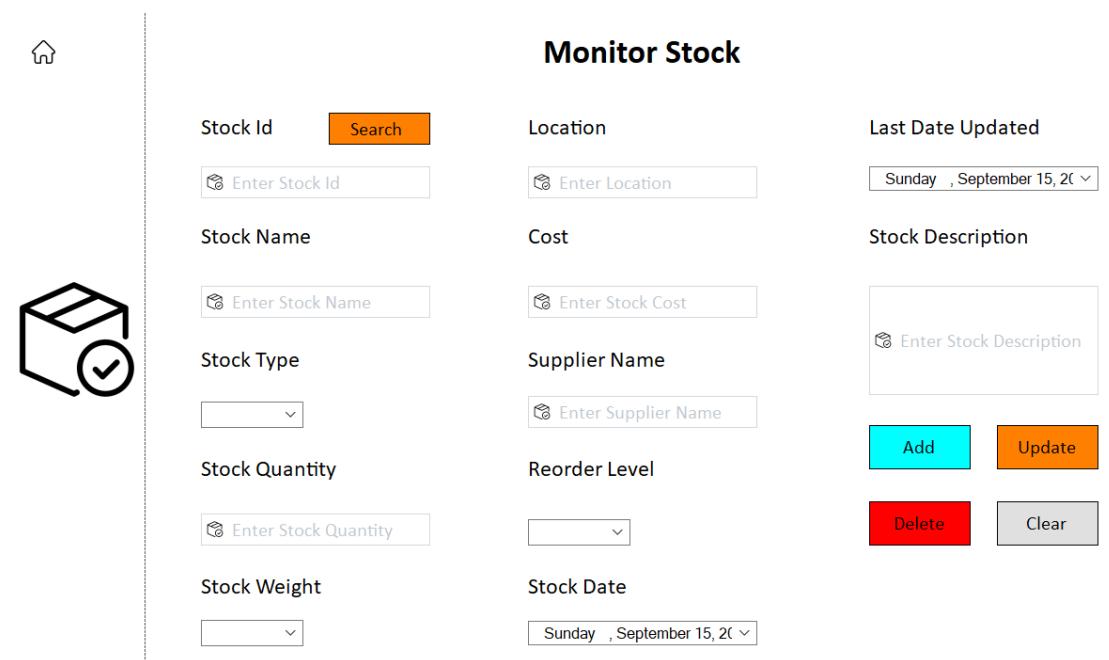


The screenshot shows a user interface titled "View Item". At the top left is a house icon. To its right is the title "View Item" in bold black font. Below the title is a search bar with the placeholder "Enter Item Id" and a magnifying glass icon. To the right of the search bar is an orange "Search" button. Below the search bar is a large, empty white rectangular area, likely a placeholder for item details.

Interface Number: 52

Interface Name: Monitor Stock

Description: Monitoring Stock details and maintaining it.

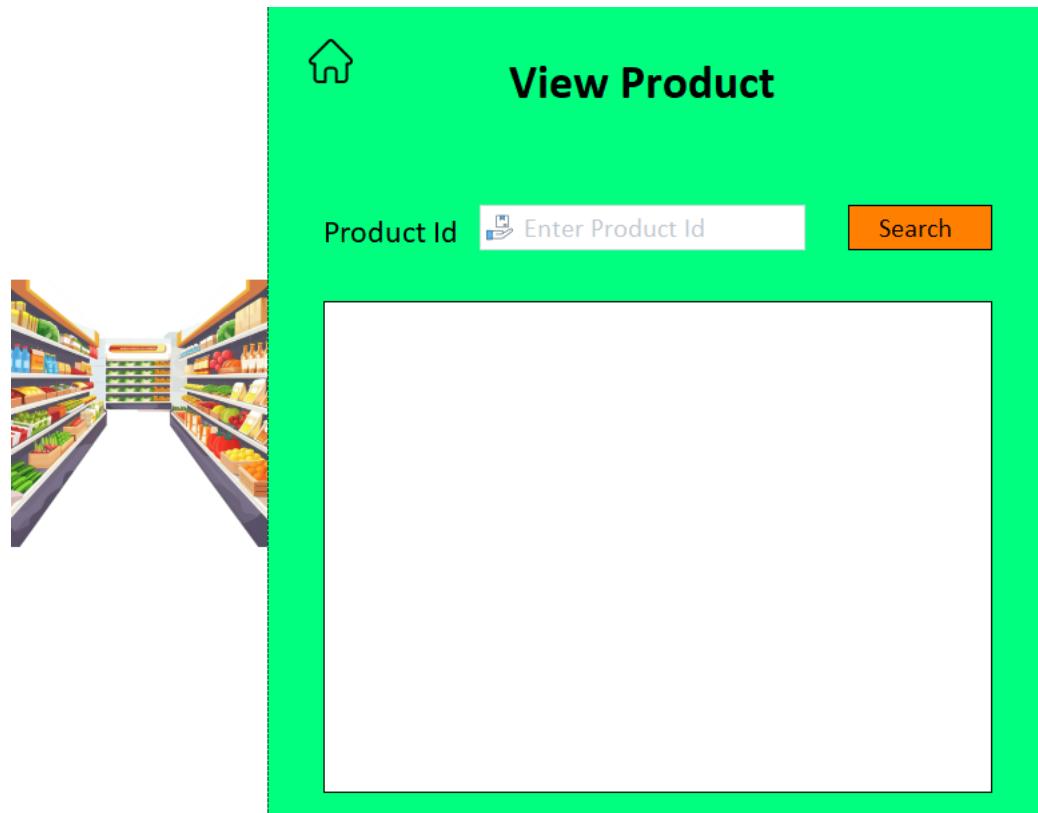


The screenshot shows a user interface titled "Monitor Stock". On the left side, there is a sidebar with a house icon at the top and a box icon with a checkmark below it. The main content area has several input fields and buttons. At the top, there is a "Stock Id" field with a "Search" button to its right. To the right of the search area are "Location" and "Last Date Updated" fields. The "Last Date Updated" field contains the value "Sunday , September 15, 2023". Below these are sections for "Stock Name", "Cost", and "Stock Description", each with an input field. Further down are sections for "Stock Type", "Supplier Name", and "Stock Description", also with input fields. At the bottom right are four buttons: "Add" (blue), "Update" (orange), "Delete" (red), and "Clear" (grey).

