Software Diagrams Specification

for

Super Shop Management System

Prepared by:

Hasneen Tamanna Totinee (362) Yumna Tasneem (369) Md Abdullah Al Mamun (390) Raian Rashid (403

Jahangirnagar University, Savar Object Oriented Analysis and Design

August 24, 2023

Contents

1	Dia	grams	2
	1.1	Use Case Diagram	3
		1.1.1 Extended Use Cases	4
	1.2	Class Diagram	8
	1.3	Sequence Diagram	9
		1.3.1 Sequence Diagram-1	9
		1.3.2 Sequence Diagram-2	10
		1.3.3 Sequence Diagram-3	11
		1.3.4 Sequence Diagram-4	12
	1.4	Activity Diagram	13
	1.5	State Chart Diagram	14
	1.6	Database Schema	15

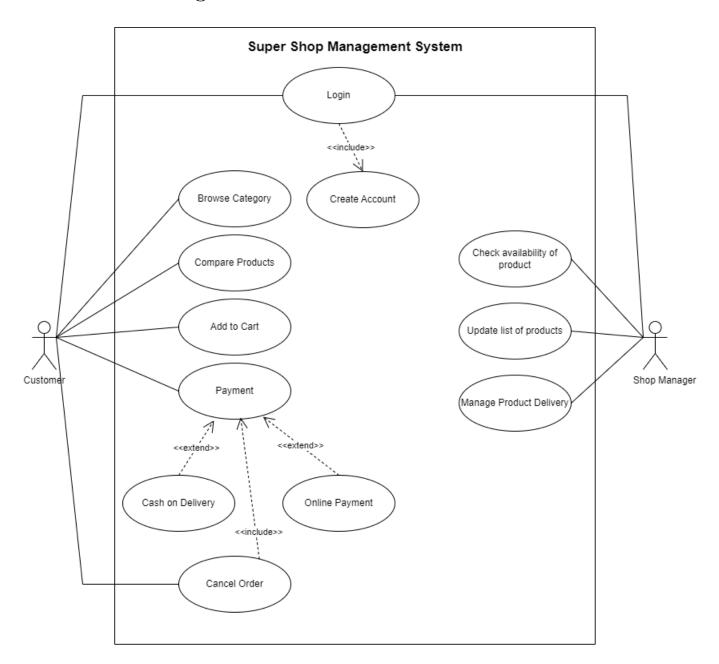
Chapter 1

Diagrams

We are proposing an online super shop management system where our customers will be able to get necessary groceries needed for everyday life, delivered to their doorsteps.

This document will contain various diagrams of our project. These diagrams will provide a better understanding to our project and what we are intending to achieve with respect to our client's demands.

1.1 Use Case Diagram



1.1.1 Extended Use Cases

Use Case ID: UC 1

Use Case Name: Create Account

Actor: Customer, Shop Manager

Description:

- 1. Input name
- 2. Input e-mail
- 3. Set username
- 4. Set Password
- 5. Confirm Password

Exception:

- 1. Incorrect email format
- 2. Username already exists

Precondition:

- 1. URL of the website **Post condition:**
- 1.Successful Account created successfully!
- 2. Unsuccessful Could not create an account

Use Case ID: UC 2 Use Case Name: Login

Actor: Customer, Shop Manager

Description:

- 1. Input name
- 2. Input username
- 3. Input password

Exception:

- 1. Wrong username
- 2. Wrong password

Precondition:

- 1. URL of the website **Post condition:**
- 1.Successful Redirect to homepage
- 2. Unsuccessful Could not login successfully

Use Case ID: UC 3

Use Case Name: Browse Catagory

Actor: Customer Description:

- 1. Search for items
- 2. View item details and price

Exception:

- 1. Wrong item information
- 2. Item not available

Precondition:

- 1. URL of the website
- 2. Should have an account

- 1.Successful Select item and redirect to cart page
- 2. Unsuccessful Sorry, Item not available at the moment

