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# Online pharmacy

Online pharmacy-FCAI HU- Information system department  
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# Chapter 1

## 1 - Introduction

In this chapter we are going to discuss and go deeper in the overview of the project and know more about its scope and limitations and explain some terminologies we will find throughout the document.

### 1.1 Overview

E-Pharmacy is a business model that deals with the preparation and sale of prescription and non-prescription drugs as in traditional pharmacies. However, online pharmacies take orders online and send the drugs to their destination.

With the internet being an important part of our lives, it was not a surprise that pharmacies started to move to the online platform.

E-Pharmacy is a pharmacy that sells medicines on the internet and delivers them to customers. Thanks to the internet, the drug purchasing process becomes much easier and more convenient. Patients can order their prescription medicines from registered pharmacists via the internet and receive their medicines from the nearest delivery point. The E-Pharmacy model, which is very easy

to use and continues to spread rapidly, started to replace traditional pharmacies.

## 1.2 Objectives

Our main objectives are:

- Our team aims to develop a high quality and fast performance website that will serve as a patients by looking for the medicines it needs and provides some medical services.
- Provide the system users with an easy and speed search way to find the specific details of medicine and find a doctor and a lab .
- subjects that he/she is looking for by providing our system with a real medicine database, the search results must display in a few seconds and must be accurate and correct .
- Our staff aims to adding all new Medical and beauty products and improvements that Which will be identical and modified according to the latest medicines in the country to provide a simplified and easy service for system users .
- We aim to provide our users with professional pharmacist to help them in their personal or public cases in pharmacy and provide chatpot in website give them response for there requests within 24 hours to have 100% user satisfaction .
- The user can make feedback about the pharmacy , website , suggestions and complaints , and we can measure the extent of customer satisfaction about the pharmacy through this evaluation

and the comments given, also using this service, clients who are looking for a pharmacy for medicine can choose him.

- The user can request a order for any medicine , beauty products , table drugs , find a doctor and a lab in area of pharmacy , can request pharmacy for medical services , can find dose calculator , can communicate with doctors in different specialists at live at fixed time

also can edit in your profile .

- The admin can add, drop order coordinator and accountant also can add , drop medical and beauty products , medical services , offers , announcements, news .
- the owner can see feedback , add and drop admin , see services analytics .
- the order coordinator can manage orders by users through pending list and can click done on orders will sent to users and convert to shipped list.
- the accountant can manage delivered orders and press done shipped orders in shipped list to delivered list and get money the delivered orders.

### 1.3 Purpose

- Our project aims to facilitate communication between Patients and Pharmacy.
- also, our project aims to facilitate to user to find a doctor and a lab next to the pharmacy.

- The User can request a medical service same as (blood pressure measurement and blood sugar measurement).
- it's a Pharmacy, which makes it easier for the user to view the Medical and Beauty Products of the Pharmacy easily and can request order any time .
- The user can also consult and communicate with doctor by I send comments at live at fixed time, And the doctor responds during live video.
- The system provides the most important health news and the most important advice for diseases that the patient must follow.
- The system provide Dose Calculator for patients
- The User can ask any questions through chat pot.

## 1.4 Scope

The project collects all the Medical and Beauty products on the website so that the patient can search for any of these products and order any of them online and can see the description of the drug and can communicate with the doctor through a live broadcast at a fixed time and can find the right doctor and lab next to the pharmacy.

The approximate work involved to finish the project is divided into these five phases: -

## 1.4.1 Planning

- Collecting datasets about the project and the lack that made us in a need to the App.
- Searching for easy way to collect data in organized way that can be updated easily.
- Asking Pharmacist about Medicine and What features that . are added on the website benefit the pharmacy?
- Determining the functional and non-functional requirements.
- Determining the resources of the team.
- Prepare a database to move data into it .
- Dividing the tasks on team .

## 1.4.2 Designing

- Determining the diagrams to be carried out within the project:
  - ✓ Use-case Scenario
  - ✓ Activity Diagram
  - ✓ Class Diagram

✓ Use-case Diagram

✓ Sequence Diagram

### 1.4.3 Coding

The main supposed functions to be coded in this App are: -

- Sign up.
- Login.
- Logout.
- Forget password.
- View live session.
- Add comment to live session
- Add product to favourite list
- Show List of favourite
- Show cart
- Update cart
- View product discount
- Show comment
- Search For Products.
- View Products.
- View Product details.
- add Products to cart.
- give Feedback.
- List of orders.
- Edit Profile
- Find a Doctor.

- Find a Lab.
- View News.
- Add Live Session.
- View notification of expire
- View notification of reorder
- Disable product
- Drop dose calculator
- Update doctor
- Drop doctor
- Add news
- Update news
- Drop news
- Update lab
- Drop lab
- Disable live session
- Add type of product
- Update type of product
- Update announcement.
- Drop announcement.
- View Dose Calculator.
- Add Dose Calculator.
- Add announcements.
- View announcements.
- Add Products.
- Edit Products.
- Add Order Coordinator.

- Disable Order Coordinator.
- Add Accountant.
- Disable Accountant.
- Add Doctors.
- Add Labs.
- Add offers.
- Update offer
- Drop offer
- view pending list.
- View waiting orders
- View shipped order
- Add Order
- Add shipped List.
- add Delivered List.
- View delivered orders
- View shipped list
- Canceled order
- Add Admin
- Disable Admin
- view Feedback.
- view System analytics.

#### 1.4.4 Testing

- Functional Testing: -
  - Unit testing
  - Regression testing
  - Integration testing
- Non-functional Testing: -
  - Performance testing
  - Stress testing
  - Security testing

#### 1.4.5 Documentation

Should mainly include these main chapters: -

- Introduction: includes an overview of the project and limitations.
- Project Planning: includes the tools and technologies as well as tasks and timeline plan.
- Project Requirements: includes the functional and nonfunctional requirements.
- Project Design: includes the diagrams.

- Project Implementation: includes user application and administrator system.
- Project Testing: includes testing types.

## 1.5 General constraints

### 1.5.1- Time Constraints

- Collect data about Medicines and her Description.
- Time management.

### 1.5.2 Software Constraints:

- make rules and conventions commonly agreed to in each programming environment explicit and automatically checkable.
- Frontend: we use Html5 , Css3 , Bootstrap , Java Script, Type Script , Angular .
- Backend: we use Php , Laravel , Microsoft Sql Server.

### 1.5.3-Hardware constraints

- they enable run our application on web Application.

## Chapter 2

### Project “Planning and analysis”

in this chapter we are going to discuss and go deeper in how we plan the project and show the steps and the instructions that we have followed to plan the application

#### 2.1 Project planning

##### 2.1.1 Feasibility study

##### Reasons for choosing this project to work on :

- The reason for choosing this idea was in order to facilitate the purchase of medical products and medicines, as they are ordered online and to know the products available at the pharmacy by entering the pharmacy website and browsing it
- this idea works to save the customer's time and make it easier to communicate with the pharmacy and buy its products, so the customer did not have to go down specifically in order to buy the drug, nor did he contact the pharmacy to know whether that drug was available to them or not.

## 1. Market analysis :

### - Distinctive points in our project :

- Ease of communication with a doctor
- Requesting medical services such as (measuring blood sugar, blood pressure)
- See ads for medical companies

### - Market need :

person needs to know the medical products available in the market and in which pharmacy they are located, and to learn about new pharmacies, whether inside or outside his domain, by browsing the Internet and searching for a particular pharmacy or product

## 2. Organizational and operational analysis :

### - Technical analysis :

- Easy to use, uncomplicated, safe and can be used on any device
- Technology used: php & mysql & js

- **Organizational analysis :**
  - This site is for one pharmacy and needs owner, admin, order coordinator and accountant
  - Dealing with pharmaceutical companies to display their offers and products on the site
- **Sales analysis :**
  - Update product data
  - Add new offers on products
  - Follow up on complaints and feedback
  - Ensure that orders reach the customer

### 2.1.2 Estimated Cost :

We may need some cost in uploading the website .

## 2.2 Analysis and Limitation of existing system

### Non-Usability:

There are also several other web portals created for the purpose of search in Pharmacies to get the medicine,

But it is difficult to use for a citizen who wants to access the medicine text of a particular.

Ineffective systems lead to wrong results when the requests are multiple and repetitive at the same time.

### **lack of data security:**

There is no security for any of the information stored in the database.

### **no interact:**

Most systems work as a book or document only to read the content of the medicine

and there is no interaction between the user and the book  
and the user cannot ask about any thing to it ,but there is interaction between user and system

## **2.3 Need for the new system**

The system was built with easy user interface so that the user and the Pharmacies to use it

researcher can access the content with ease to save time and effort to the user.

In this system, the database was created so that the admin can add any medicine

In addition to viewing the contents of the medicine and offers, the user can interact with the system, The user can also consult a doctor by sending a request to the pharmacy , And the pharmacist may respond with an appointment time or decline the request.

Users can also rate the system and staff and make a review to help other users to use this system

Pharmacy should choose an experienced doctors and pharmacist to deal with it .

## 2.4 Analysis of a new systems

### 2.4.1 User requirement:

#### 1) Mandatory Requirements:

- 1- Only owner can add, and drop admin on the website, see feedbacks, see statistics about requested orders and statistics about people who use the site
- 2- Only admin can add, drop, or update anything on the website.
- 3- The accountant can deal with the delivered and shipped list, and transfer rejected order to the order coordinator with a comment.
- 4- The order coordinator can deal with waited, shipped, and rejected list.
- 5- The user shall order any product he wants to.
- 6- The user can rate pharmacy, services, and website.

#### 2) Desirable Requirements:

- 7- The user can browse the website at any time, so our website should be available in any place and any time with any browser.
- 8- The user shall create an account or log in directly.

- 9- The user needs to use the search bar to make the process easier.
- 10- The user can find doctors in various specialties and medical laboratories located in the area around the pharmacy.
- 11- Provide chat bot to user
- 12- The user can attend any lives in a site

### 3) Optional Requirements:

- 13- The users prefer registration with special accounts like Facebook or Gmail so we will provide this feature in our site.

## 2.4.2 System Requirement:

- 1.1 Owner adds admin via email and password.
- 1.2 If admin leaves pharmacy, owner shall disable his account from system.
- 1.3 Owner can see all feedbacks about pharmacy, services, or website.
- 1.4 Owner can see statistics about user's order quantities and prices.
- 1.5 Owner can see statistics about the most requested product.
- 1.6 Owner can choose to display statistics on the most days, weeks, or months in which product are requested.
- 2.1 Admin can add, disable, or edit products.
- 2.2 Admin can add new products in reorder point.

2.3 Admin can add, or disable account for accountant, and order coordinator.

2.4 Admin can add or drop doctors list.

2.5 Admin can add or drop medical laboratories.

2.6 Admin can add or edit advertisement and services.

2.7 Admin can add or edit or delete offers in some products.

3.1 Accountant should confirm that the order has been shipped from delivered orders. and delivered to users, and he took money

3.2 If orders have been rejected from user, he sends these orders to coordinator with a comment for a reason of rejection these orders.

4.1 The order coordinator should ship orders that are in the waited list and confirm sending them to the user

4.2 When order coordinator ships product, it turns to shipped list.

4.3 Order coordinator can see rejected products in rejected list sent from accountant with a comment on the reason of rejected with the rejected product.

5.1 User can select the product, and quantity he wants then this Product has added to cart.

5.2 User confirms or cancels his order from cart.

6.1 Users can rate pharmacy from 1 to 5 stars and leave a comment

6.2 Users can rate website from 1 to 5 stars and leave a comment

6.3 Users can rate services from 1 to 5 stars and leave a comment

7.1 If a user has an account, he can log in via email and password.

7.2 If a user doesn't have an account, he can create account via input his first name, last name, address, phone, email, and password.

8.1 User can search for the medicine he needs by name.

8.2 User can search for doctors in various specialties located in the area around the pharmacy.

8.3 User can search for medical laboratories located in the area around the pharmacy.

8.4 If user needs to ask any question or inquire about anything, there are chat bot.

## 2.4.3 Domain Requirements:

- 1- Multiple users must be able to use the website simultaneously without corrupting the database (whatever form it may be).
- 2- The website must verify all values before making the change in the database.
- 3- The database should be backed up occasionally in case the original does become corrupt.
- 4- Website runs in any browser
- 5- The website must have update capabilities for future models and accessories .

## 2.4.4 Functional requirements:

### 1. Sign up

<b>Name</b>	Sign Up
<b>Actor</b>	User
<b>Input</b>	Fill registration form (Email, username, password , Confirm password , First Name , Last Name ,Address, phone...etc.)
<b>Output</b>	User will go directly to this Verification Code page
<b>Description</b>	user can create an account to be a part of the application, and Redirect to the Verification Code page for the second time then login to the website .
<b>Precondition</b>	open the application, client should enter a valid data to create an account such Email, username, password , Confirm password , First Name , Last Name ,Address, phone .
<b>Postcondition</b>	the user should have an account and redirect to login page by Email and password .



## 2.Login

<b>Name</b>	Login
<b>Actor</b>	User , Admin ,order Coordinator , Accountant , Owner .
<b>Input</b>	Enter Email and Password .
<b>Output</b>	User will go directly to this Home Page.
<b>Description</b>	user should enter his email and his password for authorizing that he has an account .
<b>Precondition</b>	open the application, enter login Button, and enter a valid e-mail and password.
<b>Postcondition</b>	Logged into the system then enter to home page then he can go to his profile that has its data which saved in the database.

## 3.Logout

<b>Name</b>	Logout
<b>Actor</b>	User , Admin ,order Coordinator , Accountant , Owner .
<b>Input</b>	Press Logout button
<b>Output</b>	End user session
<b>Description</b>	After the user login to the application, they can logout easily from account.
<b>Precondition</b>	open the application, login, enter log out Button you have been logged in first.
<b>Postcondition</b>	user will log out successfully and could not use the application without doing login again

## 4.Search Product

<b>Name</b>	Search Product
<b>Actor</b>	User
<b>Input</b>	Write product's name .



<b>Output</b>	List of all results related to the search .
<b>Description</b>	Help the user to search about products that have the same product name .
<b>Precondition</b>	Sign up or login and go to search icon then write name in text field .
<b>Postcondition</b>	All the products that have same name will display

## 5. View Products

<b>Name</b>	View Products
<b>Actor</b>	User
<b>Input</b>	User must login on the website .
<b>Output</b>	List of all products .
<b>Description</b>	User must login and able to see all products on the website .
<b>Precondition</b>	User must have an account , login on the website .
<b>Postcondition</b>	User able to see all products on the website .

## 6. Edit Profile

<b>Name</b>	Edit Profile
<b>Actor</b>	User , Admin ,order Coordinator , Accountant , Owner .
<b>Input</b>	Edit Your information
<b>Output</b>	Profile information updated in database
<b>Description</b>	User want to change data in his profile
<b>Precondition</b>	User must be logged in successfully
<b>Postcondition</b>	Profile updated with the new data

## 7. Find Doctor

<b>Name</b>	Find doctor
<b>Actor</b>	User



<b>Input</b>	Press find doctor page and choose specialty
<b>Output</b>	List of doctors specialize in this disease
<b>Description</b>	User must to login and press find doctor page and choose specialty and show list of doctors specialize in this disease
<b>Precondition</b>	User must have an account and login successfully
<b>Postcondition</b>	View list of doctors

## 8.Find Lab

<b>Name</b>	Find lab
<b>Actor</b>	User
<b>Input</b>	Press find lab page
<b>Output</b>	List of labs
<b>Description</b>	User must login successfully and press find lab page
<b>Precondition</b>	User must have an account and log in successfully
<b>Postcondition</b>	View list of labs

## 9.View News

<b>Name</b>	View news
<b>Actor</b>	User
<b>Input</b>	Press view news page
<b>Output</b>	View list of most important health news
<b>Description</b>	User must login successfully and press view news page and view list of news
<b>Precondition</b>	User must have an account and log in successfully
<b>Postcondition</b>	View list of news



## 10. View Live Session

<b>Name</b>	View Live Session
<b>Actor</b>	User
<b>Input</b>	Press live session page
<b>Output</b>	User view live session
<b>Description</b>	User must login successfully and press live session then he become able to join session
<b>Precondition</b>	User must have an account and log in successfully
<b>Postcondition</b>	Join to live session

## 11. Add Dose Calculator

<b>Name</b>	Add dose calculator
<b>Actor</b>	Admin
<b>Input</b>	Enter the (age, state, number of dose and name of product)
<b>Output</b>	The information had saved
<b>Description</b>	Admin must to login and press add dose calculator then add the age, state, number of dose and name of product
<b>Precondition</b>	Admin must to login successfully and have information required
<b>Postcondition</b>	The information saved and the system return number of dose to user depend on the person's case

## 12. View Dose Calculator

<b>Name</b>	View dose calculator
<b>Actor</b>	User
<b>Input</b>	Enter the (age, state and name of product)
<b>Output</b>	Return the number of dose depend on person's case



<b>Description</b>	user must to login and press view dose calculator then add the age, state and name of product
<b>Precondition</b>	User must to have account and login successfully
<b>Postcondition</b>	The user knows the appropriate number of doses for his condition

### 13.Add Product

<b>Name</b>	Add product
<b>Actor</b>	Admin
<b>Input</b>	Enter the (photo of product, name, description of product and price)
<b>Output</b>	The information had saved
<b>Description</b>	Admin must to login and press add product and update the photo of product, name of product, description of product and price
<b>Precondition</b>	Admin must to login successfully and have information required
<b>Postcondition</b>	The information saved and the user can view product information in details