Interface Number: 53

Interface Name: View Stock

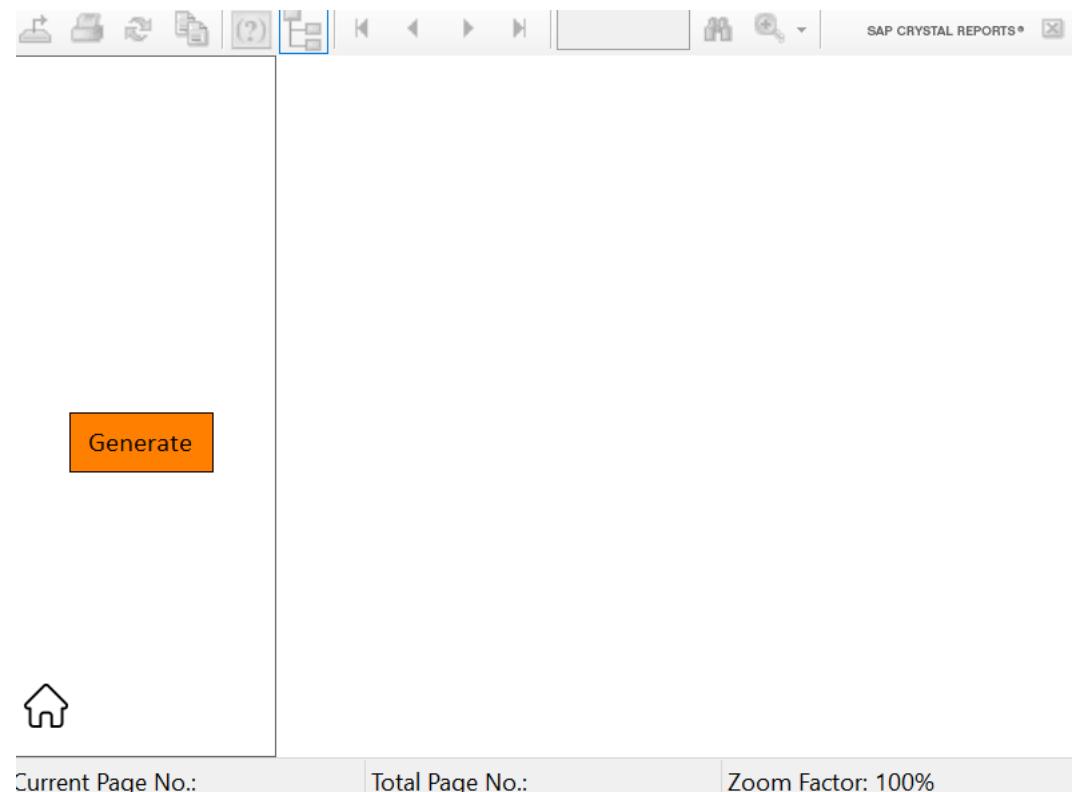
Description: Monitoring Stock details.



Interface Number: 54

Interface Name: Generate Stock Report

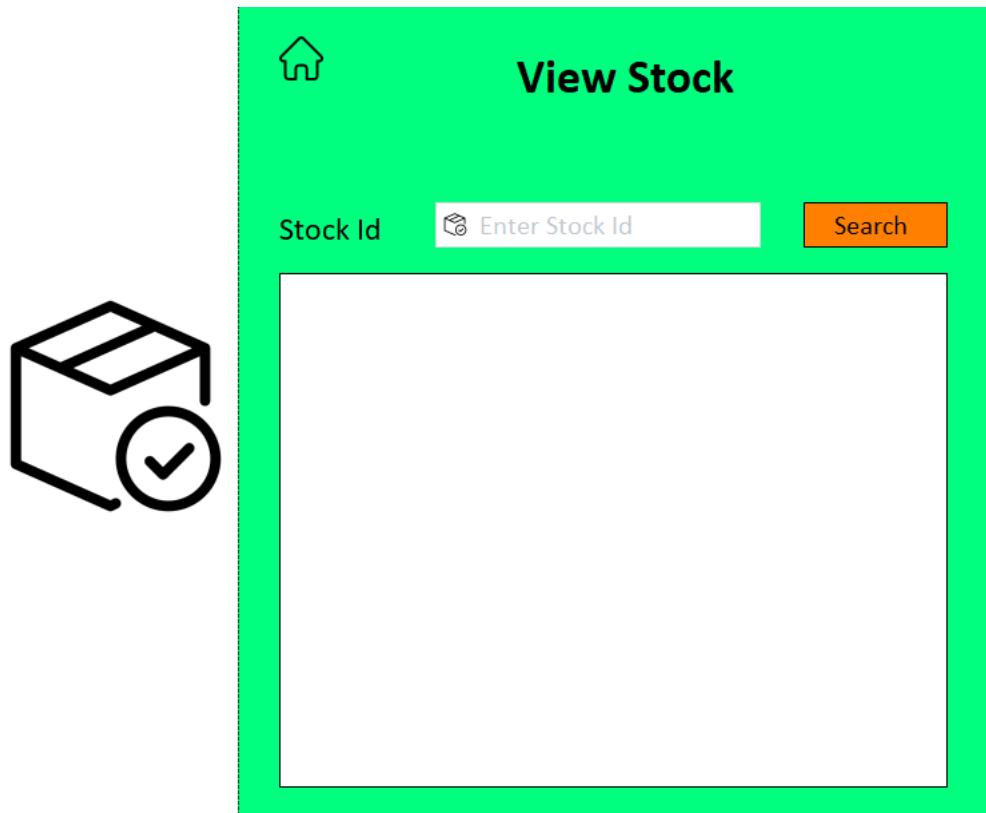
Description: Monitoring Stock details and printing a well-defined report based on stock.



Interface Number: 55

Interface Name: View Stock

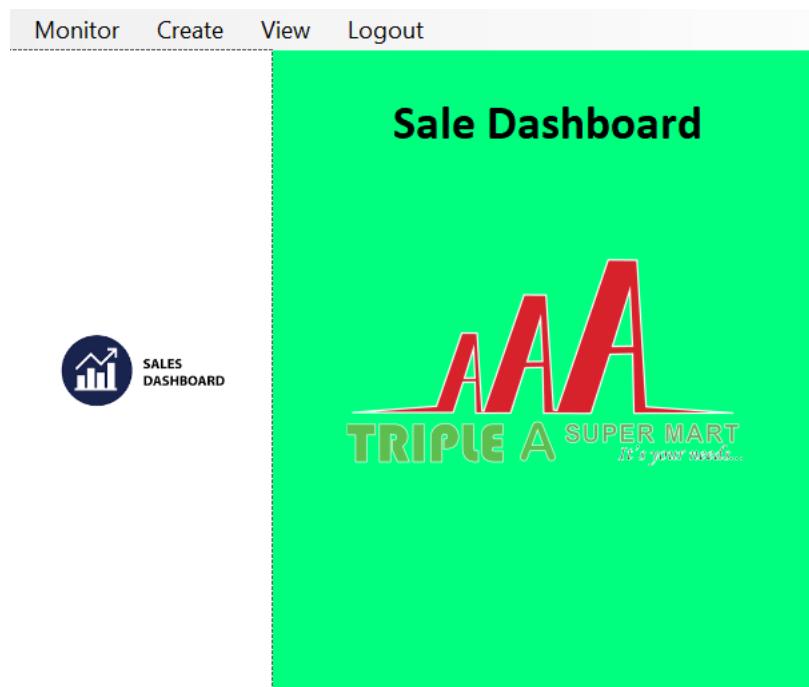
Description: Monitoring Stock details.