Use Case ID: UC 4

Use Case Name: Compare products

Actor: Customer Description:

- 1. Search for products based on specific criteria
- 2. Compare between products according to personal preference
- 3. View the comparison side by side

Exception:

- 1. Could not add item to compare
- 2. View details that are not similar between the items

Precondition:

- 1. Browse the menu or homepage
- 2. Select product to view comparison

Post condition:

- 1. Successful View the comparison based on specific criteria
- 2. Unsuccessful Could not find similar products in stock to compare

Use Case ID: UC 5

Use Case Name: Add to Cart

Actor: Customer Description:

- 1. Select items to be added on the cart before payment
- 2. Select item amount

Exception:

1. Item could not be added to the cart

Precondition:

1. Browse the menu or homepage

Post condition:

- $1.\mathbf{Successful}$ Redirect to the payment page
- 2. Unsuccessful Item could not be added

Use Case ID: UC 6

Use Case Name: Payment

Actor: Customer Description:

- 1. Option of online payment or COD(Cash-on-Delivery)
- 2. May use voucher for discount

Exception:

1. Error during loading items from the cart

Precondition:

1. Have items added on the cart

- 1.Successful Payment was successful
- 2. Unsuccessful Payment was unsuccessful, please try again

Use Case ID: UC 7

Use Case Name: Cash on Delivery

Actor: Customer Description:

- 1. Input delivery address
- 2. Pay for the item by cash on delivery

Exception:

1. Miscommunication between deliveryman and receiver

Precondition:

- 1. Provide the delivery address
- 2. Have the receipt and information about deliveryman

Post condition:

- 1.Successful Payment was successful
- 2. Unsuccessful "Payment incomplete"

Use Case ID: UC 8

Use Case Name: Online Payment

Actor: Customer Description:

- 1. Input required information
- 2. Pay for the item through mobile-banking or card

Exception:

1. Error while payment is on process

Precondition:

- 1. Provide the delivery address
- 2. Provide necessary information on mobile-banking account or bank account

Post condition:

- 1. Successful Payment was successful
- 2. Unsuccessful "Payment unsuccessful, please try again"

Use Case ID: UC 9

Use Case Name: Cancel Order

Actor: Customer Description:
1. Cancel an order

Exception:

1. Unable to meet the specific criteria for cancellation

Precondition:

1. Order must be confirmed

- 1.Successful -
- (i) Received refund
- (ii) Paid fine for late cancellation
- (iii). Order successfully cancelled
- 2. Unsuccessful Unable to cancel because cannot meet the required criteria for cancellation

Use Case ID: UC 10

Use Case Name: Check availability of product

Actor: Shop Manager

Description:

1. Look for item amount

Exception:

1. Database error on item stock

Precondition:

1. Must be logged in as manager

Post condition:

- 1. Successful Get information on item availability
- 2. Unsuccessful Unable to get the needed information

Use Case ID: UC 11

Use Case Name: Update List of products

Actor: Shop Manager

Description:

1. Update browsing menu and/or item amount

Exception:

1. Database Error

Precondition:

1. Should have an idea about stock and item availability

Post condition:

- 1.Successful Menu updated successfully
- 2. Unsuccessful Menu could not be updated

Use Case ID: UC 12

Use Case Name: Manage product delivery

Actor: Shop Manager

Description:

1. Manage delivery system for better customer experience

Exception:

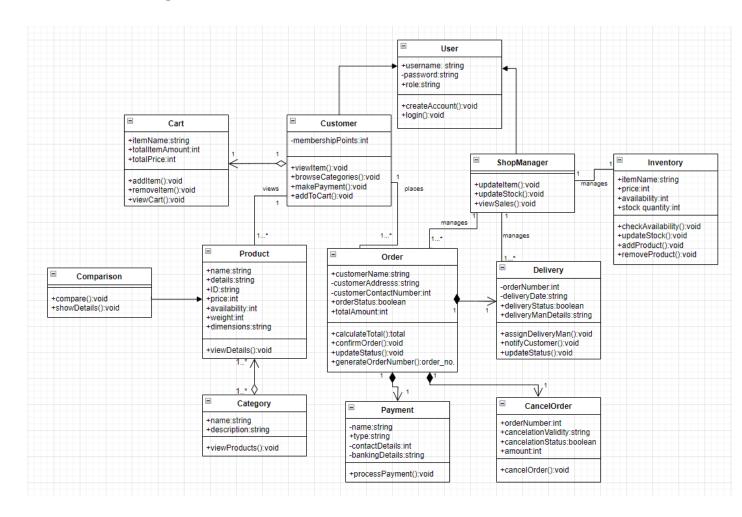
- 1. Rider not available
- 2. Late item delivery

Precondition:

- 1. Must have delivery man assigned
- 2. Delivery only after the payment in case of online payment

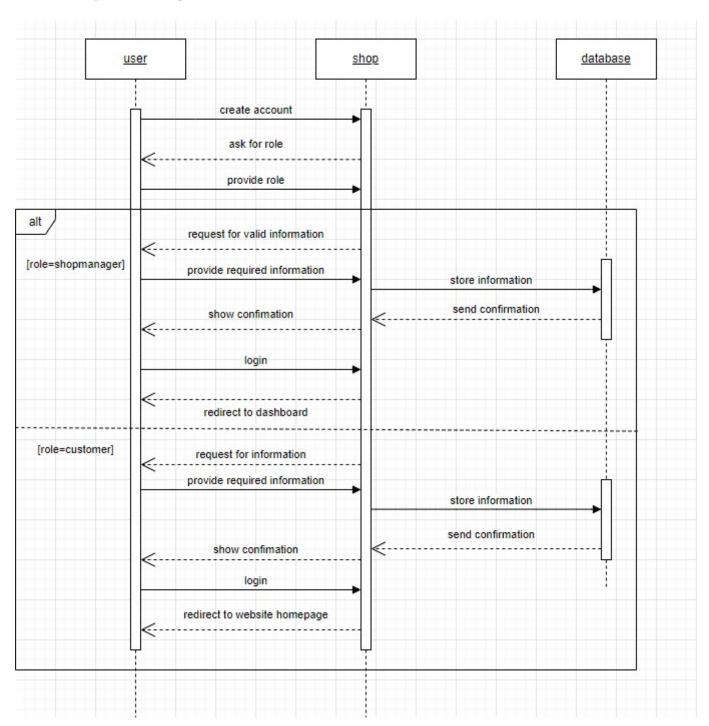
- 1.Successful Item delivered successfully
- 2. Unsuccessful -Item could not be delivered