### 14.View Announcements

<b>Name</b>	View announcements
<b>Actor</b>	User
<b>Input</b>	User must to login
<b>Output</b>	The user see announcements
<b>Description</b>	The user must to login and see announcement in home page
<b>Precondition</b>	User must to have an account and login successfully
<b>Postcondition</b>	The user able to see announcement in the system

## 15. Add announcements

<b>Name</b>	add announcements
<b>Actor</b>	Admin
<b>Input</b>	User must to login and enter the head of announcement and the details of announcement
<b>Output</b>	The information had saved
<b>Description</b>	Admin must to login and press add announcement then add head of announcement and the details of announcement
<b>Precondition</b>	User must to have an account and login successfully
<b>Postcondition</b>	The information saved on the system and appear to user in home page

## 16. Edit Product

<b>Name</b>	Edit product
<b>Actor</b>	Admin
<b>Input</b>	The filed he want to change
<b>Output</b>	The information updated in the system
<b>Description</b>	Admin must to login and press edit product and change the filed he want to change
<b>Precondition</b>	Admin must to login successfully and the product must be exit
<b>Postcondition</b>	The information updated and the user can view the update

## 17. Add order coordinator

<b>Name</b>	add order coordinator
<b>Actor</b>	Admin



<b>Input</b>	Enter (username – e-mail – password – phone)
<b>Output</b>	The information had saved
<b>Description</b>	Admin must to login press add order coordinator and enter information required and press add
<b>Precondition</b>	admin must to login successfully and have the information about the order coordinator
<b>Postcondition</b>	The information saved on the system and the order coordinator added on the system and take permission to access the system

## 18. Disable order coordinator

<b>Name</b>	disable order coordinator
<b>Actor</b>	Admin
<b>Input</b>	Choose the order coordinator and press drop
<b>Output</b>	The order coordinator deleted from system
<b>Description</b>	Admin must to login and press drop order coordinator then choose the order coordinator he wants drop
<b>Precondition</b>	admin must to login successfully and the order coordinator must be exit
<b>Postcondition</b>	The information of order coordinator deleted and he can't be able to access the system

## 19. Add accountant

<b>Name</b>	add accountant
<b>Actor</b>	Admin
<b>Input</b>	Enter (username – e-mail – password – phone)
<b>Output</b>	The information had saved
<b>Description</b>	Admin must to login press add accountant and enter information required and press add



<b>Precondition</b>	admin must to login successfully and have the information about the accountant
<b>Postcondition</b>	The information saved on the system and the accountant added on the system and take permission to access the system

## 20. Disable accountant

<b>Name</b>	disable accountant
<b>Actor</b>	Admin
<b>Input</b>	Choose the accountant and press drop
<b>Output</b>	The accountant deleted from system
<b>Description</b>	Admin must to login and press drop accountant then choose the accountant he wants drop
<b>Precondition</b>	admin must to login successfully and the accountant must be exit
<b>Postcondition</b>	The information of accountant deleted and he can't be able to access the system

## 21. Add doctors

<b>Name</b>	add doctors
<b>Actor</b>	Admin
<b>Input</b>	Enter (name, specialize, appointment, address)
<b>Output</b>	The information had saved
<b>Description</b>	Admin must to login press add doctor and enter information required and press add
<b>Precondition</b>	admin must to login successfully and have the information about the doctor
<b>postcondition</b>	The information saved on the system and the doctor added on the system

## 22.Add labs

<b>Name</b>	add labs
<b>Actor</b>	Admin
<b>Input</b>	Enter (name of lab, type of medical analyses, appointment, address)
<b>Output</b>	The information had saved
<b>Description</b>	Admin must to login press add laboratory and enter information required and press add
<b>Precondition</b>	admin must to login successfully and have the information about the laboratory
<b>Postcondition</b>	The information saved on the system and the laboratory added on the system

## 23.View pending list

<b>Name</b>	View pending list
<b>Actor</b>	Order coordinator
<b>Input</b>	Press view pending list
<b>Output</b>	List of orders in pending list
<b>Description</b>	Order coordinator must to login press view pending list
<b>Precondition</b>	Order coordinator must to login successfully
<b>Postcondition</b>	Order coordinator view all orders and convert any order to shipped list

## 24.View Product Details

<b>Name</b>	View Product Details
<b>Actor</b>	User
<b>Input</b>	Press any product
<b>Output</b>	View product details
<b>Description</b>	The user shows the product that who need and press on it and see product details



<b>Precondition</b>	User have an account and login successfully on system and go to home page
<b>Postcondition</b>	Show product details

## 25.Add product to cart

<b>Name</b>	Add product to cart
<b>Actor</b>	User
<b>Input</b>	Press any product then press add to card
<b>Output</b>	Product added to his card
<b>Description</b>	User must login then press any product he needs then press add to card
<b>Precondition</b>	User have an account and log in successfully on system
<b>Postcondition</b>	Product add to card

## 26.Give feedback

<b>Name</b>	Give feedback
<b>Actor</b>	User
<b>Input</b>	Write feedback
<b>Output</b>	The feedback saved
<b>Description</b>	User must login then write feedback about pharmacy, website, suggestions and complaints
<b>Precondition</b>	User have an account and log in successfully on system
<b>Postcondition</b>	The feedback sent to the pharmacy

## 27.List of orders

<b>Name</b>	List of orders
<b>Actor</b>	User
<b>Input</b>	Press list of orders button



<b>Output</b>	Return list of all orders user made in the system
<b>Description</b>	User must login then press list of orders button then view list of orders
<b>Precondition</b>	User have an account and log in successfully on system
<b>Postcondition</b>	View all orders

## 28.Add order

<b>Name</b>	Add order
<b>Actor</b>	User
<b>Input</b>	Confirm order
<b>Output</b>	The information saved
<b>Description</b>	User must login then press on any product then press add to card then confirm order
<b>Precondition</b>	User have an account and log in successfully on system and added any product to his card
<b>Postcondition</b>	The order had confirmed and add to pending list

## 29.Add offer

<b>Name</b>	Add offers
<b>Actor</b>	Admin
<b>Input</b>	Enter (name of product, original price, price after discount, discount percentage)
<b>Output</b>	The information saved
<b>Description</b>	Admin must login then press add discount then complete the information required
<b>Precondition</b>	admin have an account and log in successfully on system
<b>Postcondition</b>	The offer saved and the user can git this offer

### 30. View pending list

<b>Name</b>	View pending list
<b>Actor</b>	Order coordinator
<b>Input</b>	Press on pending list page
<b>Output</b>	List of pending orders
<b>Description</b>	Order coordinator must login then press on pending list page
<b>Precondition</b>	Order coordinator must to login successfully on system
<b>Postcondition</b>	The order coordinator can view all orders on the pending list

### 31. View feedback

<b>Name</b>	View feedback
<b>Actor</b>	Owner
<b>Input</b>	Press view feedback
<b>Output</b>	List of feedback
<b>Description</b>	owner must login then press view feedback
<b>Precondition</b>	Owner must to login successfully on system
<b>Postcondition</b>	The owner can view the feedback that send to the system

### 32. View system analytics

<b>Name</b>	View system analytics
<b>Actor</b>	Owner
<b>Input</b>	Press view system analytics
<b>Output</b>	Charts on the performance of the system
<b>Description</b>	owner must login then press view system analytics
<b>Precondition</b>	Owner must to login successfully on system
<b>Postcondition</b>	The owner can view some analytics about the sales and number of users and other analytics

### 33. Add delivered list

<b>Name</b>	Add delivered list
<b>Actor</b>	Accountant
<b>Input</b>	The accountant enter number of order and the money received
<b>Output</b>	The money of order saved on system
<b>Description</b>	Accountant must login then he enter money received and the number of order
<b>Precondition</b>	accountant must to login successfully on system
<b>Postcondition</b>	The money saved on system

### 34. Add shipped list

<b>Name</b>	Add shipped list
<b>Actor</b>	Order coordinator
<b>Input</b>	The order coordinator enter number of order
<b>Output</b>	The order is out from pharmacy to user
<b>Description</b>	Order coordinator must login then he enter the number of order
<b>Precondition</b>	Order coordinator must to login successfully on system
<b>Postcondition</b>	The order is out to user

### 35. Add Admin

<b>Name</b>	Add Admin
<b>Actor</b>	Owner
<b>Input</b>	Enter (username – e-mail – password – phone)
<b>Output</b>	The information had saved .
<b>Description</b>	Owner must to login , press add accountant and enter information required and press add.
<b>Precondition</b>	Owner must to login successfully and have the information about the Admin .



<b>Postcondition</b>	The information saved on the system and the Admin added on the system and take permission to access the system .
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### 36. Disable Admin

<b>Name</b>	Disable Admin
<b>Actor</b>	Owner
<b>Input</b>	Choose the Admin and press drop
<b>Output</b>	The Admin deleted from system
<b>Description</b>	Owner must to login and press drop Admin then choose the Admin he wants drop .
<b>Precondition</b>	Owner must to login successfully and have the information about the Admin .
<b>Postcondition</b>	The information of Admin deleted and he can't be able to access the system .

### 37. Forget Password

<b>Name</b>	Forget Password
<b>Actor</b>	User
<b>Input</b>	User inter his email
<b>Output</b>	The system send otp to this email
<b>Description</b>	User forget his password then he click on forget password then the system send otp to this email and then the system ask user about the otp and then the new password.
<b>Precondition</b>	User must have an account and verify his email.
<b>Postcondition</b>	The user create new password.



### 38. Add Comment

<b>Name</b>	Add Comment
<b>Actor</b>	User
<b>Input</b>	User inter his comment to special live session
<b>Output</b>	His comment add to this session
<b>Description</b>	User click on special live session and then click on add comment and then.
<b>Precondition</b>	User must have an account and login.
<b>Postcondition</b>	The comment add.

### 39. Add product to favourite list

<b>Name</b>	Add product to favourite list
<b>Actor</b>	User
<b>Input</b>	User click on button to add product to favourite
<b>Output</b>	Product add to his favourite list
<b>Description</b>	User choose the product and then click on add to favourite.
<b>Precondition</b>	User must have an account and login.
<b>Postcondition</b>	The product add.

### 40. Show comment

<b>Name</b>	Show comment
<b>Actor</b>	User,admin
<b>Input</b>	Press on live session
<b>Output</b>	User and admin can show all comment that but in special live session
<b>Description</b>	User choose the product and then click on add to favourite.
<b>Precondition</b>	User must have an account and login.
<b>Postcondition</b>	The user and admin able to see all comment in special session



## 41. Show Cart

<b>Name</b>	Show Cart
<b>Actor</b>	User
<b>Input</b>	Press on cart icon
<b>Output</b>	Show all product that added to cart
<b>Description</b>	User click on cart icon and then he can see all product that he added to his cart
<b>Precondition</b>	User must have an account and login.
<b>Postcondition</b>	The user able to see all product that added to cart

## 42. Update cart

<b>Name</b>	Update cart
<b>Actor</b>	User
<b>Input</b>	Press on increase or decrease
<b>Output</b>	The quantity of product in cart changed
<b>Description</b>	User click on cart icon and then he can see all product that he added to his cart and then can increase or decrease the quantity of product I cart
<b>Precondition</b>	User must have an account and login.
<b>Postcondition</b>	The user able to update quantity of product in cart

## 43. View product discount

<b>Name</b>	View product discount
<b>Actor</b>	User
<b>Input</b>	Scroll to discount part
<b>Output</b>	Show all product that have discount
<b>Description</b>	User scroll to discount part and he can see all product that have discount
<b>Precondition</b>	User must have an account and login.



<b>Postcondition</b>	The user able to see all product that have discount
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#### 44. Show List of favourite

<b>Name</b>	Show List of favourite
<b>Actor</b>	User
<b>Input</b>	Press on favourite icon
<b>Output</b>	Show all favourite product
<b>Description</b>	User click on favourite icon and then he can see all product that he added to his favourite
<b>Precondition</b>	User must have an account and login successfully.
<b>Postcondition</b>	The user able to update quantity of product in cart

#### 45. View notification of expire

<b>Name</b>	View notification of expire
<b>Actor</b>	Admin,owner
<b>Input</b>	
<b>Output</b>	notification to admin and owner about the product that the expire date
<b>Description</b>	System send notification to admin and owner about the product that the expire date less than three months
<b>Precondition</b>	Admin,owner must login successfully.
<b>Postcondition</b>	The admin,owner able to see the product that will be expire soon

#### 46. View notification of reorder

<b>Name</b>	View notification of reorder
<b>Actor</b>	Admin,owner
<b>Input</b>	



<b>Output</b>	notification to admin and owner about the product that reach reorder point
<b>Description</b>	System send notification to admin and owner about the product that reach reorder point
<b>Precondition</b>	Admin, owner must login successfully.
<b>Postcondition</b>	The admin,owner able to see the product that reach to reorder points

## 47. Disable product

<b>Name</b>	Disable product
<b>Actor</b>	Admin
<b>Input</b>	Press button disable
<b>Output</b>	Product disable successfully
<b>Description</b>	Admin choose the product that he want to make disable and then press on button disable
<b>Precondition</b>	Admin must have an active account and login successfully and product must be exit.
<b>Postcondition</b>	The product disable form the system and user can't able to see the product on the system

## 48. Drop dose calculator

<b>Name</b>	Drop dose calculator
<b>Actor</b>	Admin
<b>Input</b>	Press button delete
<b>Output</b>	dose calculator drop successfully
<b>Description</b>	Admin choose the dose calculator that he want to make drop and then press on button delete
<b>Precondition</b>	Admin must have an active account and login successfully and dose calculator must be exit.

<b>Postcondition</b>	The dose calculator dropped form the system and user can't able to see the dose calculator on the system
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## 49. Drop doctor

<b>Name</b>	Drop doctor
<b>Actor</b>	Admin
<b>Input</b>	Press button delete
<b>Output</b>	Doctor drop successfully
<b>Description</b>	Admin choose the doctor that he want to make drop and then press on button delete
<b>Precondition</b>	Admin must have an active account and login successfully and data of doctor must be exit.
<b>Postcondition</b>	The doctor dropped form the system and user can't able to see the data of doctor on the system

## 50. Update doctor

<b>Name</b>	Update doctor
<b>Actor</b>	Admin
<b>Input</b>	Press button update
<b>Output</b>	Doctor updated successfully
<b>Description</b>	Admin choose the doctor that he want to make update to his data and then press on button update and after that change data and press save
<b>Precondition</b>	Admin must have an active account and login and data of doctor must be exit.
<b>Postcondition</b>	The doctor updated on the system and user can able to see the data of doctor after update on the system

## 51. Add news

<b>Name</b>	Add news
<b>Actor</b>	Admin
<b>Input</b>	Enter (title, photo, description).
<b>Output</b>	News added successfully.
<b>Description</b>	Admin press on add news and then enter the information required and press add.
<b>Precondition</b>	Admin must to login successfully and have information required.
<b>Postcondition</b>	The news added on the system and user can able to see the data of news.

## 52. Update news

<b>Name</b>	Update news
<b>Actor</b>	Admin
<b>Input</b>	Press on button update.
<b>Output</b>	News updated successfully.
<b>Description</b>	Admin chose the news and then press on update news and then enter the information want to change and press update.
<b>Precondition</b>	Admin must to login successfully and news must be exit.
<b>Postcondition</b>	The news updated on the system and user can able to see the data of news after update.

## 53. Drop news

<b>Name</b>	Drop news
<b>Actor</b>	Admin
<b>Input</b>	Press on button delete.
<b>Output</b>	News deleted successfully.



<b>Description</b>	Admin chose the news and then press on delete news.
<b>Precondition</b>	Admin must to login successfully and news must be exit.
<b>Postcondition</b>	The news deleted from the system and user can't able to see the data of news.

#### 54. Update lab

<b>Name</b>	Update lab
<b>Actor</b>	Admin
<b>Input</b>	Press on button update.
<b>Output</b>	Lab updated successfully.
<b>Description</b>	Admin chose the lab and then press on update lab and then enter the information want to change and press update.
<b>Precondition</b>	Admin must to login successfully and lab must be exit.
<b>Postcondition</b>	The lab updated on the system and user can able to see the data of lab after update.

#### 54. Drop lab

<b>Name</b>	Drop lab
<b>Actor</b>	Admin
<b>Input</b>	Press button delete
<b>Output</b>	lab drop successfully
<b>Description</b>	Admin choose the lab that he want to make drop and then press on button delete
<b>Precondition</b>	Admin must have an active account and login successfully and data of lab must be exit.
<b>Postcondition</b>	The lab dropped form the system and user can't able to see the data of lab on the system



## 55. Disable live session

<b>Name</b>	Disable live session
<b>Actor</b>	Admin
<b>Input</b>	Press button disable
<b>Output</b>	Live session disable successfully
<b>Description</b>	Admin choose the live that he want to make disable and then press on button disable
<b>Precondition</b>	Admin must have an active account and login successfully and data of live session must be exit.
<b>Postcondition</b>	The live session disable on the system and user can't able to see the data of live session on the system

## 56. Add type of product

<b>Name</b>	Add type of product
<b>Actor</b>	Admin
<b>Input</b>	Enter(type, photo)
<b>Output</b>	Type added successfully
<b>Description</b>	Admin press on add type and then enter information required and then press add
<b>Precondition</b>	Admin must have an active account, login successfully, and have information required.
<b>Postcondition</b>	The type added on the system and user can able to see the data of type of product on the system

## 57. Update type of product

<b>Name</b>	Update type of product
<b>Actor</b>	Admin
<b>Input</b>	Press on button update.
<b>Output</b>	type updated successfully.