Interface Number: 56

Interface Name: Sale Dashboard

Description: Can access it various features from this onwards.



Interface Number: 57

Interface Name: Monitor Delivery

Description: Can monitor the delivery person details in future.



The interface features a header with the text "Monitor Delivery" and "FAST DELIVERY" next to a truck icon. Below the header is a green form area with four input fields: "Delivery Id", "Delivery Name", "Contact Number", and "Delivery Address". To the right of each field is a dropdown menu. At the bottom right are four buttons: "Add" (blue), "Update" (orange), "Delete" (red), and "Clear" (grey).

Delivery Id	Delivery Type
<input type="text" value="Enter Delivery Id"/>	<input type="button" value="▼"/>

Delivery Name	Available Status
<input type="text" value="Enter Delivery Name"/>	<input type="button" value="▼"/>

Contact Number	Add	Update
<input type="text" value="Enter Delivery Conta"/>	<input type="button" value="Add"/>	<input type="button" value="Update"/>

Delivery Address	Delete	Clear
<input type="text" value="Enter Delivery Addre"/>	<input type="button" value="Delete"/>	<input type="button" value="Clear"/>

Interface Number: 58

Interface Name: Monitor Supplier

Description: Can access the supplier details in order some stocks in future if the stocks were finished so that they can monitor some details to keep up with supplier who supplies goods to this supermarket.

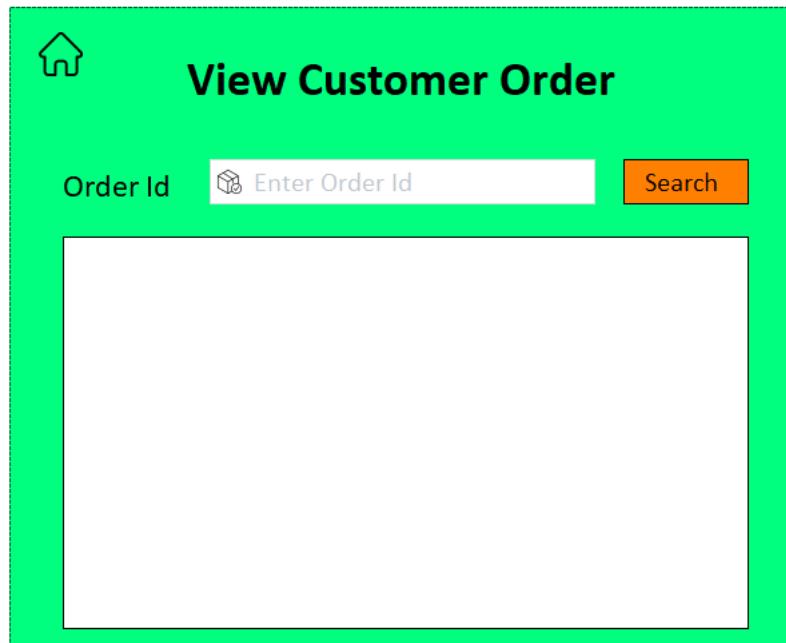
The screenshot shows a user interface titled "Monitor Supplier". At the top right is a house icon. Below the title is a decorative illustration of two people in a warehouse setting with a truck and boxes. The main area contains several input fields and buttons:

Field	Type	Value/Action
Supplier Id	Text Input	<input type="text"/> Enter Supplier Id
Product Type	Text Input	<input type="text"/>
Add	Button	<button>Add</button>
Supplier Name	Text Input	<input type="text"/> Enter Supplier Name
Delivery Schedule	Text Input	<input type="text"/> Tuesday , September 24
Update	Button	<button>Update</button>
Mobile	Text Input	<input type="text"/> Enter Supplier Conta
Pay Term	Text Input	<input type="text"/> Enter Payment Term
Delete	Button	<button>Delete</button>
Company	Text Input	<input type="text"/> Enter Supplier Comp
Comment	Text Input	<input type="text"/> Enter Comment
Clear	Button	<button>Clear</button>

Interface Number: 59

Interface Name: View Customer Order

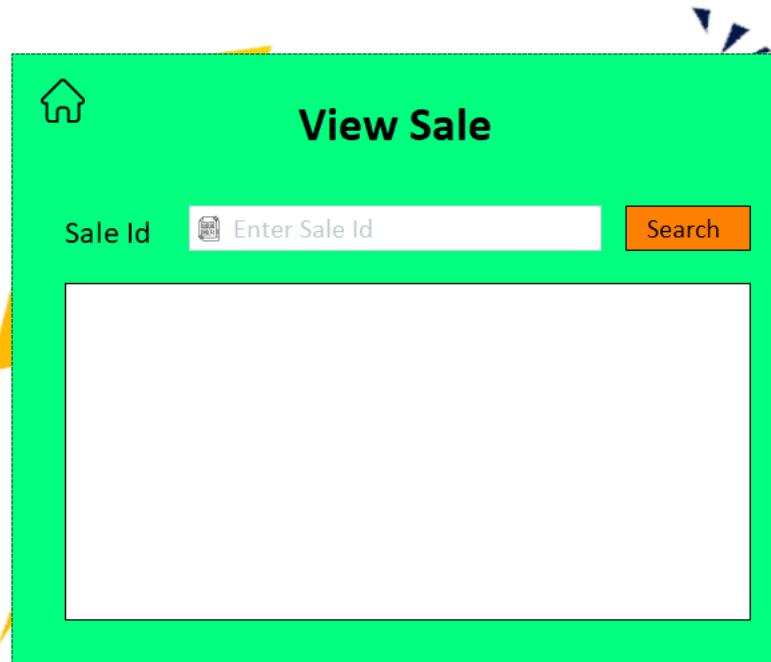
Description: Can view some orders placed by customers.



Interface Number: 60

Interface Name: View Sale

Description: Access some sale details to provide more information on sale that has gross in the supermarket.



Interface Number: 61

Interface Name: Monitor Product

Description: Monitor Products details in order to enhance its capability which is available or not.