1.2 Class Diagram

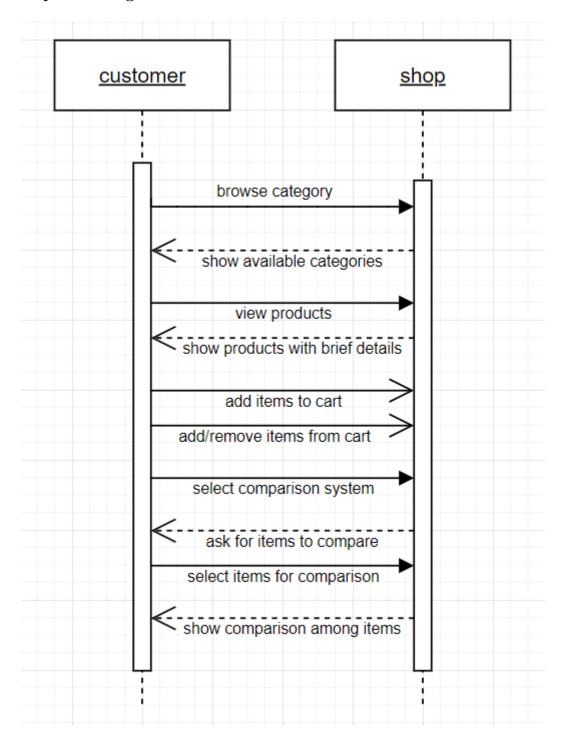


1.3 Sequence Diagram

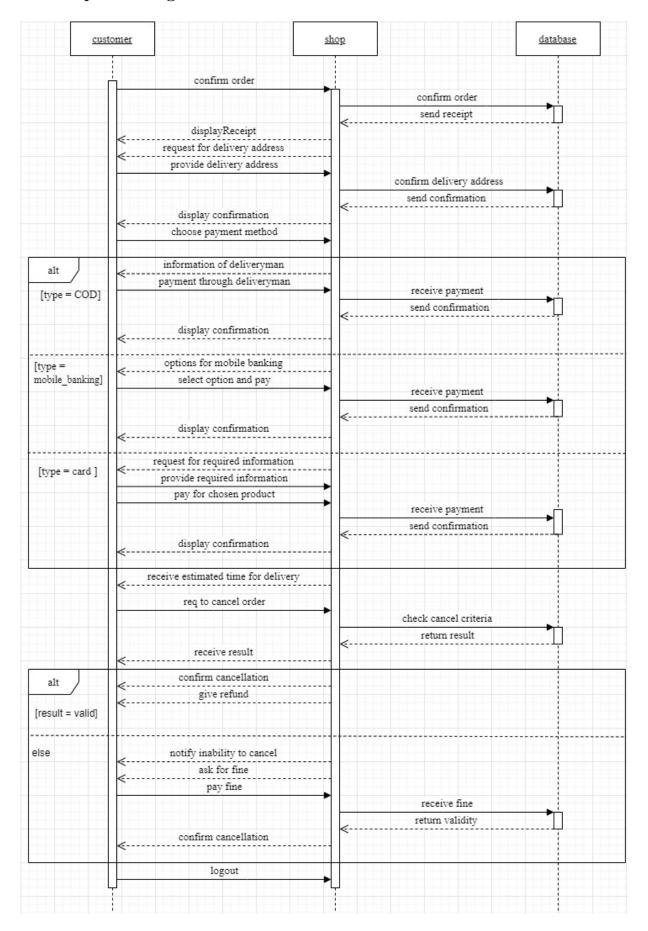
1.3.1 Sequence Diagram-1



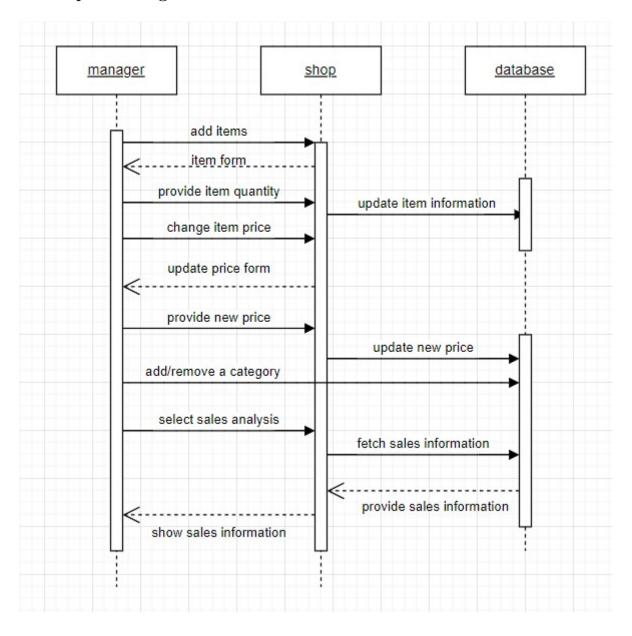
1.3.2 Sequence Diagram-2