<b>Description</b>	Admin chose the type of product and then press on update type and then enter the information want to change and press update.
<b>Precondition</b>	Admin must to login successfully and type must be exit.
<b>Postcondition</b>	The type updated on the system and user can able to see the data of type after update.

## 58. Update announcement

<b>Name</b>	Update announcement
<b>Actor</b>	Admin
<b>Input</b>	Press on button update.
<b>Output</b>	Announcement updated successfully.
<b>Description</b>	Admin chose the announcement and then press on update announcement and then enter the information want to change and press update.
<b>Precondition</b>	Admin must to login successfully and announcement must be exit.
<b>Postcondition</b>	The announcement updated on the system and user can able to see the data of announcement after update.

## 59. Drop announcement

<b>Name</b>	Drop announcement
<b>Actor</b>	Admin
<b>Input</b>	Press button delete
<b>Output</b>	Announcement drop successfully
<b>Description</b>	Admin choose the announcement that he want to make drop and then press on button delete
<b>Precondition</b>	Admin must have an active account and login successfully and data of announcement must be exit.

<b>Postcondition</b>	The announcement dropped from the system and user can't able to see the data of announcement on the system
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## 2.4.5 Non-Functional Requirements:

There are a lot of software requirements specifications included in the non-functional requirements of this System, which contains various processes, namely Availability, Usability, Reliability, Security, Efficiency, Evaluability, and Database Security.

### Availability Requirement

The system will be available to its users at any time whenever they want, in case of hardware or database delay backups will be retrieved from application data folder.

### Usability Requirement

The web site is designed for user friendly environment and ease of use for users to interact with it.

### Reliability Requirement

The system should provide a reliable environment to both customers and Admin. All orders should be reaching at the admin without any errors.

### Security Requirement

Security requirement is very important in this project, including privacy. The administrator should provide high security interface for user and protect their personal data.

There should be proper security regarding to the accessing of data by unauthorized user.

Users of the system shall authenticate by logging to the system with their accounts.

## Efficiency Requirement

When an Online Pharmacy Store implemented customer can purchase product in an efficient manner.

## Evolvability Requirement

The system shall be easily extensible and evolvable

## Database Security Requirement

Unauthorized person cannot access the panel and database, do not read and write the information.

## 2.5 Advantages of the new system

It is very easy to order prescription drugs through E-Pharmacy. Especially for people who live far away from a traditional pharmacy, the elderly, disabled people, and those who work very intensively, this system is both a very easy and a very fast method of obtaining medicine.

Another advantage offered by E-Pharmacy is privacy and confidentiality. This system provides great convenience especially for those who are afraid of talking face to face with doctors and pharmacists. In addition, people can order medications without any drawback on special issues.

E-Pharmacy, which offers a much wider range of options than a traditional pharmacy, provides a great advantage to patients. It is not possible to find every medicine in a physical pharmacy in a particular area, but there are many more medicine options available in general medicine stores.

Some online pharmacies share useful information about medicines and illnesses, as well as important medical resources.

Most legal stores that work with E-Pharmacy have a medicine verification process. These stores request a prescription from patient, this questionnaire is reviewed by a doctor before being distributed.

## 2.6 Risk

There is no doubt that the online pharmacies can be of great benefit for the patients in some instances.

Sometimes the pharmacist-patient interaction is usually less focused in an online environment.

In most of the cases, patients are unable to identify differences in the medicine.

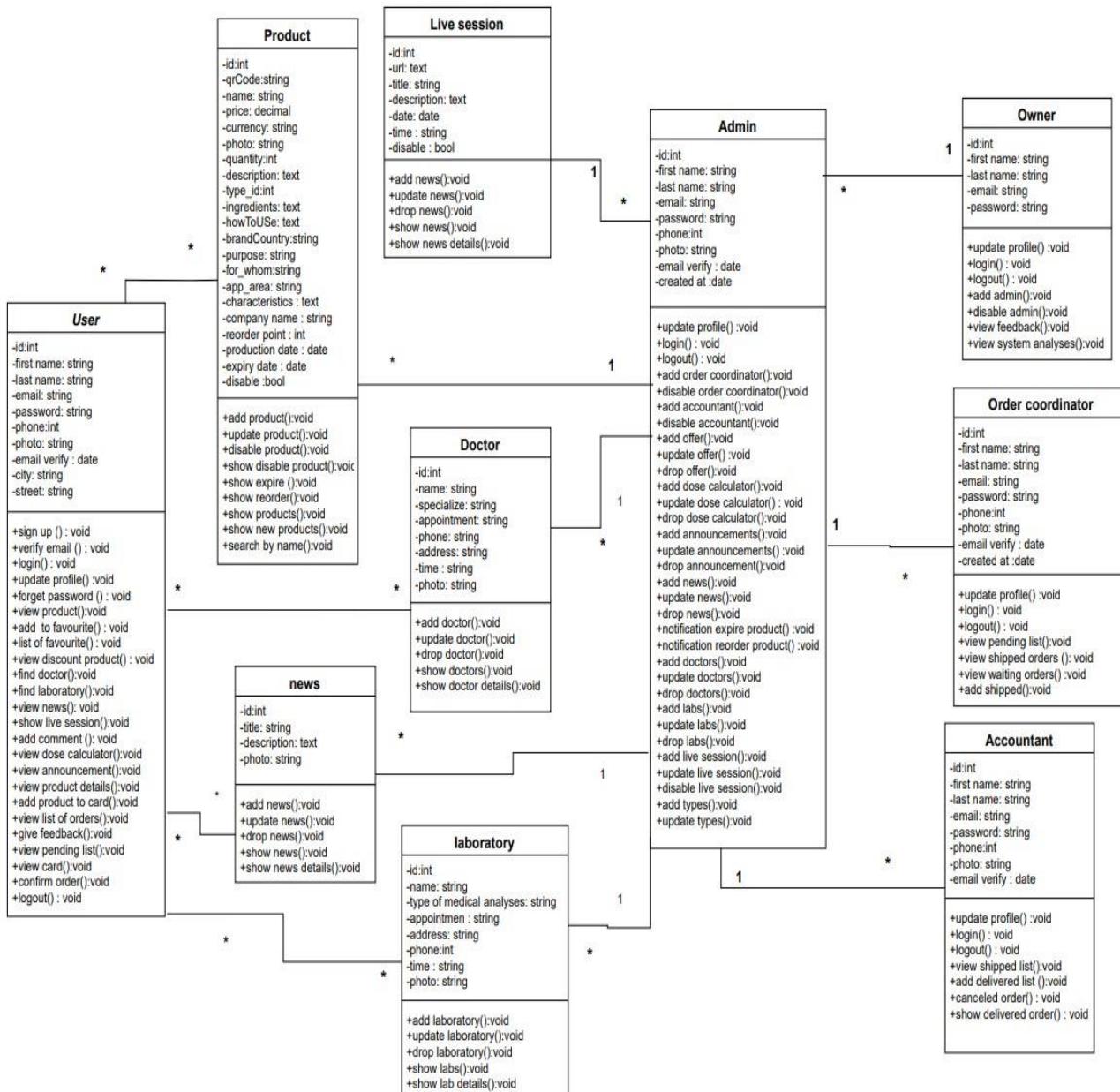
The provision of the advice to the patients about health and the safe dosage, administration, side-effects and interactions of the medications they ask for,

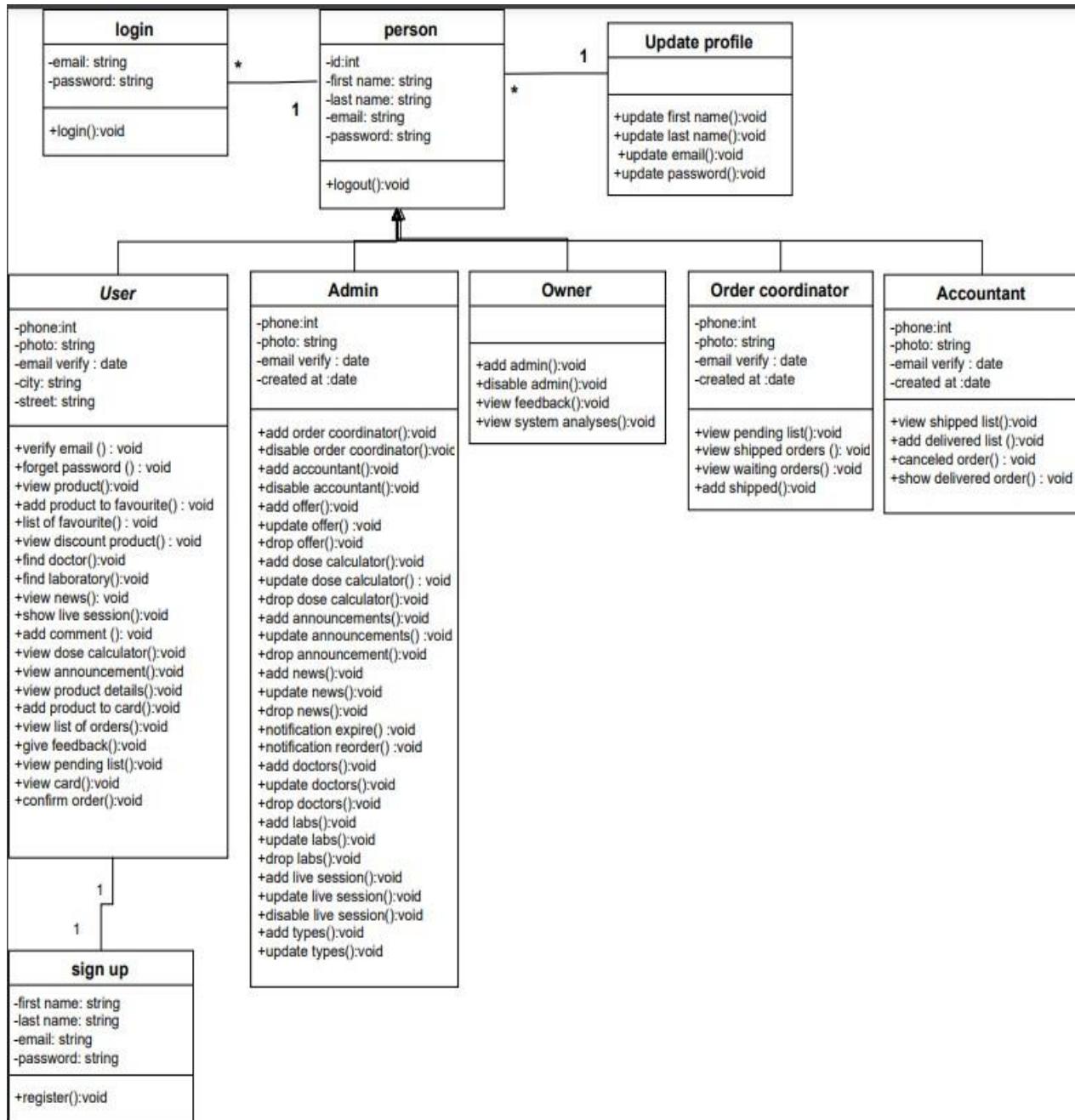
whether over the counter or, is one of the central roles of the pharmacist. It is important that this is not compromised with the putting into practice of the online pharmacy business model.

Customer Satisfaction is Similar to any other business, the success of an online pharmacy joins the satisfaction of the patients who make use of their services, because this only can ensure the ongoing viability of the business.