The image shows a mobile application interface titled "Monitor Product". On the left, there is a vertical sidebar with a house icon at the top, followed by a large circle containing the letters "PM". A person's arm and torso are visible, holding a smartphone that displays the main content of the app. The main content area has a light gray background. At the top right, the title "Monitor Product" is displayed in bold black font. Below the title, there are two rows of input fields. The first row contains "Product Id" and "Description", each with an input field and a placeholder icon. The second row contains "Product Name" and "Price", also with input fields and placeholder icons. In the third row, there is a "Category" field with a dropdown arrow, followed by four action buttons: "Add" (blue), "Update" (orange), "Delete" (red), and "Clear" (gray). In the fourth row, there is a "Quantity" field with an input field and a placeholder icon, followed by a "Search" button (orange). The bottom right corner of the screen shows a small portion of the phone's status bar.

Product Id	Description
<input type="text"/> Enter Product Id	<input type="text"/> Enter Description
Product Name	Price
<input type="text"/> Enter Product Nam	<input type="text"/> Enter Price
Category	Add Update
<input type="button"/>	<input type="button"/> <input type="button"/>
Quantity	Delete Clear
<input type="text"/> Enter Quantity	<input type="button"/> Search

Interface Number: 62

Interface Name: Create Sale

Description: In order to keep the sales what is going on we can create a sale transaction to predict how much sale has been gross in supermarket.



Create Sale

Sale Id	Quantity	Discount
<input type="text" value="Enter Sale Id"/>	<input type="text" value="Enter Quantity"/>	<input type="text" value="Enter Discount"/> <input type="button" value="Create"/>
Product Id	Sale Start Date	Pay Method
<input type="text" value="Enter Product Id"/>	Tuesday , September 24, ▾	▼
Product Name	Sale End Date	Customer Mobile
<input type="text" value="Enter Product Name"/>	Tuesday , September 24, ▾	<input type="text" value="Enter Mobile"/>
Price	Price Calculate	Customer Name
<input type="text" value="Enter Price"/>	<input type="text" value="Enter Total Price"/>	<input type="text" value="Enter Customer Name"/>

Interface Number: 63

Interface Name: Monitor Item

Description: Monitor Item details in order to enhance its capability to decide which is it available or not.



Monitor Item

Item Id	<input type="button" value="Search"/>	Quantity	Manufature Date	<input type="button" value="Add"/>
<input type="text" value="Enter Item Id"/>	<input type="text" value="Enter Quantity"/>	Tuesday , September 24 ▾	<input type="button" value="Update"/>	
Item Name	Unit Price	Expiry Date	<input type="button" value="Delete"/>	
<input type="text" value="Enter Item Name"/>	<input type="text" value="Enter Unit Price"/>	Tuesday , September 24 ▾	<input type="button" value="Clear"/>	
Description	Total Price	Manufacturer		
<input type="text" value="Enter Item Descriptio"/>	<input type="text" value="Enter Total Price"/>	<input type="text" value="Enter Manufacturer N"/>		
Department	Category			
<input type="text" value=""/>	<input type="text" value=""/>			

Interface Number: 64

Interface Name: Cashier Dashboard

Description: Can access all the features that are required by the Cashier to maintain their level as the role.

Process Refund Place Customer Order Add to Cart Monitor Customer View Generate Payment Report

Cashier Dashboard



Interface Number: 65

Interface Name: Process Refund

Description: In this process if the customer tries to return a product without any damage and restock it again for use.



Process Refund

Refund Id	Product Name	Original Price
<input type="text"/> Enter Refund Id	<input type="text"/> Enter Product Name	<input type="text"/> Enter Original Price
Mobile	Refund Date	Reason
<input type="text"/> Enter Mobile	Tuesday , September 24	<input type="text"/> Enter Reason
Customer Name	Type	Item Condition
<input type="text"/> Enter Customer Name	<input type="button"/>	<input type="button"/>
Product Id	Refund Amount	<input type="button" value="Process"/>
<input type="text"/> Enter Product Id	<input type="text"/> Enter Refund Amo	<input type="button" value="Cancel"/>

Interface Number: 66

Interface Name: Place Customer Order

Description: Cashier can place the customer order, and it will add it to the cart for make payment process.

Place Customer Order

Order Id	Product Name	Unit Price	Payment Method	Stock Name
<input type="text"/> Enter Order Id	<input type="text"/> Enter Product Name	<input type="text"/> Enter Unit Price	<input type="button"/>	<input type="text"/> Enter Stock Name
Mobile	Item Id	Search	Discount	Pay Date
<input type="text"/> Enter Mobile	<input type="text"/> Enter Item Id	<input type="text"/> Enter Discount	<input type="text"/> Tuesday , September 24, 2 ✓	<input type="button"/>
Customer Name	Item Name	Tax	Status	Place
<input type="text"/> Enter Customer Name	<input type="text"/> Enter Item Name	<input type="text"/> Enter Tax	<input type="button"/>	<input type="button"/> Cancel
Product Id	Quantity	Total Amount	Stock Id	
<input type="text"/> Enter Product Id	<input type="text"/> Enter Quantity	<input type="text"/> Enter Total Amount	<input type="text"/> Enter Stock Id	

Interface Number: 67

Interface Name: Add to Cart

Description: After placing order, the cashier can make payment,issue bill and issue receipt to the customer once the payment is confirmed.