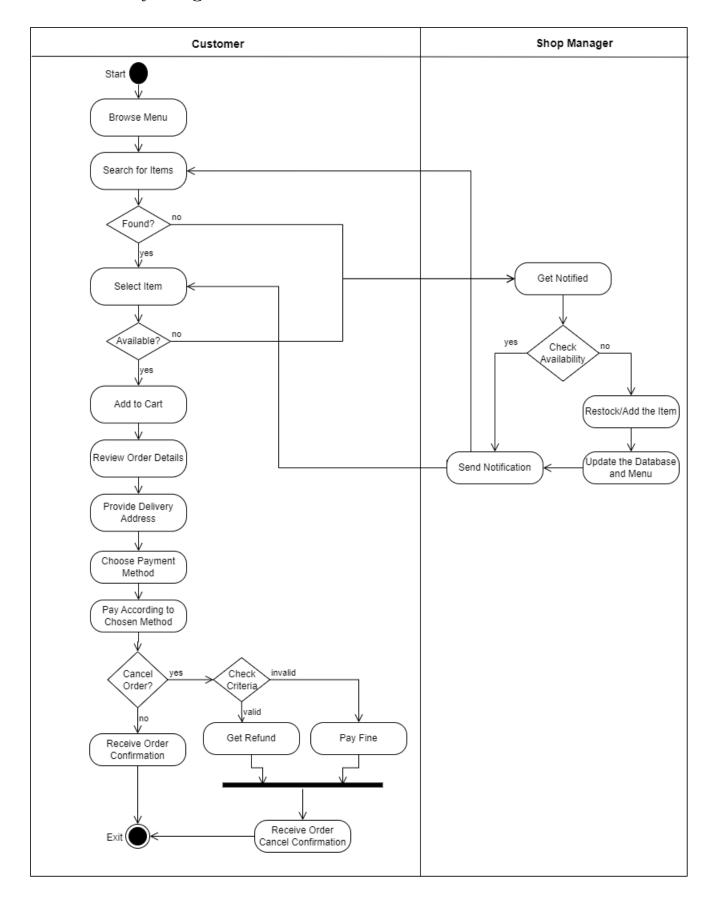
1.3.3 Sequence Diagram-3



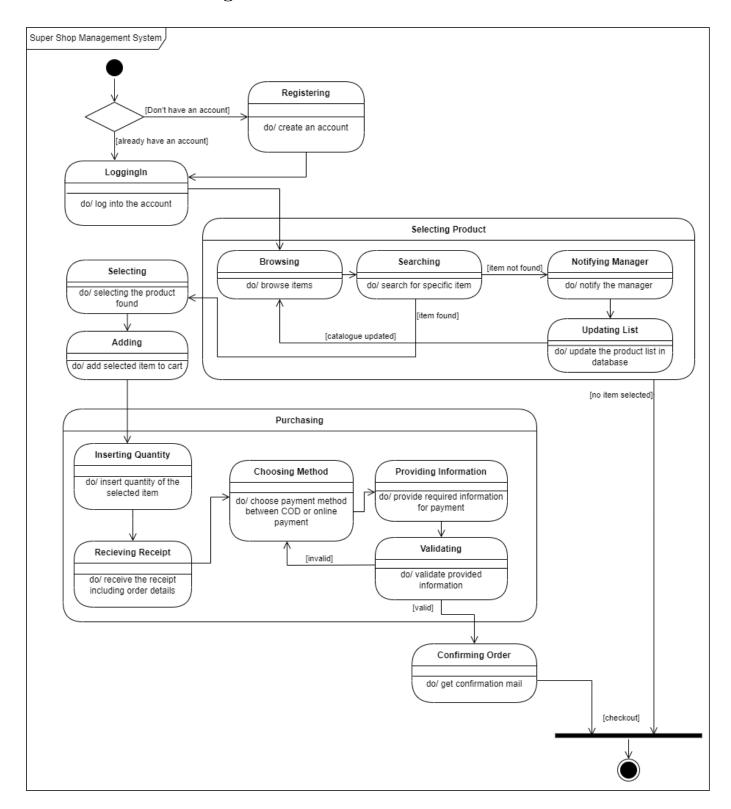
1.3.4 Sequence Diagram-4



1.4 Activity Diagram



1.5 State Chart Diagram



1.6 Database Schema