# Chapter 3

## Class Diagram

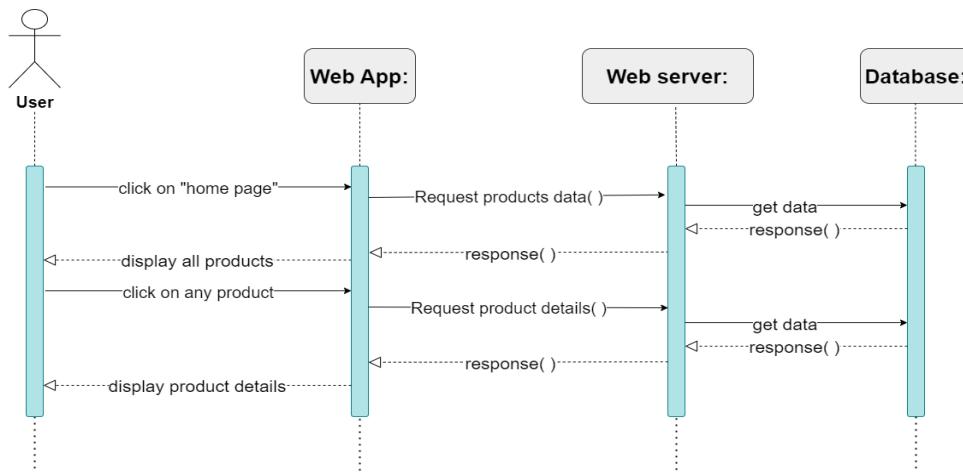




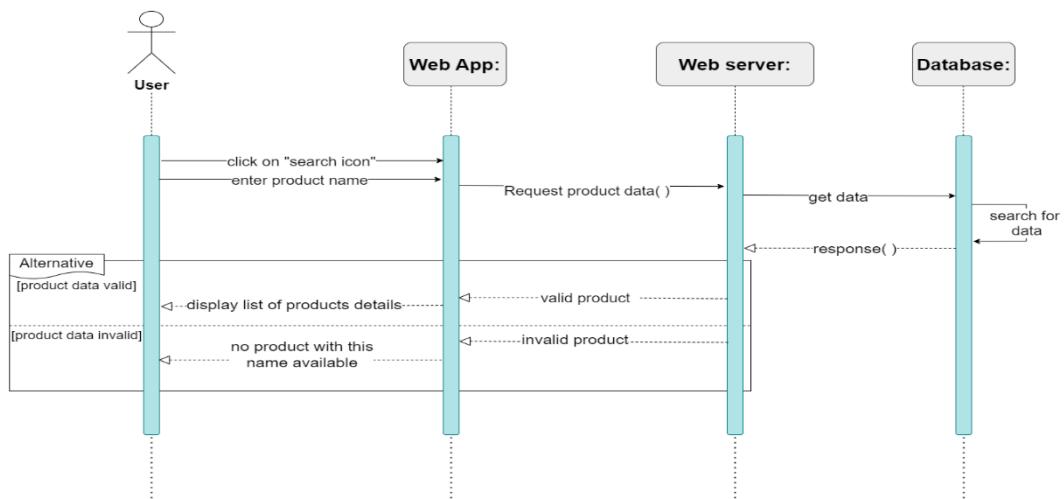
## Sequence Diagram

- User

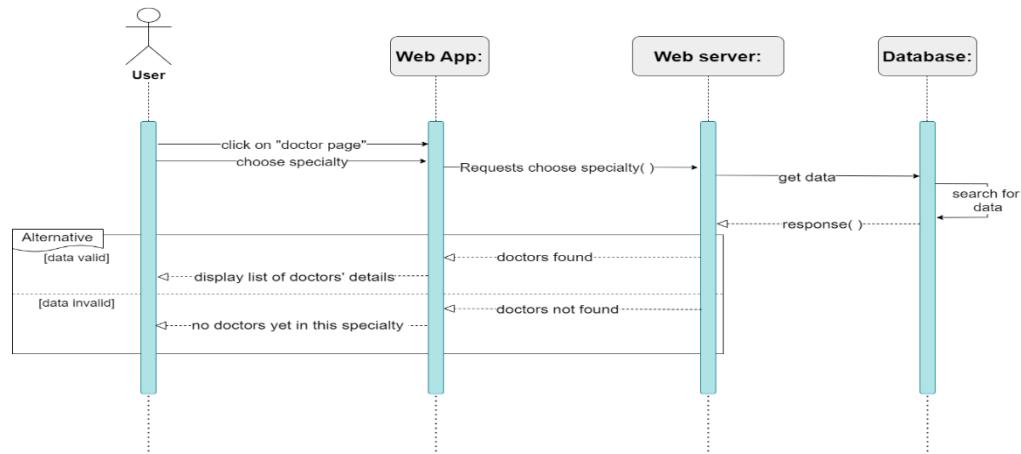
- View Product



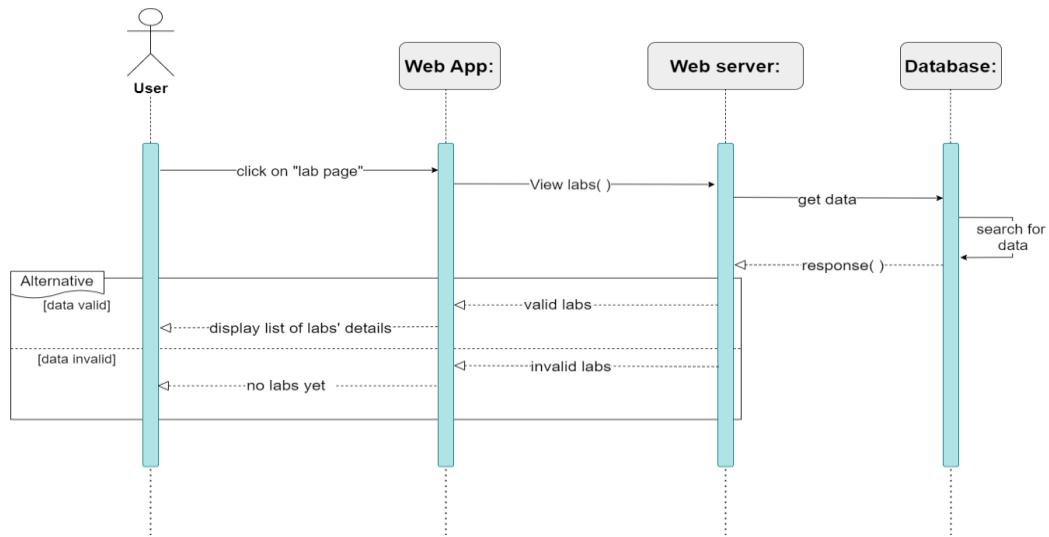
- Search Product



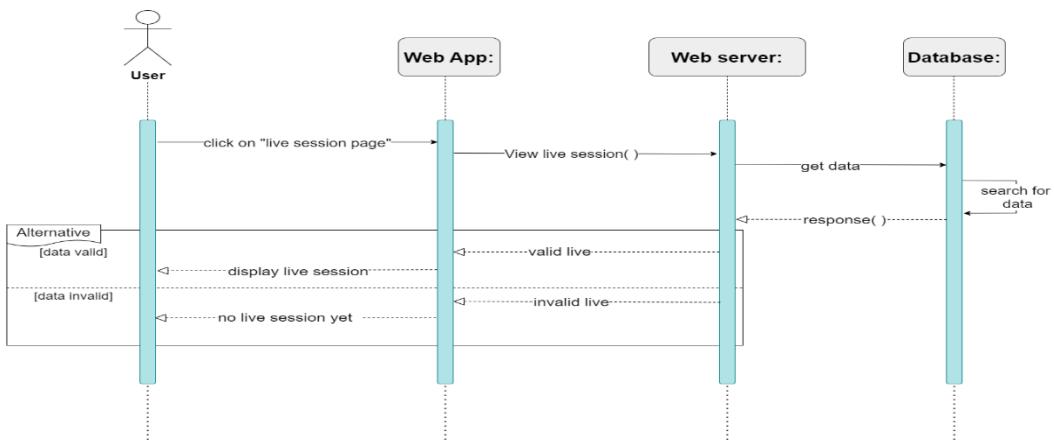
- View Doctor



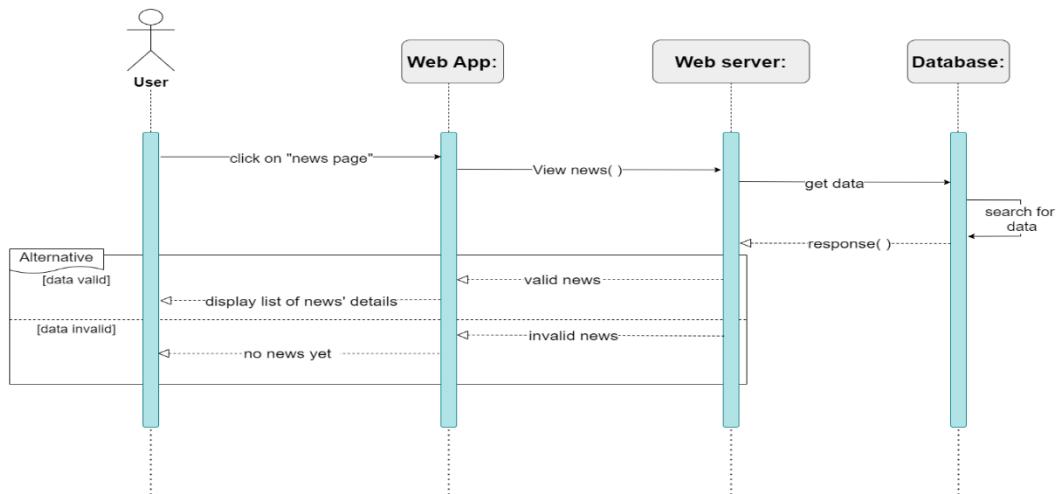
- View Lab



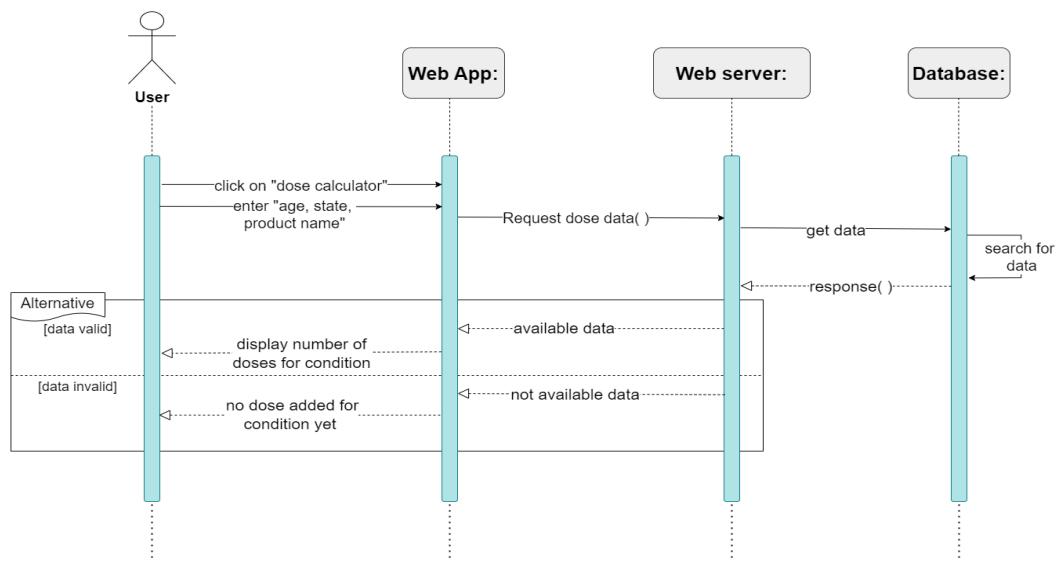
- View Live Session



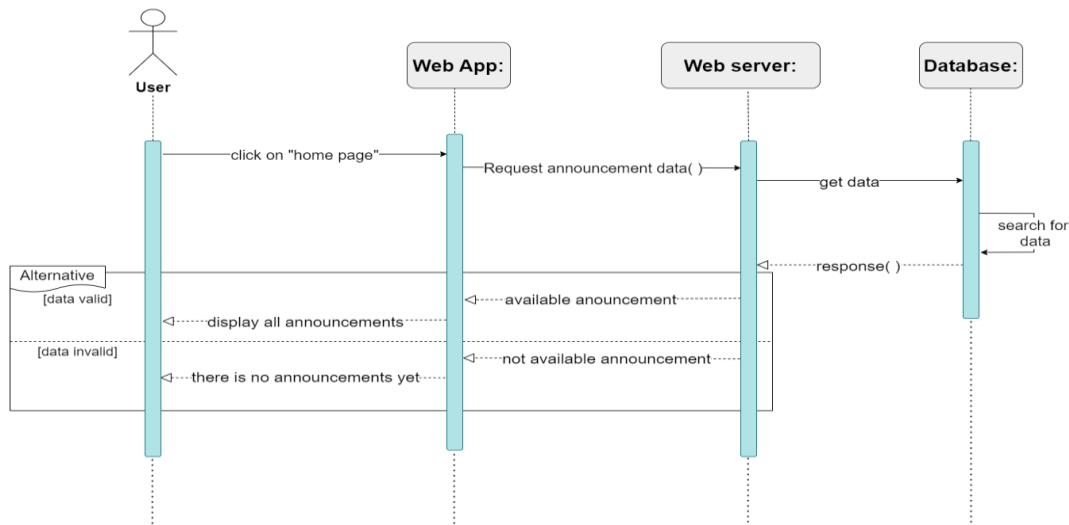
- View News



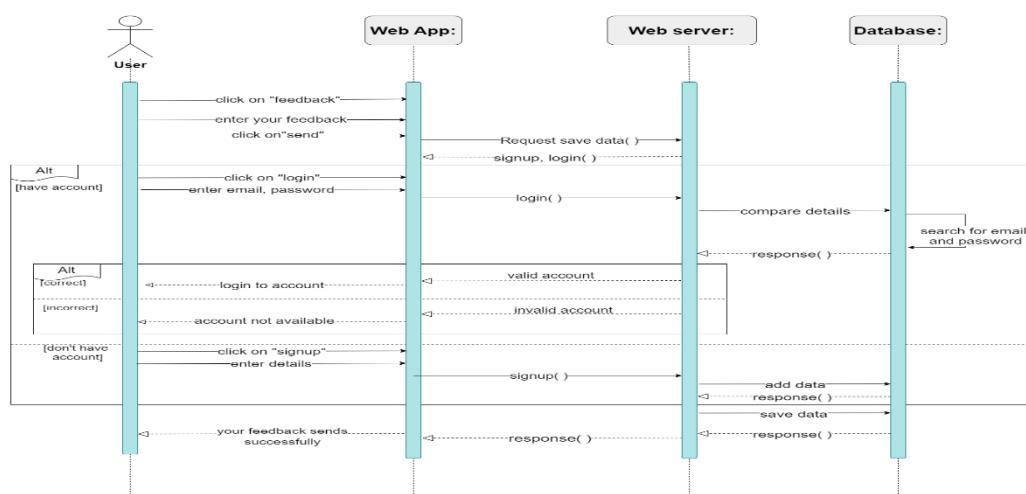
- Dose Calculator



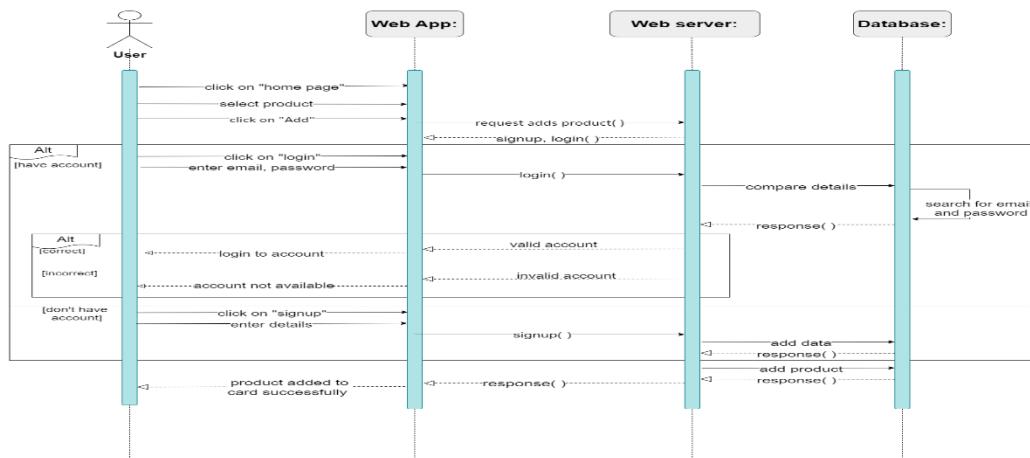
- View Announcement



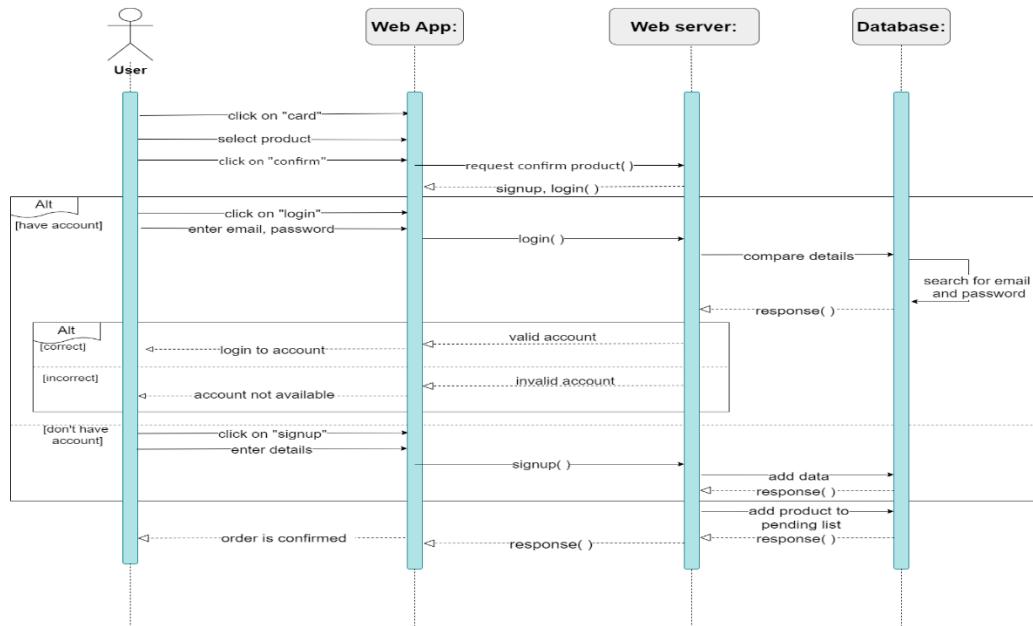
- Give Feedback



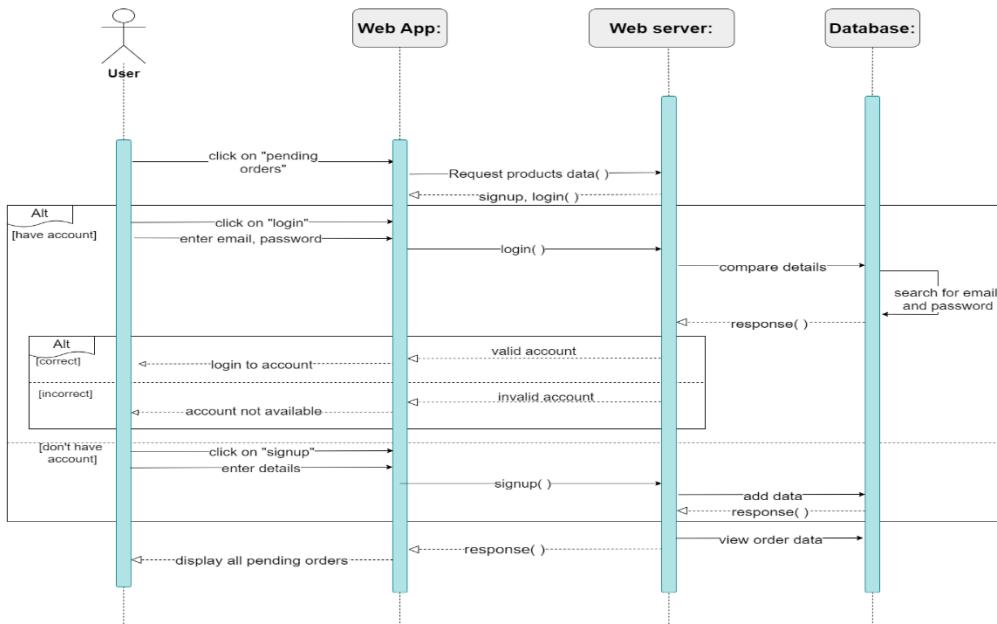