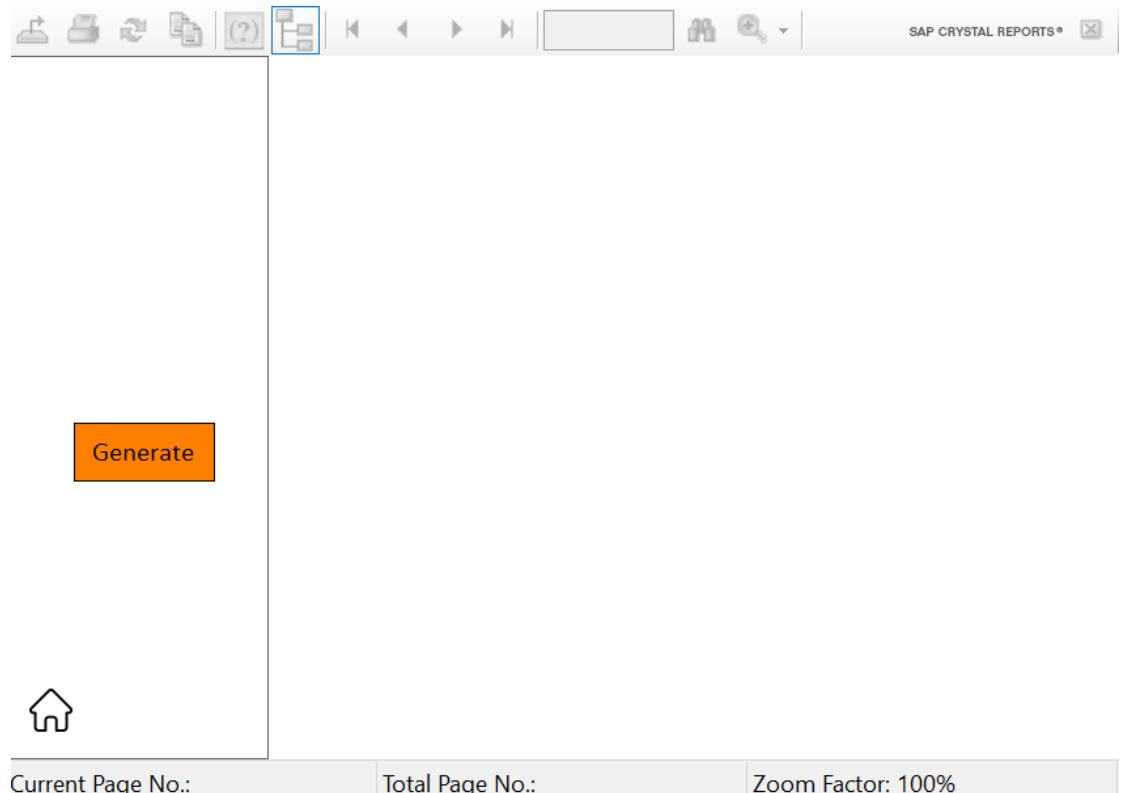


Add Cart Id	Item Name	Discount	Pay Date
<input type="text"/> Enter Cart Id	<input type="text"/> Enter Item Name	<input type="text"/> Enter Discount	Tuesday , September 24, ▾
Customer Name	Quantity	Tax	Pay Method
<input type="text"/> Enter Customer Id	<input type="text"/> Enter Quantity	<input type="text"/> Enter Tax	▾
Product Name	Unit Price	Total Amount	Stock Name
<input type="text"/> Enter Product Id	<input type="text"/> Enter Unit Price	<input type="text"/> Enter Total Amoun	<input type="text"/> Enter Stock Name
<input type="button" value="Make"/>	<input type="button" value="Issue"/>	<input type="button" value="Generate Bill"/>	<input type="text"/> Order Id <input type="text"/> Enter Order Id

Interface Number: 68

Interface Name: Generate Weekly Payment Report

Description: Get a summary of Payments of a customer through a report containing details.



Interface Number: 69

Interface Name: Generate Bill

Description: Get a summary of Payment of each customer through a bill and they get to know the exact amount.

```
-----  
          CUSTOMER BILL  
-----  
Order Details  
-----  
Order ID: 01  
Customer Name: Eric Wilson  
Date: 10/6/2024 12:00:00 AM  
Payment Method:  
-----  
Items Purchased:  
-----  
Item Name      Quantity   Unit Price Total Price  
-----  
Apple Juice    15        $30.50    $457.50  
-----  
Discount: $5.00  
Tax: $0.30  
Grand Total: $435.93  
-----  
Thank you for shopping with us!  
-----
```

Interface Number: 70

Interface Name: Issue Receipt

Description: Once the bill is given the customer will be able to receive receipt for what they purchased as the summary.

Order Receipt

Order ID: O1
Customer Name: Eric Wilson
Product Name: Apple Red Flavour Category
Item Name: Apple Juice
Quantity: 15
Unit Price: 30.5
Discount: 5
Tax: 0.3
Total Price: 435.93
Pay Date: 10/6/2024 12:00:00 AM
Payment Method:
Stock Name: Apple

4.3 Database Design

Table Number: 01

Table Name: UserLogin

Primary Key: userId

Field Name	Data Type	Data Size	Description
userId	int	-	User Unique Identity
user_type	varchar	25	User type
username	varchar	50	Username
Email	varchar	100	Email
user_password	varchar	60	User password
user_confirm_password	varchar	60	User Confirm Password

Table Number: 02

Table Name: Admin

Primary Key: adminId

Field Name	Data Type	Data Size	Description
adminId	int	-	Admin Unique Identity
user_type	varchar	25	User type
username	varchar	50	Username
password	varchar	60	Password
firstname	varchar	50	First Name
lastname	varchar	50	Last Name
dob	Date	-	Date of Birth
gender	varchar	10	Gender
email	varchar	100	Email
adminPhoto	Binary	1000	Admin Photo

Table Number: 03

Table Name: adminProfile

Primary Key: adminId

Field Name	Data Type	Data Size	Description
stockId	varchar	15	Stock Id
stockName	varchar	50	Stock Name
stockType	varchar	25	Stock Type
stockQuantity	Int	-	Quantity
stockWeight	varchar	20	Weight
City	varchar	30	City
Street	varchar	50	Street
Code	Int	-	Code
cost	float	-	Stock cost
SupplierName	varchar	50	Supplier Name
reorderLevel	int	-	Restock level
stockDate	Date	-	Stock Start Date
lastUpdatedDate	Date	-	Updated Date
stockDescription	varchar	100	Description

Table Number: 04

Table Name: Item

Primary Key: itemId.

Field Name	Data Type	Data Size	Description
itemId	varchar	25	Item Id
itemName	varchar	50	Item Name
Description	varchar	100	Item Description
department	varchar	50	Item Department
Quantity	Int	-	Quantity
unitprice	Float	-	Per price
totalprice	Float	-	Total price
Category	varchar	50	Category or types
manufactureDate	Date		Manufactured Date
expiryDate	Date		Ending Date
manufacturer	varchar	50	Manufacturer name

Table Number: 05

Table Name: Job

Primary Key: employeeId

Field Name	Data Type	Data Size	Description
employeeId	varchar	25	Employee Unique
userType	varchar	15	User type
firstName	varchar	30	First name
lastName	varchar	30	Last name
position	varchar	15	Job position
department	varchar	15	Employee Department
DateJoined	Date	-	Date of Joined
Salary	Float	-	Salary
Retirement	Bit	-	Retirement

Table Number: 06

Table Name: Leave

Primary Key: leaveRequestId

Field Name	Data Type	Data Size	Description
leaveRequestId	int	Not null	leave Unique Identity
employeeId	varchar	25	Employee Id
userType	varchar	25	User Type
firstName	varchar	30	First name
lastName	varchar	30	Last name
leaveStartDate	Date	-	Leave Start Date
leaveEndDate	Date	-	Leave End Date
LeaveType	varchar	15	Leave Type
reason	varchar	100	Leave Reason