- Add Product To Cart



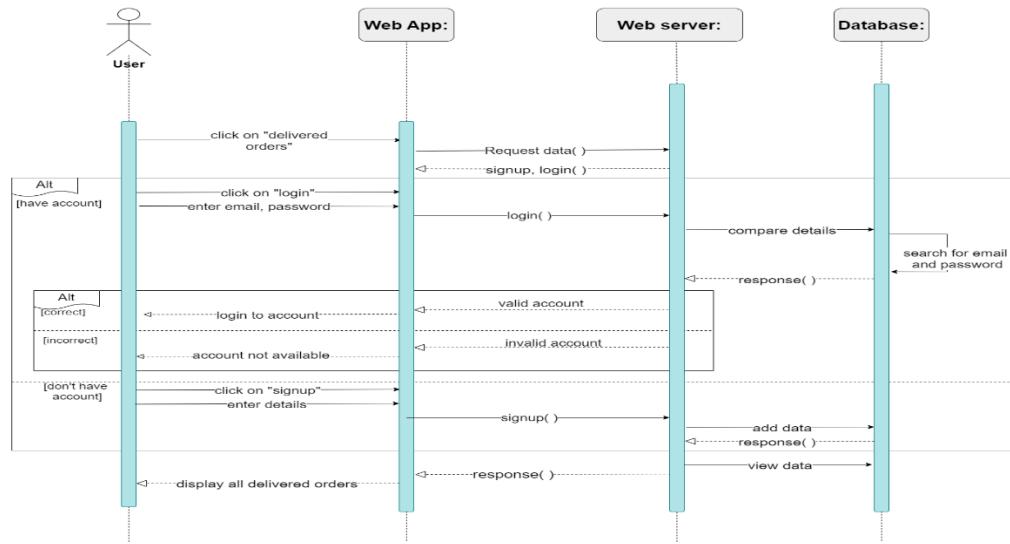
- Confirm Order



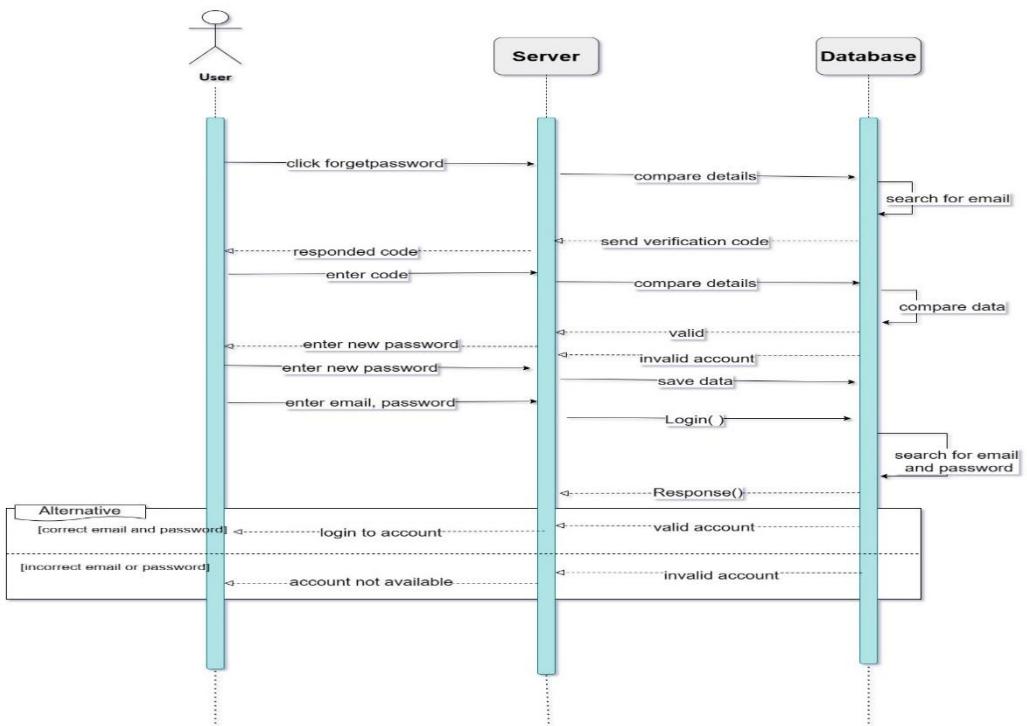
- List of Pending Orders



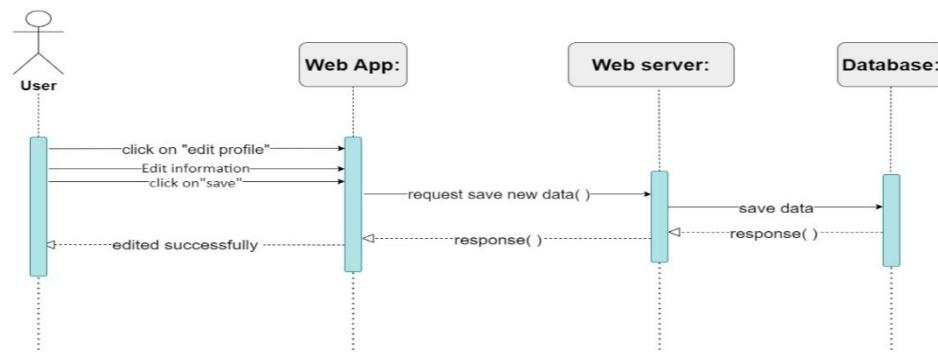
- List of delivered orders



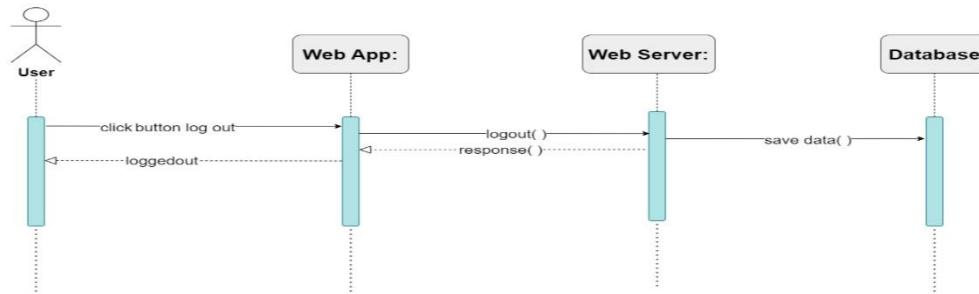
- Forget Password



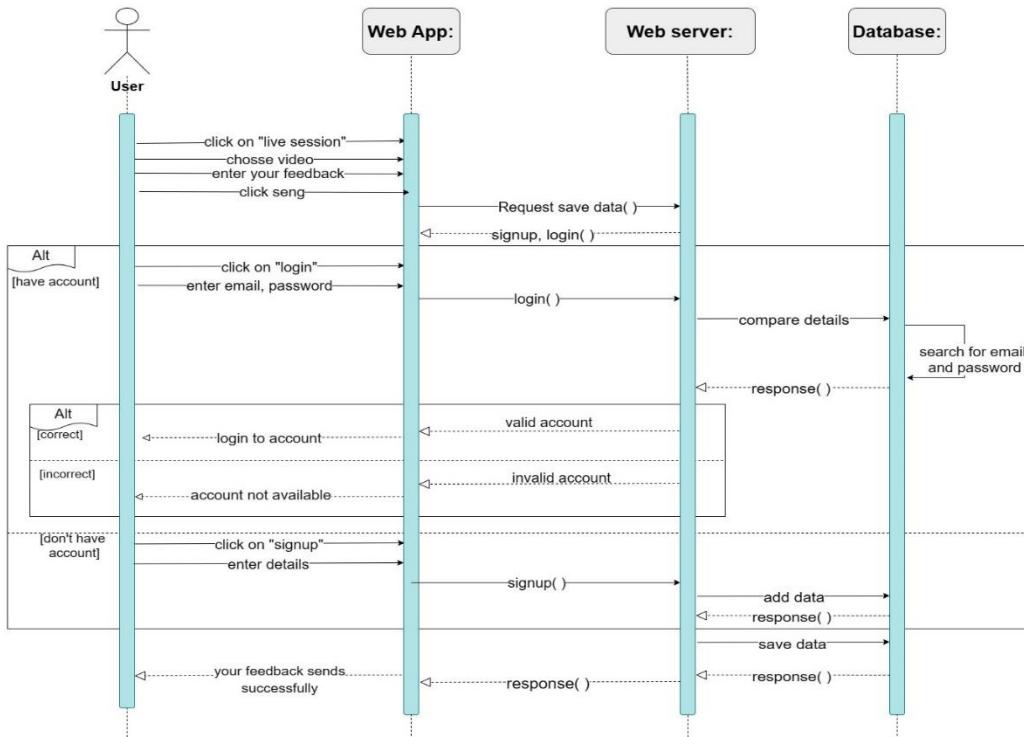
- Edit Profile



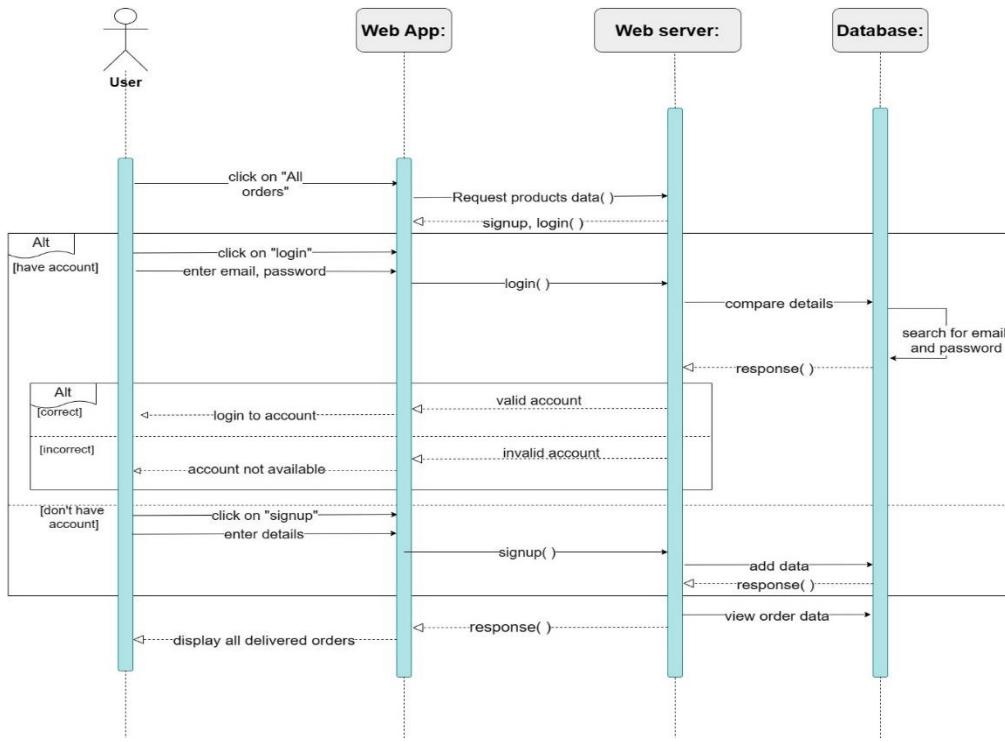
- Logout



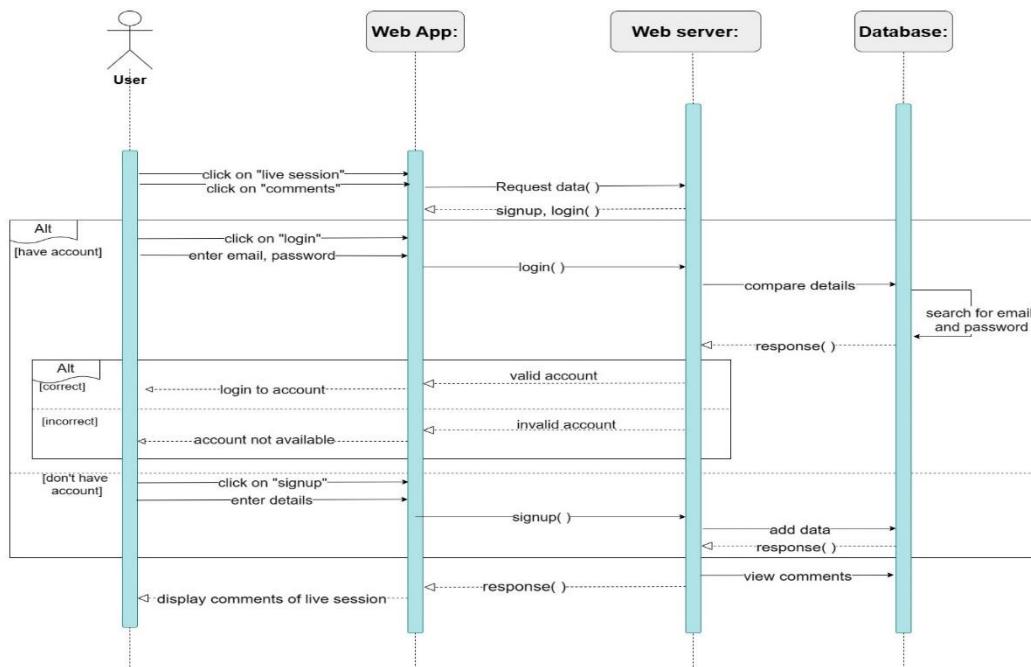
- Add comment to live session



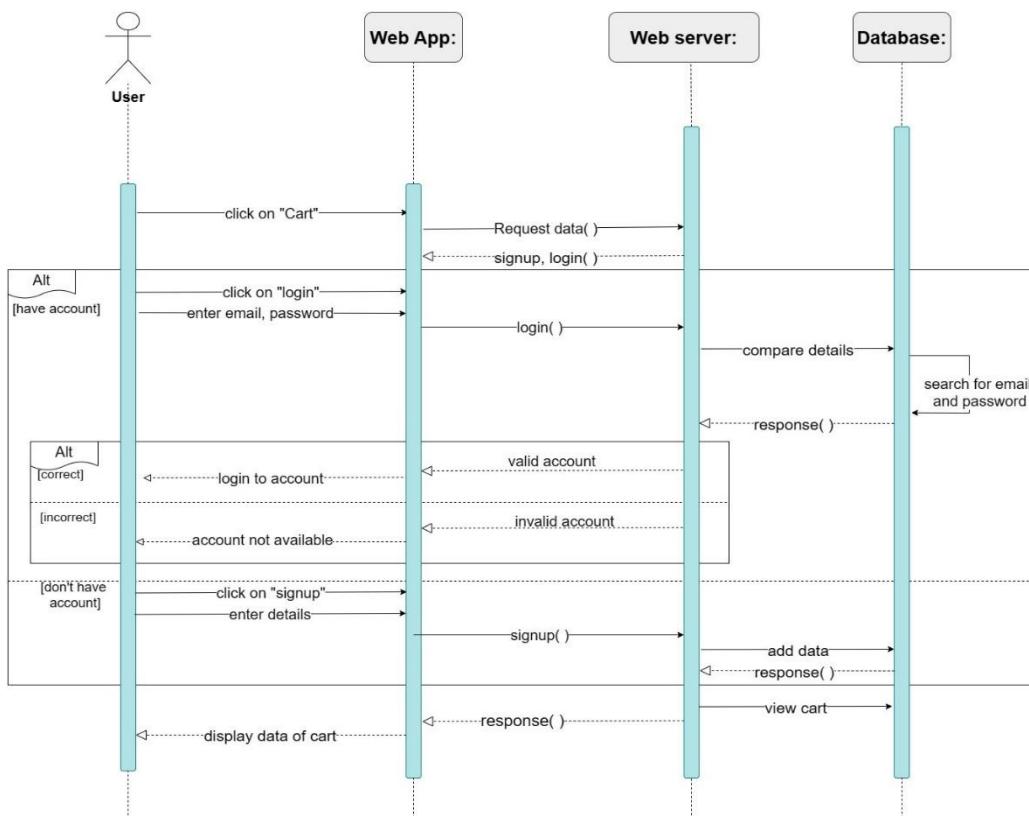
- View List of All Orders



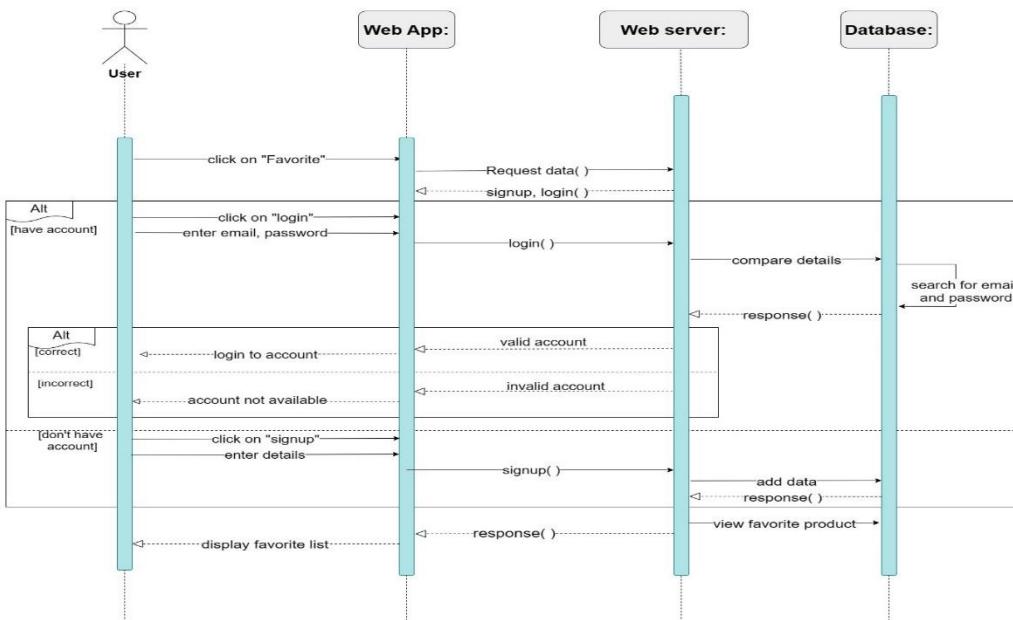
- View Comments of Live Session



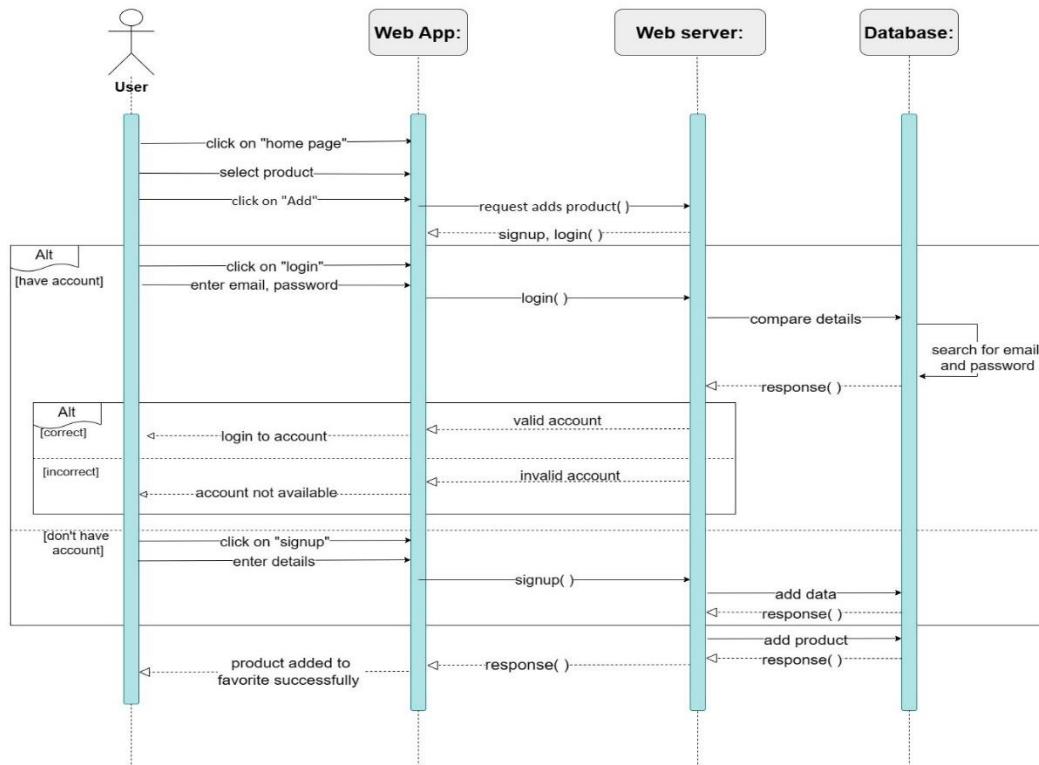
- View Cart



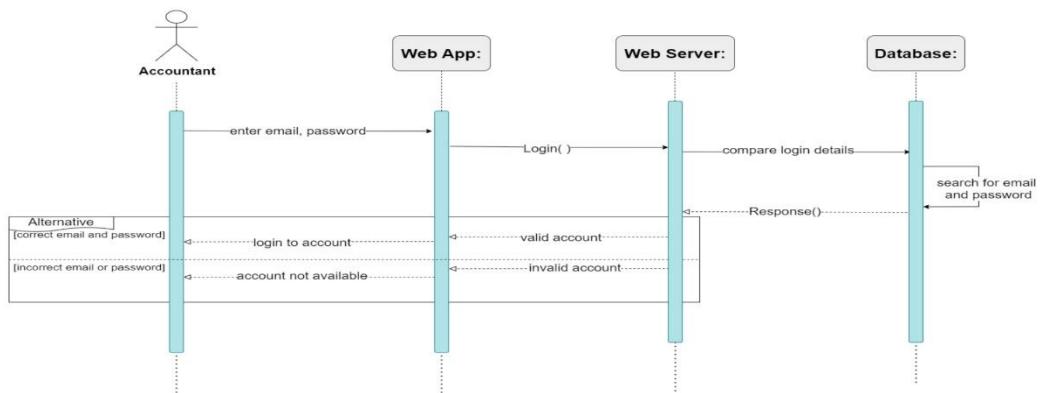
- View Favourite List



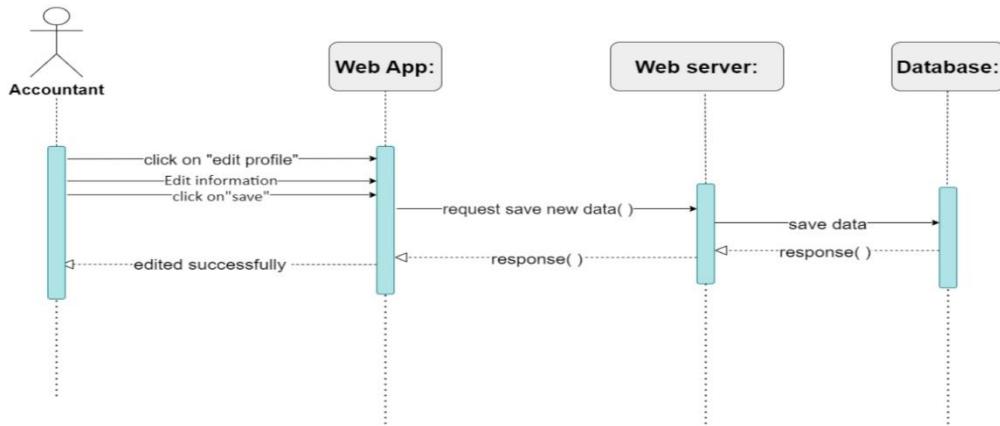
- Add Product to Favourite List



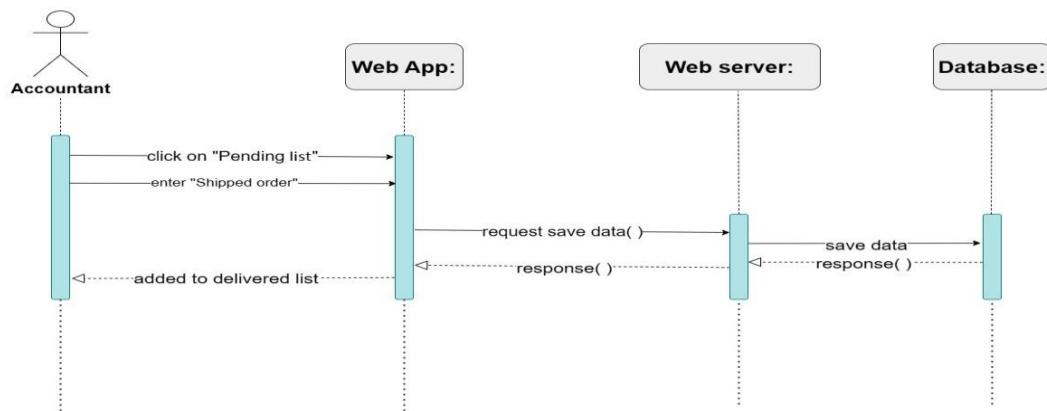
- Accountant
- Login



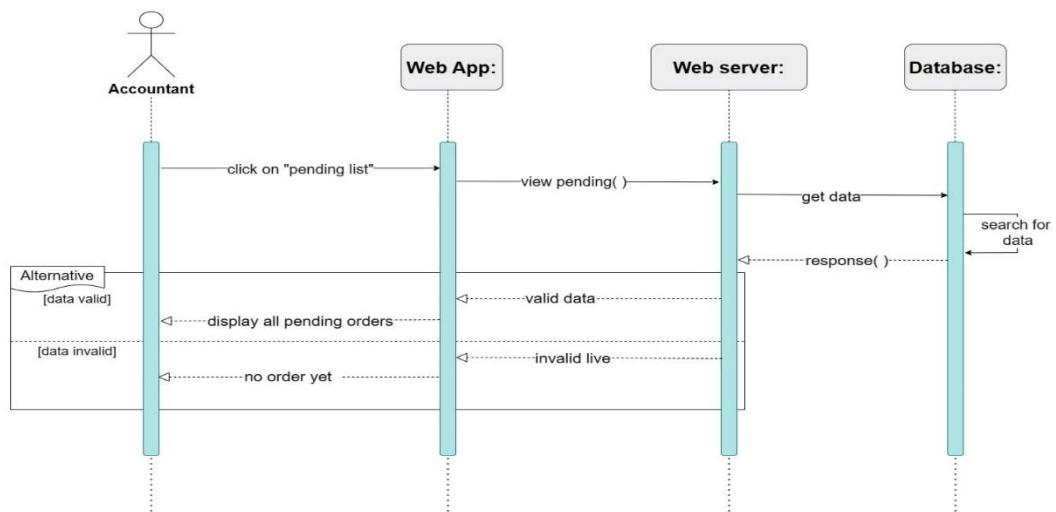
- Edit Profile



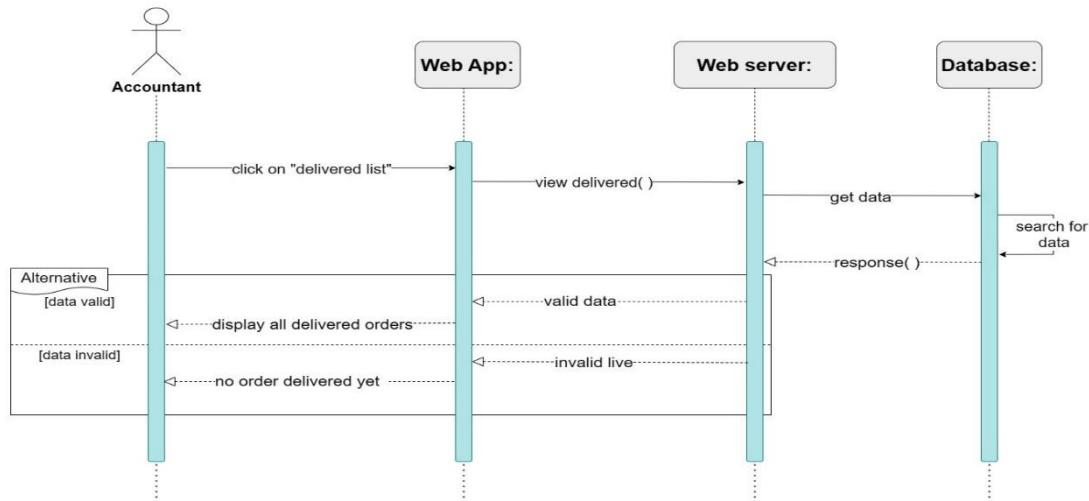
- Shipped Orders



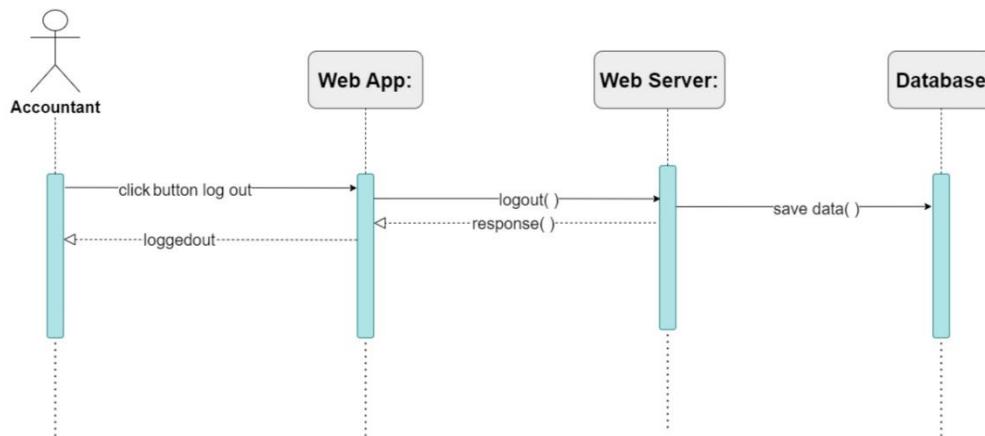
- View List of Pending Orders



- View List of Delivered Orders

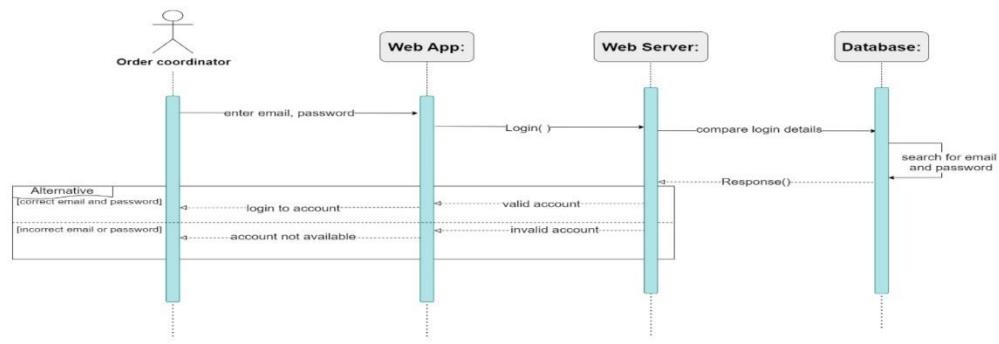


- Logout

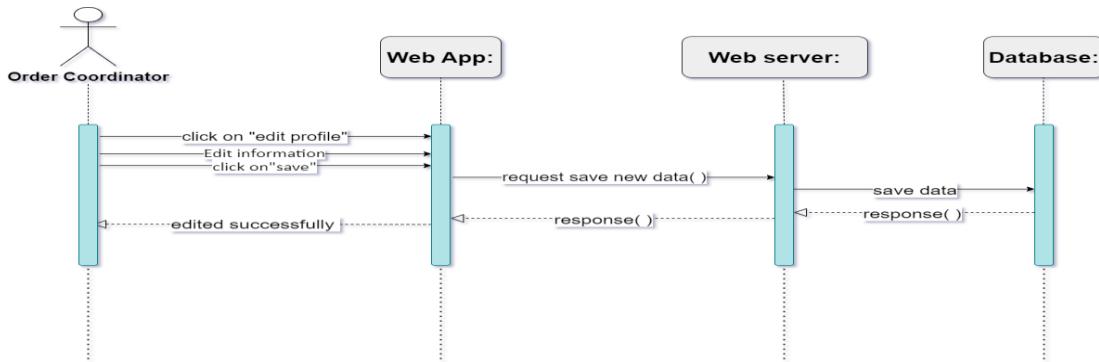


- Order Coordinator

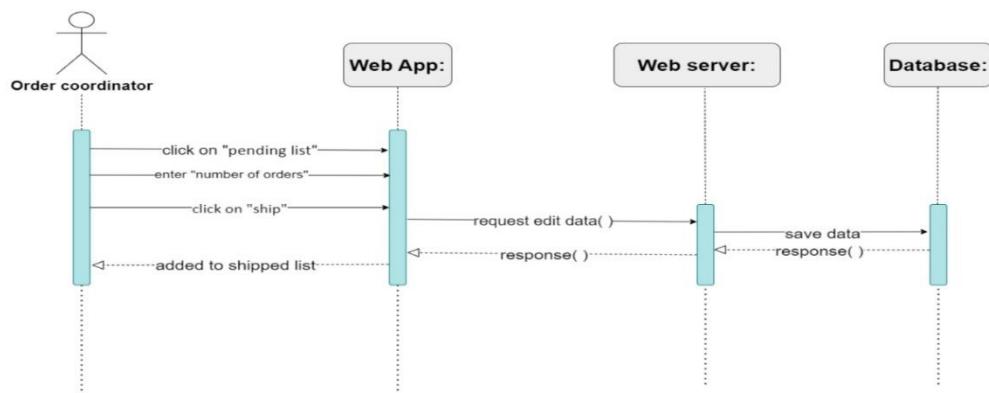
- Login



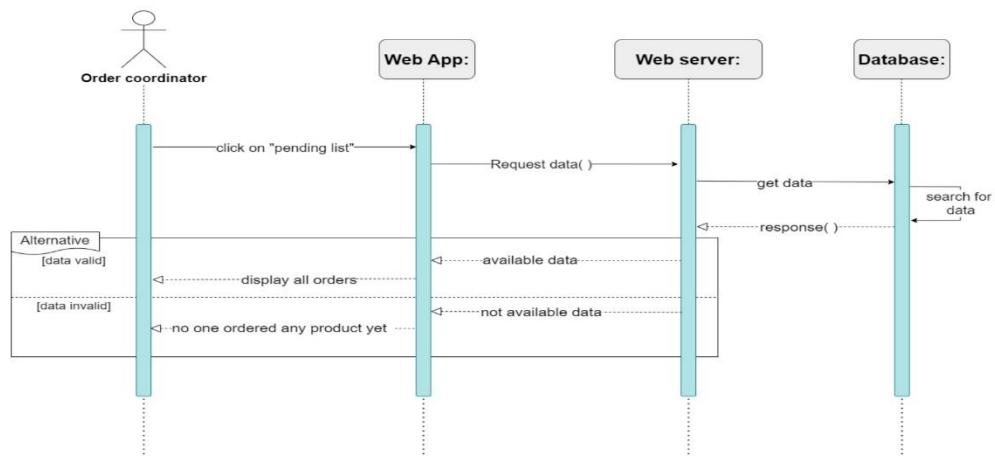
- Edit Profile



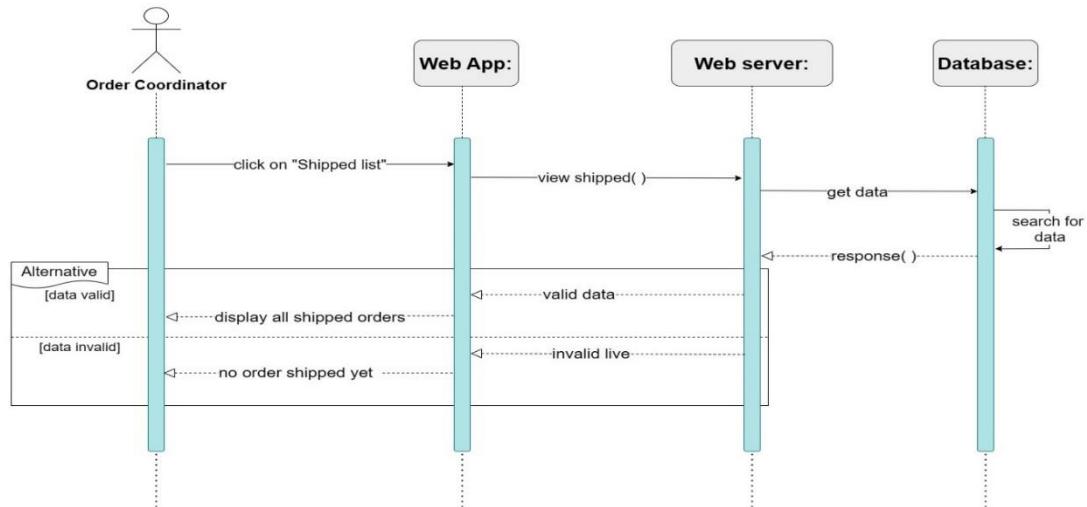
- Add Orders to Shipped List



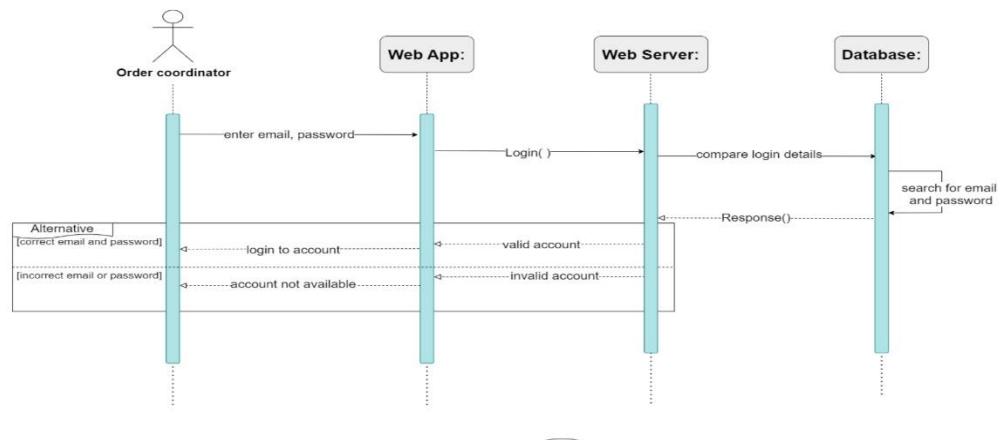