Table Number: 07

Table Name: RetirementPlan

Primary Key: retirementId

Field Name	Data Type	Data Size	Description
retirementId	varchar	20	Retirement Id
employeeId	varchar	25	Employee Id
firstName	varchar	30	First name
lastName	varchar	30	Last name
position	varchar	15	Job position
retireType	varchar	25	Employee Retirement Type
DateJoined	Date	-	Date of Joined
expectedDate	Date	-	Date of Retire
contribution	varchar	25	Retirement contribution

Table Number: 08

Table Name: HealthInsurance

Primary Key: HealthInsuranceID

Field Name	Data Type	Data Size	Description
HealthInsuranceID	Int	-	Health Insurance Id Identity
employeeId	varchar	25	Employee Id
firstName	varchar	30	First name
lastName	varchar	30	Last name
Type	varchar	25	Job position
Description	varchar	100	Health Insurance Description
EffectiveDate	Date	-	Health Insurance Start Date
PremiumAmount	Float	-	Amount Given
deductibleAmount	Float	-	Amount deductible
RenewalOption	varchar	30	Renewal Option of Health Insurrance

Table Number: 09

Table Name: Employee

Primary Key: employeeId

Field Name	Data Type	Data Size	Description
employeeId	varchar	25	Employee Id
firstName	varchar	30	First name
lastName	varchar	30	Last name
empType	varchar	50	Employee Type
actorId	varchar	25	Employee specific role id
position	varchar	50	Job Position
department	varchar	50	Employee Department
DateJoined	Date	-	Date of Join
Salary	decimal	-	Salary for Employee
Retirement	varchar	3	Retirement Option
supervisorId	varchar	25	Supervisor Id
digitalMarketerId	varchar	25	Digital Marketer Id
accountantId	varchar	25	Accountant Id
storekeeperId	varchar	25	Storekeeper Id
salesRepId	varchar	25	Sale Representative Id
cashierId	varchar	25	Cashier Id

Table Number: 10

Table Name: Interview

Primary Key: InterviewId

Field Name	Data Type	Data Size	Description
InterviewId	int	-	Interview Id Identity
employeeId	varchar	25	Employee Id
firstName	varchar	50	First Name
lastName	varchar	50	Last Name
Date	Date	-	Interview Date
endDate	Date	-	Interview End Date
Location	varchar	100	Interview Location
Type	varchar	50	Employee type
Status	varchar	50	Interview Status
scheduleEmail	varchar	100	Interview via email

Table Number: 11

Table Name: Customer

Primary Key: mobile

Field Name	Data Type	Data Size	Description
customerId	varchar	20	Customer Id
customerName	varchar	50	Customer Name
DoB	Date	-	Date of Birth
Gender	varchar	10	Gender
Email	varchar	100	Customer Email
City	varchar	30	City
Street	varchar	30	Street
PostalCode	varchar	30	Postal Code for address
mobile	varchar	10	Mobile Number
Type	varchar	20	Customer Type
MemberStatus	varchar	10	Loyalty or Normal Status

Table Number: 12

Table Name: Supplier

Primary Key: supplierId

Field Name	Data Type	Data Size	Description
supplierId	varchar	20	Supplier Id
supplierName	varchar	50	Supplier Name
mobile	varchar	10	Supplier Mobile
Company	varchar	100	Company
productType	varchar	50	Type of Product
deliverySchedule	Date	-	Delivery Schedule
payTerm	varchar	50	Payment Term
comment	String	Max	Comment

Table Number: 13

Table Name: MarketingPromotion

Primary Key: markPromotion_Id

Field Name	Data Type	Data Size	Description
markPromotion_Id	varchar	25	Promotion Id
markertPromotionName	varchar	50	Promotion Name
startDate	Date	-	Date of Promotion
endDate	Date	-	Ending Date for Promotion
discount	Float	-	Discount
offer	varchar	50	Offer types
emailMarketing	varchar	100	Email
contentMarketing	varchar	50	Content of Promotion
inStorePromotion	varchar	50	Promotion types
condition	varchar	100	Condition or rules

Table Number: 14

Table Name: Marketing

Primary Key: marketingId

Field Name	Data Type	Data Size	Description
marketingId	varchar	25	Marketing Id
marketingName	varchar	50	Marketing Name
startDate	DateTime	-	Date of Marketing
endDate	DateTime	-	Ending Date for Marketing
type	varchar	30	Marketing Type
USP	varchar	100	Unique Selling Product rules
pricing	Float	-	Marketing set price
FAQs	varchar	max	Frequently asked questions
contactNumber	varchar	10	Mobile Number of customers

Table Number: 15

Table Name: Account

Primary Key: accountNumber

Field Name	Data Type	Data Size	Description
accountNumber	varchar	50	Bank account number
accountType	varchar	50	Types of Account
Salary	Float	-	Salary of Employee
employeeId	varchar	25	Employee Id
employeeName	varchar	50	Employee Name with first and last name
bankName	varchar	50	Bank Name
branch	varchar	50	Types of Branches
openingDate	Date	-	Open Date
accountStatus	varchar	50	Status

Table Number: 16

Table Name: Stock

Primary Key: stockId

Field Name	Data Type	Data Size	Description
stockId	varchar	15	Stock Id
stockName	varchar	50	Stock Name
stockType	varchar	25	Types of Stock
stockQuantity	int	-	Quantity
stockWeight	varchar	20	Weight
Location	varchar	100	Stock Location
cost	Float	-	Stock Cost
SupplierName	varchar	50	Supplier Name
reorderLevel	int	-	Restock level
stockDate	Date	-	Stock Date
lastUpdatedDate	Date	-	Last Date
stockDescription	varchar	100	Stock Description

Table Number: 17

Table Name: Product

Primary Key: productId

Field Name	Data Type	Data Size	Description
productId	varchar	25	Product Id
productName	varchar	50	Product Name
category	varchar	30	Category of Product
Quantity	int	-	Quantity
Description	varchar	100	Product Information
price	float	-	Product unit price

Table Number: 18

Table Name: CustomerService

Primary Key: customerServiceId

Field Name	Data Type	Data Size	Description
customerServiceId	Int	-	Customer Service Id
customerId	varchar	20	Customer Id
customerName	varchar	50	Customer Name
Type	varchar	25	Customer Type
responseTime	DateTime	-	Response Time
feedback	varchar	100	Feedback
mobile	varchar	10	Mobile Number

Table Number: 19

Table Name: Delivery

Primary Key: DeliveryId

Field Name	Data Type	Data Size	Description
DeliveryId	varchar	20	Delivery Person Id
deliveryName	varchar	50	Delivery Person Name
contactNumber	varchar	10	Mobile Number
deliveryAddress	varchar	100	Delivery Address
deliveryType	varchar	20	Type of Delivery Person
availableStatus	varchar	10	Available