- View List of Pending Orders



- View List of Shipped Orders

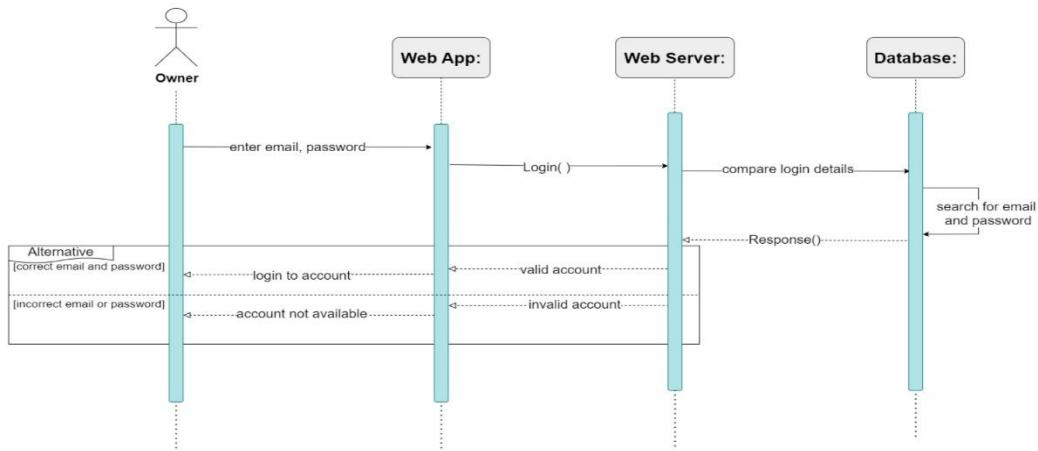


- Logout

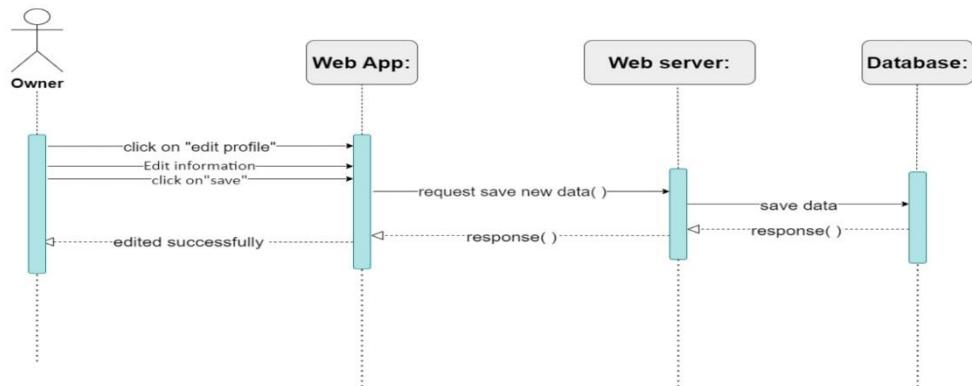


- Owner

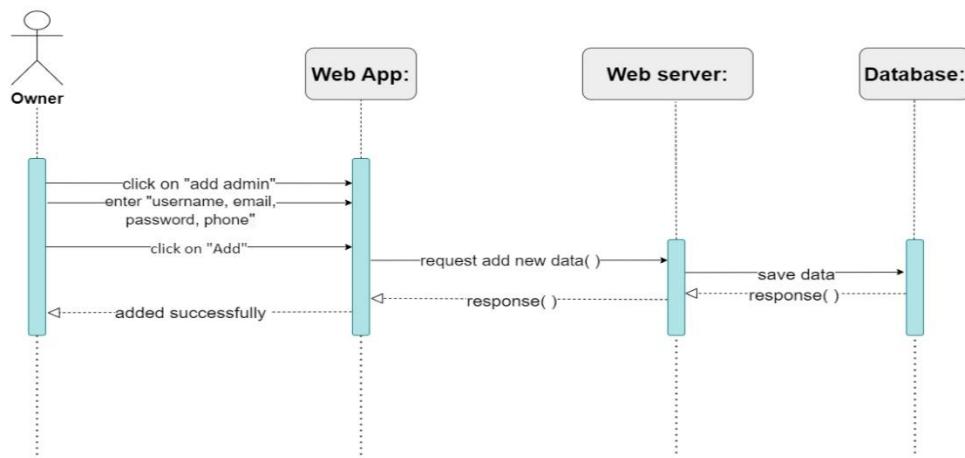
- Login



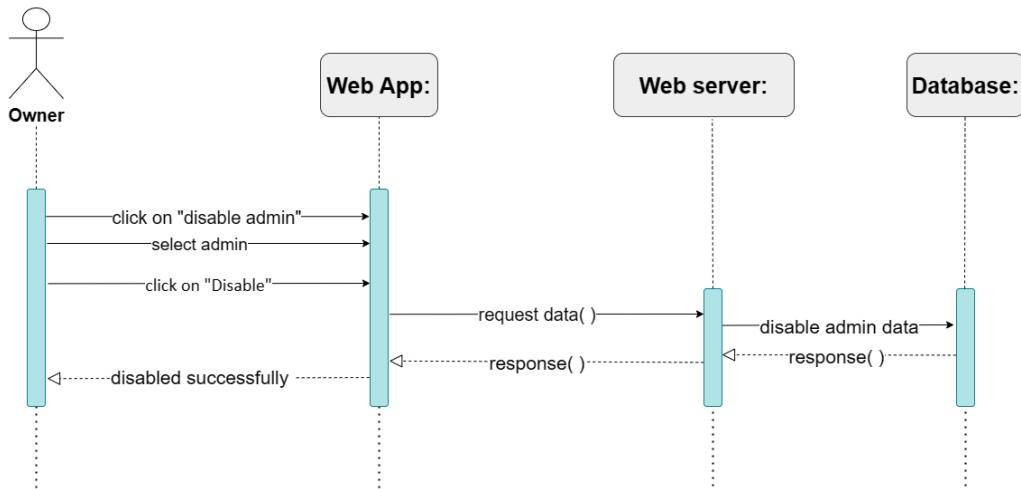
- Edit Profile



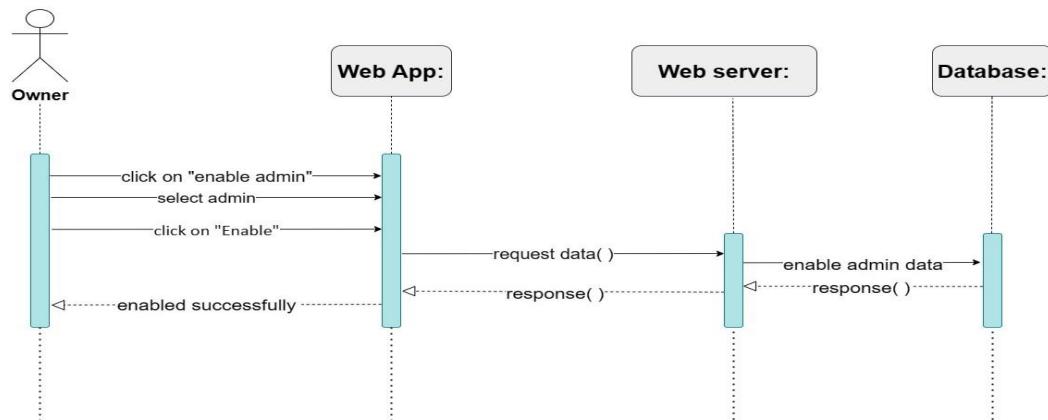
- Add Admin



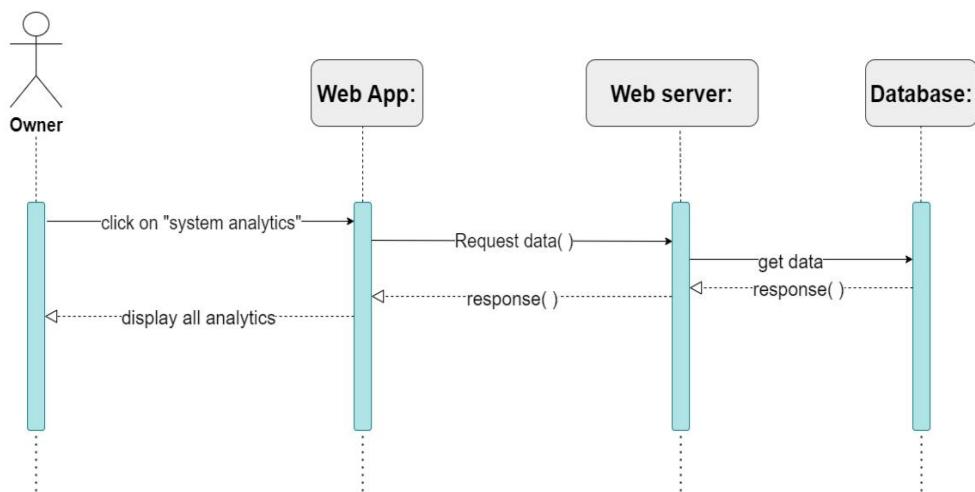
- Disable Admin



- Enable Admin

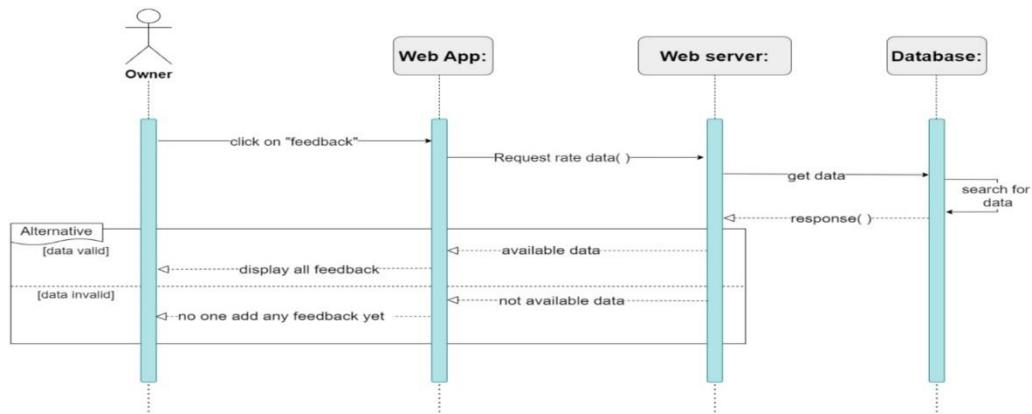


- View System Analytics

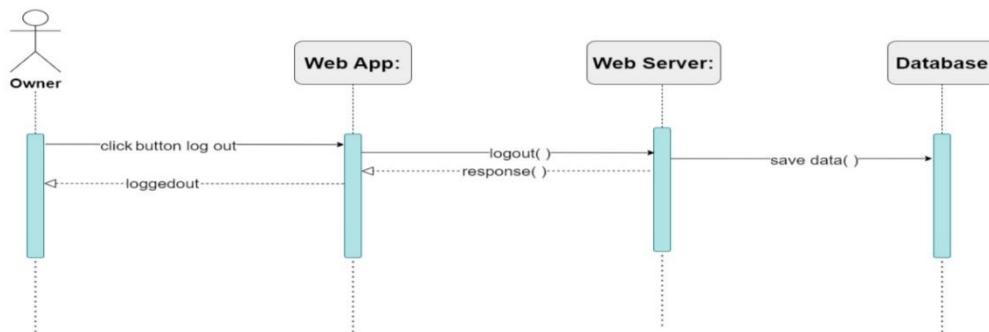




- View Feedback

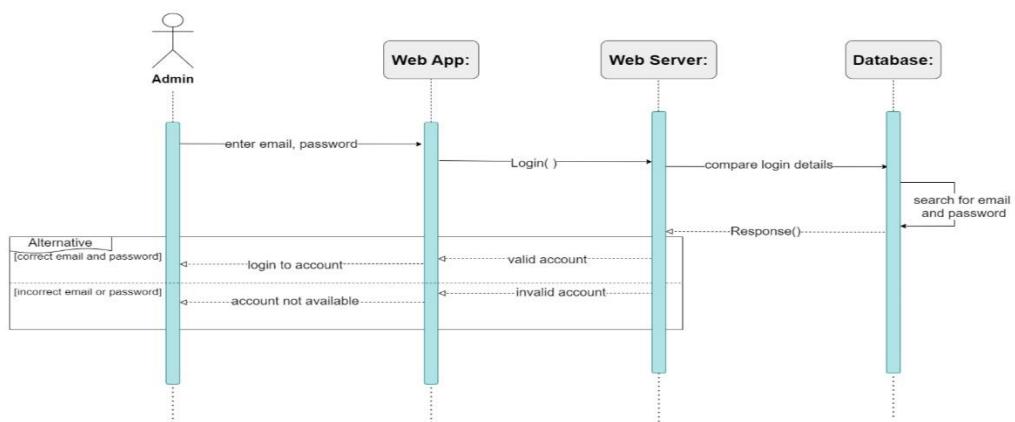


- Logout

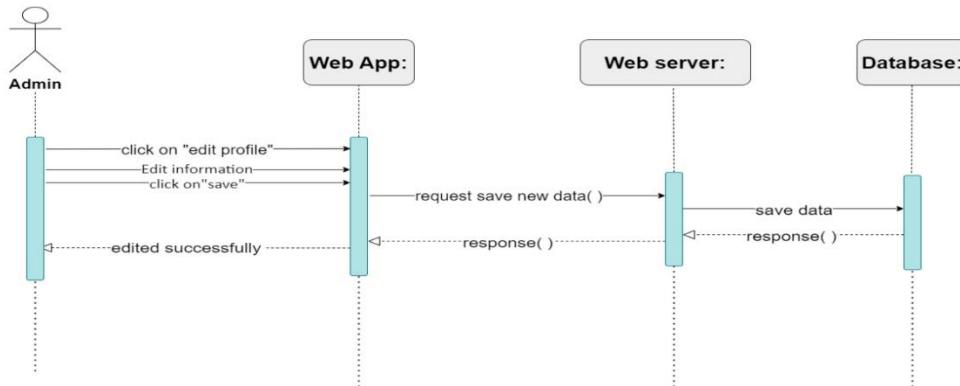


- Admin

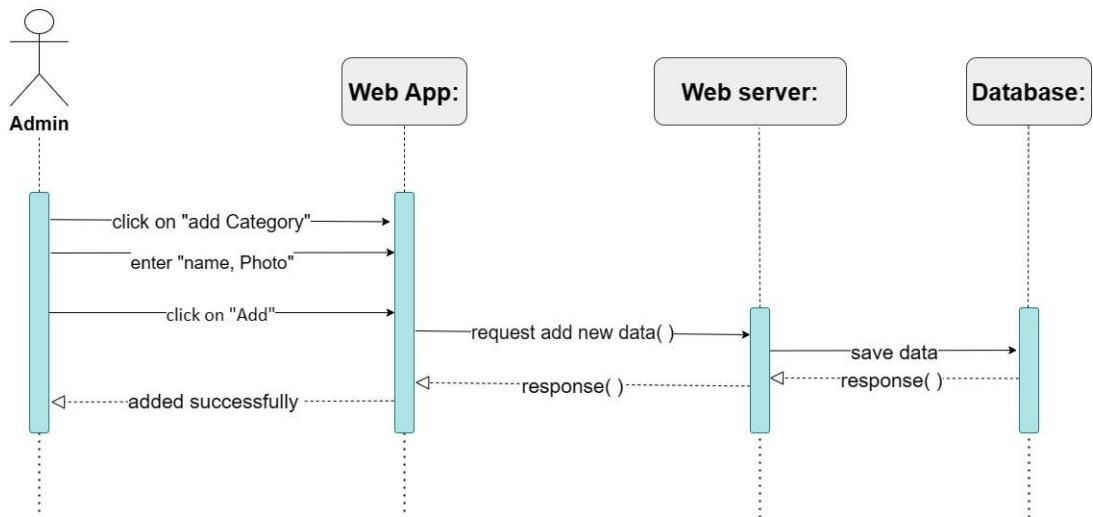
- Login



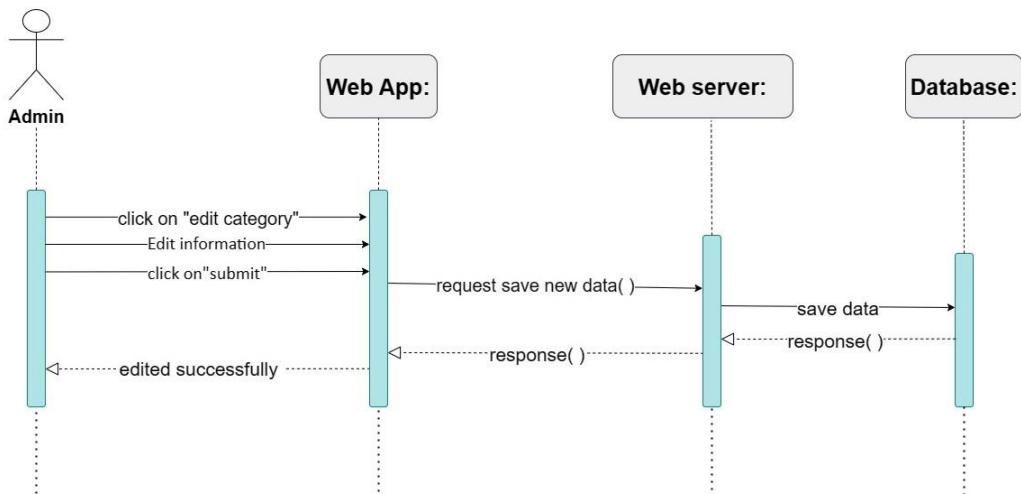