Table Number: 20

Table Name: Sale

Primary Key: saleId

Field Name	Data Type	Data Size	Description
saleId	int	-	Sale Id
productId	varchar	25	Product Id
productName	varchar	50	Product Name
price	float	-	Unit Price
Quantity	int	-	Quantity
saleStartDate	Date	-	Sale Start Date
saleEndDate	Date	-	Sale Ending Date
priceCalculate	float	-	Total Price
discount	float	-	Discount
payMethod	varchar	30	Payment Method
mobile	varchar	10	Customer Mobile
customerName	varchar	50	Customer Name

Table Number: 21

Table Name: Refund

Primary Key: refundId

Field Name	Data Type	Data Size	Description
refundId	varchar	20	Refund Id
mobile	varchar	10	Customer Mobile
customerName	varchar	50	Customer Name
productId	varchar	25	Product Id
productName	varchar	50	Product Name
refundDate	Date	-	Refund Date
Type	varchar	30	Type of Refund
refundAmount	float	-	Refund Amount
originalPrice	float	-	Product Price
reason	varchar	100	Reason for refund
itemCondition	varchar	50	Product Condition

Table Number: 22

Table Name: CustomerOrder

Primary Key: orderId

Field Name	Data Type	Data Size	Description
orderId	varchar	20	Order Id
mobile	varchar	10	Customer Mobile
customerName	varchar	50	Customer Name
productId	varchar	25	Product Id
productName	varchar	50	Product Name
itemId	varchar	25	Item Id
itemName	varchar	50	Item Name
Quantity	int	-	Quantity
unitprice	float	-	Unit Price
discount	float	-	Discount
tax	float	-	Tax
totalprice	float	-	Total Price
paymentMethod	varchar	50	Payment Method
payDate	Date	-	Payment Date
status	varchar	10	Payment Status
stockId	varchar	15	Stock Id
stockName	varchar	50	Stock Name

Table Number: 23

Table Name: Cart

Primary Key: addCartId

Field Name	Data Type	Data Size	Description
addCartId	Int	-	Cart Id
customerName	varchar	50	Customer Name
productName	varchar	50	Product Name
itemName	varchar	50	Item Name
Quantity	Int	-	Item Quantity
unitprice	float	-	Unit Price
discount	float	-	Discount
tax	float	-	Tax
totalprice	float	-	Total Price
payDate	Date	-	Payment Date
paymentMethod	varchar	50	Payment Method
stockName	varchar	50	Stock Price
orderId	varchar	50	Order Id

Table Number: 24

Table Name: Supervisor

Primary Key: supervisorId

Field Name	Data Type	Data Size	Description
supervisorId	varchar	25	Supervisor Id
employeeId	varchar	25	Employee Id

Table Number: 25

Table Name: DigitalMarketer

Primary Key: digitalMarketerId

Field Name	Data Type	Data Size	Description
digitalMarketerId	varchar	25	Digital Marketer Id
employeeId	varchar	25	Employee Id

Table Number: 26

Table Name: Accountant

Primary Key: accountantId

Field Name	Data Type	Data Size	Description
accountantId	varchar	25	Accountant Id
employeeId	varchar	25	Employee Id

Table Number: 27

Table Name: Storekeeper

Primary Key: storekeeperId

Field Name	Data Type	Data Size	Description
storekeeperId	varchar	25	Storekeeper Id
employeeId	varchar	25	Employee Id

Table Number: 28

Table Name: SaleRepresentative

Primary Key: saleRepId

Field Name	Data Type	Data Size	Description
saleRepId	varchar	25	Sale Representative Id
employeeId	varchar	25	Employee Id

Table Number: 29

Table Name: Cashier

Primary Key: cashierId

Field Name	Data Type	Data Size	Description
cashierId	varchar	25	Cashier Id
employeeId	varchar	25	Employee Id

4.4 Report Layout

Report Layout Number: 01

Report Layout Name: Weekly Stock Report

Description: Can oversee the stock which is available and restock during the period of 7 days.



Tripple A Supermart

Weekly Stock Report

2024/09/23 to 2024/09/29

Stock Id	Stock Name	Stock Type	Stock Quantity	Stock Weight	Cost	Recorder Level	Stock Date
S001	Apple	Fruit	25	5kg	30.50	50	9/29/2024
S002	Bread	Bakery	0	2kg	20.00	30	9/28/2024
S003	Milk	Diary	40	2L	15.00	80	9/27/2024
S004	Rice	Grain	15	10kg	60.00	25	9/26/2024
S005	Chicken	Meat	30	5kg	75.00	20	9/25/2024
S006	Orange Juice	Beverages	30	1L	10.00	40	9/24/2024
S007	Pasta	Grain	15	500g	12.00	30	9/24/2024
Total			155			245	

We can assume that per order stock quantity is ordered according to its reorder level.

Report Layout Number: 02

Report Layout Name: Monthly Sale Report

Description: Can oversee the sales that gross over the week in the supermarket.



Tripple A Supermart

Monthly Sale Report

2024/09/01 to 2024/09/30

Sale Id	Product Id	Product Name	Price	Quantity	Price Calculate	Discount	Sale Start Date
1	P001	Apple Red Flavor Category	30.50	10	305.00	5.00	9/1/2024
2	P002	Wheat Bread	20.00	5	100.00	2.00	9/2/2024
3	P003	Pack of Milk	15.00	8	120.00	1.50	9/3/2024
4	P004	Rice 10kg Pack	60.00	2	120.00	3.00	9/4/2024
5	P005	Pre-Packaged Chicken	75.00	4	300.00	7.50	9/5/2024
6	P006	Bottle of Orange Juice 1L	10.00	12	120.00	1.20	9/6/2024
7	P007	Box of Pasta 500g	12.00	15	180.00	1.80	9/7/2024
8	P008	XXX	XX	XX	XX	XX	XXXX
9	P009	XXX	XX	XX	XX	XX	XXXX
10	P010	XXX	XX	XX	XX	XX	XXXX
11	P011	XXX	XX	XX	XX	XX	XXXX
12	P012	XXX	XX	XX	XX	XX	XXXX
13	P013	XXX	XX	XX	XX	XX	XXXX
14	P014	XXX	XX	XX	XX	XX	XXXX
15	P015	XXX	XX	XX	XX	XX	XXXX
16	P016	XXX	XX	XX	XX	XX	XXXX
17	P017	XXX	XX	XX	XX	XX	XXXX
18	P018	XXX	XX	XX	XX	XX	XXXX
19	P019	XXX	XX	XX	XX	XX	XXXX
20	P020	XXX	XX	XX	XX	XX	XXXX
21	P021	XXX	XX	XX	XX	XX	XXXX
22	P022	XXX	XX	XX	XX	XX	XXXX
23	P023	XXX	XX	XX	XX	XX	XXXX
24	P024	XXX	XX	XX	XX	XX	XXXX
25	P025	XXX	XX	XX	XX	XX	XXXX
26	P026	XXX	XX	XX	XX	XX	XXXX
27	P027	XXX	XX	XX	XX	XX	XXXX

28	P028	XXX	XX	XX	XX	XX	XXXX
29	P029	XXX	XX	XX	XX	XX	XXXX
30	P030	XXX	XX	XX	XX	XX	XXXX
Total				56	Rs.1,245		

Total Sale from 2024/09/1 to 2024/09/7 is Rs.1,245 from total product of 56
that has the gross sale target.

Report Layout Number: 03

Report Layout Name: Monthly Employee Report

Description: Can oversee the Employees details for the month they have added.



Tripple A Supermart

Monthly Employee Report

2024/09/30 to 2024/10/29

Employee Id	First Name	Last Name	Employee Type	Position	Department	Date Joined	Salary
E1	Sajid	Iqbal	Supervisor	Intern	Supervising	9/30/2024	70,000.00
E2	Tom	Smith	Digital Marketer	Senior	Marketing	10/01/2024	120,000.00
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
E4	Thimathy	Manahara	Storekeeper	Junior	Stock	10/3/2024	150,000.00
E5	Qaadid	Rizan	Sale Representative	Senior	Sale	10/4/2024	40,000.00
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX

XX	XXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX

Total Employees in the Triple A Supermart were added during the period of 2024/09/30 to 2024/10/29 as the recent employees for each department. They can get a summary of which employee has been assigned to which department.

Report Layout Number: 04

Report Layout Name: Monthly Customer Report

Description: Can oversee the Employees details for the week they have added for even Normal or Loyalty Customers.



Tripple A Supermart

Monthly Customer Report

2024/09/01 to 2024/09/30

Customer Id	Customer Name	DoB	Email	City	Street	Postal Code	Mobile
C11	Eric Wilson	1980-11-17	Eric. Wilson @example.lk	Colombo	Duplication Rd	200	0771122334
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX

XX	XXXX						
XX	XXXX						
XX	XXXX						
XX	XXXX						
XX	XXXX						
XX	XXXX						
XX	XXXX						
XX	XXXX						
XX	XXXX						
XX	XXXX						
XX	XXXX						
XX	XXXX						
XX	XXXX						
XX	XXXX						
XX	XXXX						
XX	XXXX						

Total Customers details that were recorded during the period of 2024/09/01 to 2024/09/30 and can get a summary of customers who are active members or not.

Report Layout Number: 05

Report Layout Name: Weekly Payment Report

Description: Can check the payments for the last 7 days and predict the gross total of it.



Tripple A Supermart

Weekly Payment Report

2024/10/06 to 2024/10/13

Order Id	mobile	Customer Name	Item Name	Quantity	Unitprice	Discount	Tax	Total Price	Payment Method
O1	0771122 334	Eric Wilson	Apple Juice	10	30.50	5.00	0.30	290.62	Cash
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX

Can get a summary of total payments which have been purchased by the customers from 2024/10/06 to 2024/10/13

Chapter 5: Conclusion

In the conclusion, the software being developed to Tripple A Supermart for managing their daily task. In this case, we have used to develop software such as C#, database (MSSQL Server), Visual Studio, draw.io to develop this software.

By adhering to this summery, Tripple A Supermart will be develop asset, implemented, and maintained effectively for a supermarket with innovative technology.

5.1 References

- ✓ <https://circle.visual-paradigm.com/generalization-use-case/>
- ✓ <https://www.educative.io/answers/what-is-generalization-in-a-use-case-diagram>
- ✓ <https://www.geeksforgeeks.org/unified-modeling-language-uml-class-diagrams/>
- ✓ <https://www.datensen.com/blog/data-modeling/relationships-in-er-diagrams/#:~:text=Types%20of%20Relationships%20in%20ER,one%20record%20in%20another%20table.>
- ✓ [https://softwareengineering.stackexchange.com/questions/345709/er-d-many-vszero-or-many-one-or-many-crowfoot-notation](https://softwareengineering.stackexchange.com/questions/345709/er-d-many-vs-zero-or-many-one-or-many-crowfoot-notation)
- ✓ <https://ictsmart.tripod.com/ict4/online/artdbtd.htm>

5.2 Appendix

Letter issued by Organization.



TRIPLE A SUPER MART (PVT) LTD

PV - 00253511

NO-17A, IDH Road, Salamulla, Kolonnawa.

0112547277 0760135340 tripleasuper0804@gmail.com

Feb 19th 2024,

Greetings!

Director- School of Computing & Engineering.
National Institute of Business Management,
Colombo 07.

Dear Sir.

Re: Approval to Develop a System for Our Company

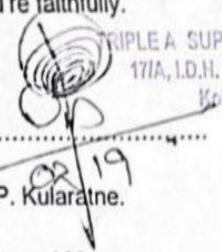
I am pleased to inform you that we grant approval for university students from NIBM to develop a system for our company. We appreciate their interest and willingness to contribute their skills and knowledge to address our business needs. Students Details as follows,

1. Mr. M.I.M.Sajid
2. Mr. S.A.Y.M.Samarakoon.
3. Mr. M.R.M.Rimas

For an additional information. Please do not hesitate to contact us at
tripleasuper0804@gmail.com or 0112 547277 / 0779138011

Thank you very Much

You're faithfully.


TRIPLE A SUPERMART (PVT) LTD
17A, I.D.H. Road, Salamulla,
Kolonnawa.
.....
J.P. Kularatne.
General Manager

Log Sheet

Meeting Date	Students Indices (Participated)	Comments	Signature of the supervisor
26/03/2024	189, 036, 231	Should start drawing use case Q class diagram	Gra
27/03/2024	189, 36, 23	Changes to be made in use case, redraw class. To do: ER Sequence	Gra
7/5/2024	189, 36	Need to update the use class, ER, sequence Start UI implementation	Gra
29/5/24	189, 36	Has started implementation	Gra
30/5/24	189, 36	In progress in implementation	Gra
13/6/24	189, 36	Need to update use case class has unnecessary class in class. Need to change cardinality in ER	Gra
24/7/24	189, 36	Need to make major changes in use case.	Gra
30/7/24	189, 36	Need to make changes in class diagram, relationships are missing. /ER	Gra

LOG SHEET