- Edit Profile



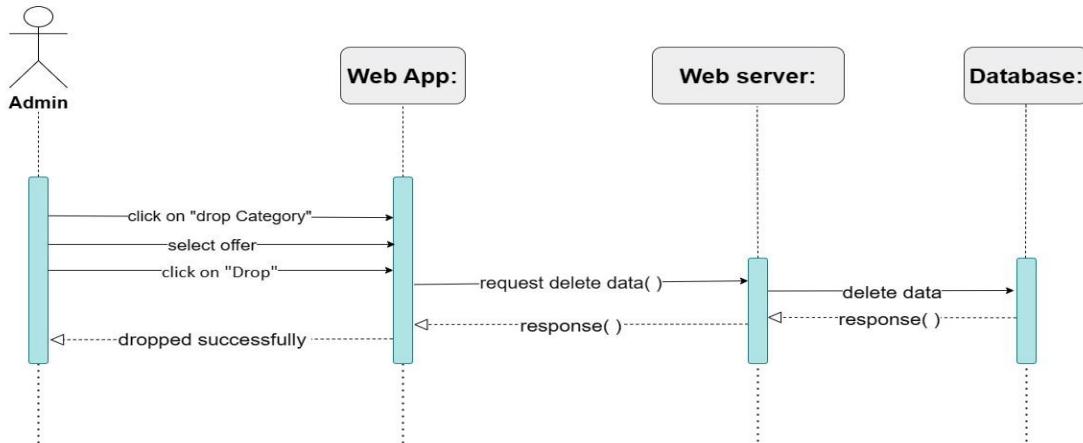
- Add Categories



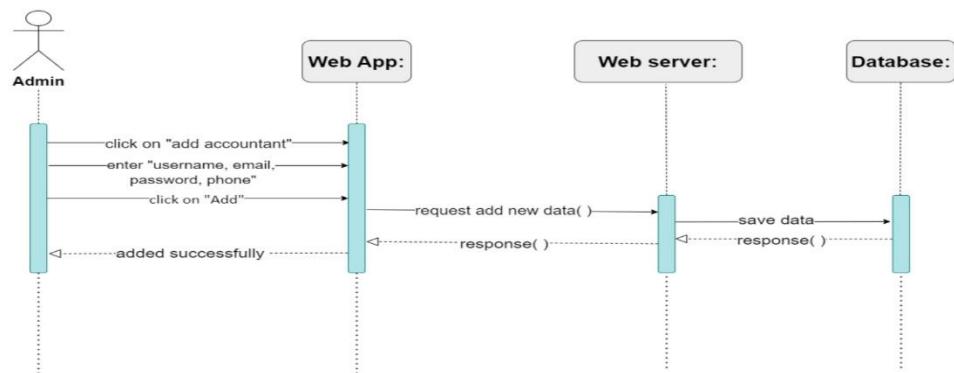
- Edit Category



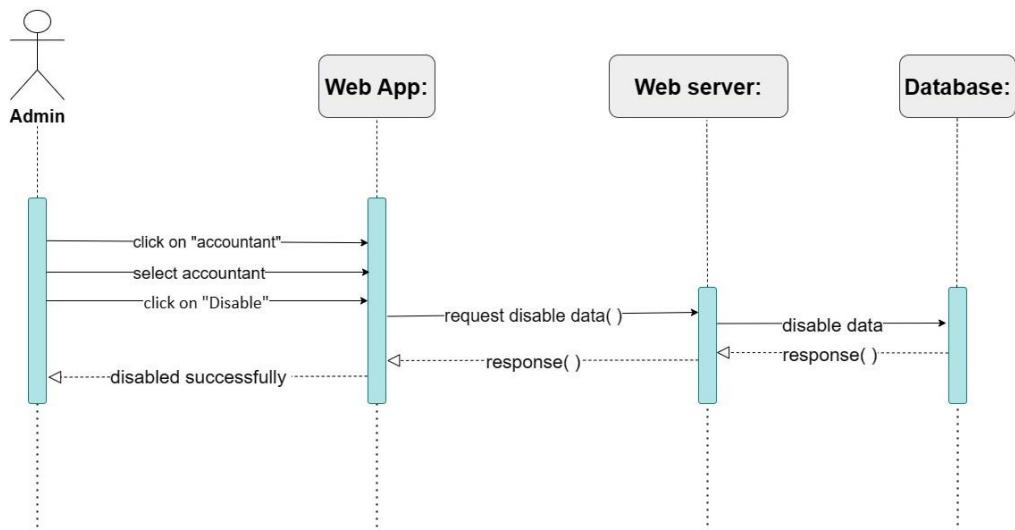
- Drop Category



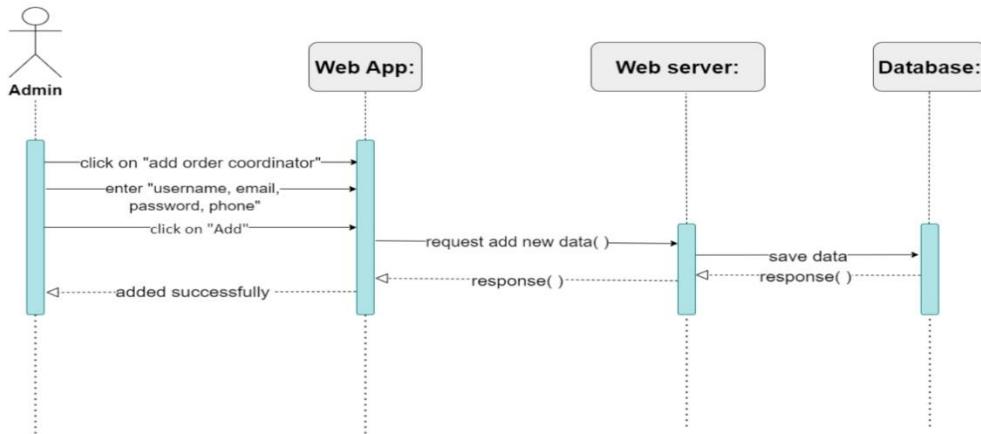
- Add Accountant



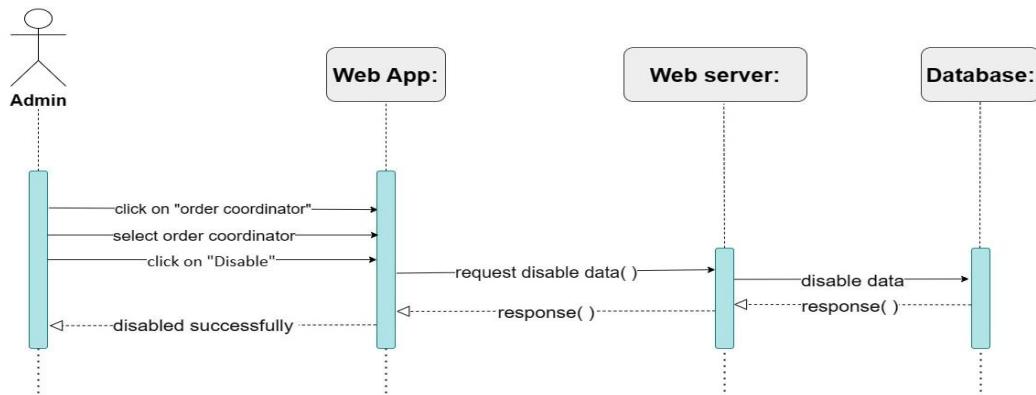
- Disable Accountant



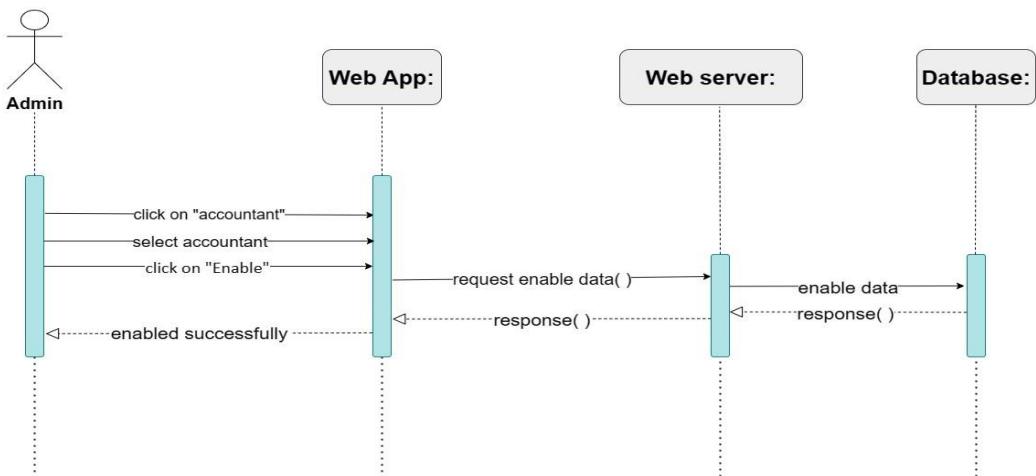
- Add Order Coordinator



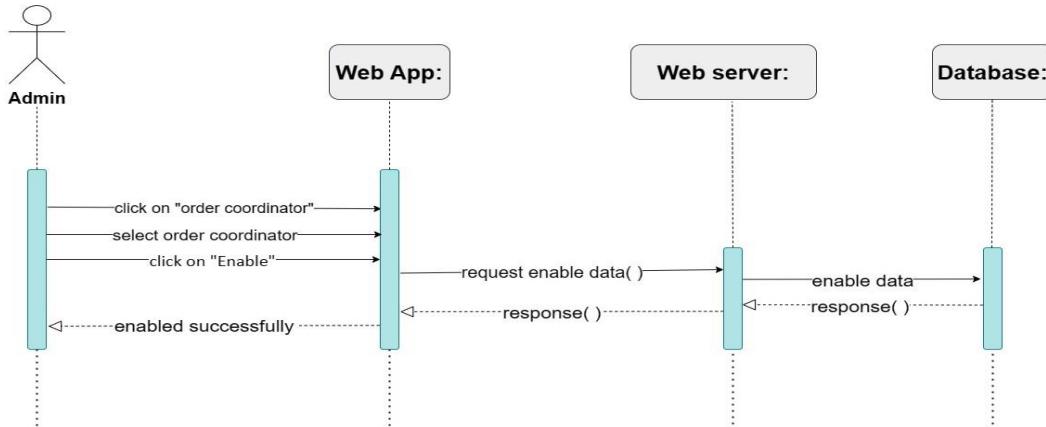
- Disable Order Coordinator



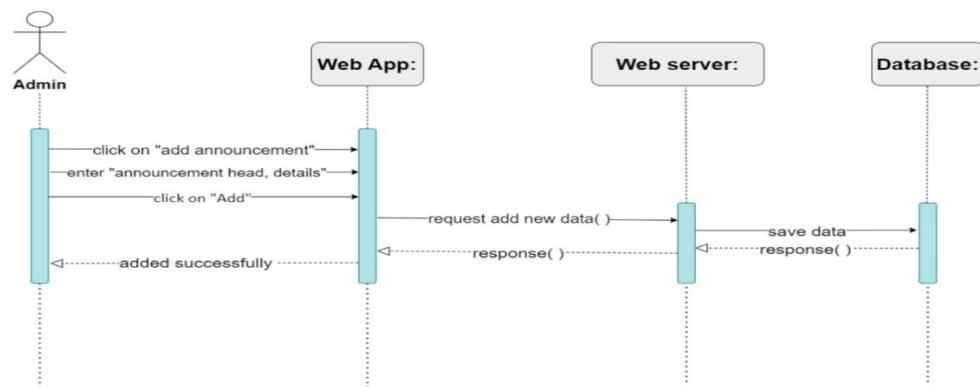
- Enable Accountant



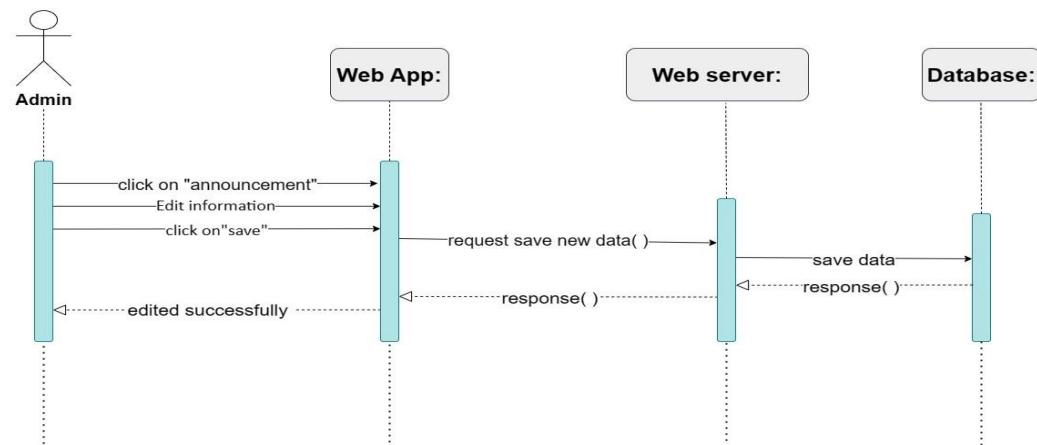
- Enable Order Coordinator



- Add Announcement

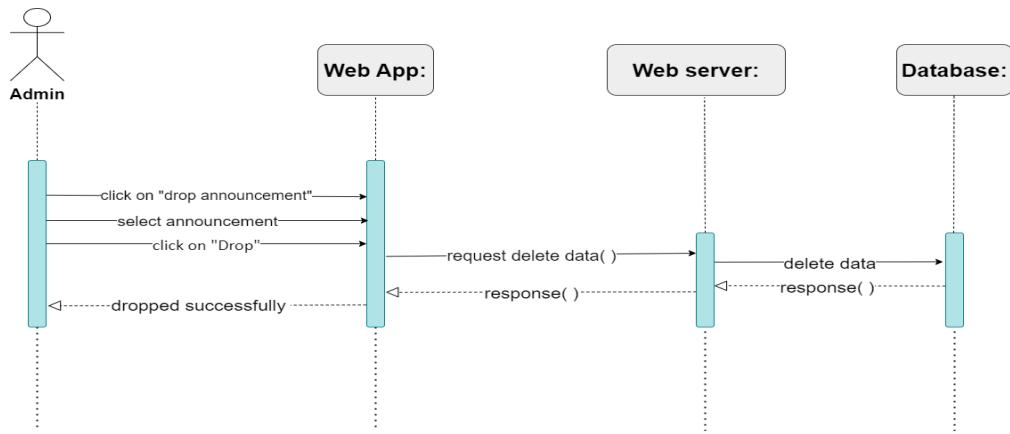


- Edit Announcement

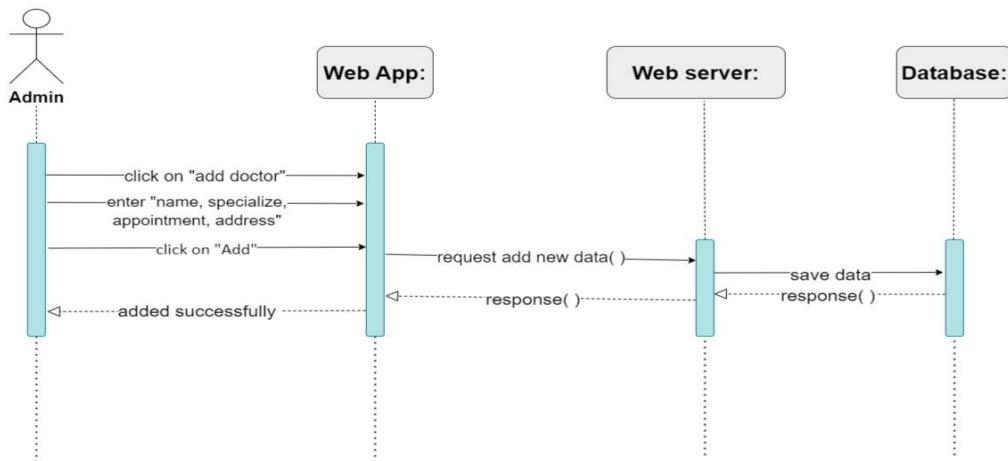




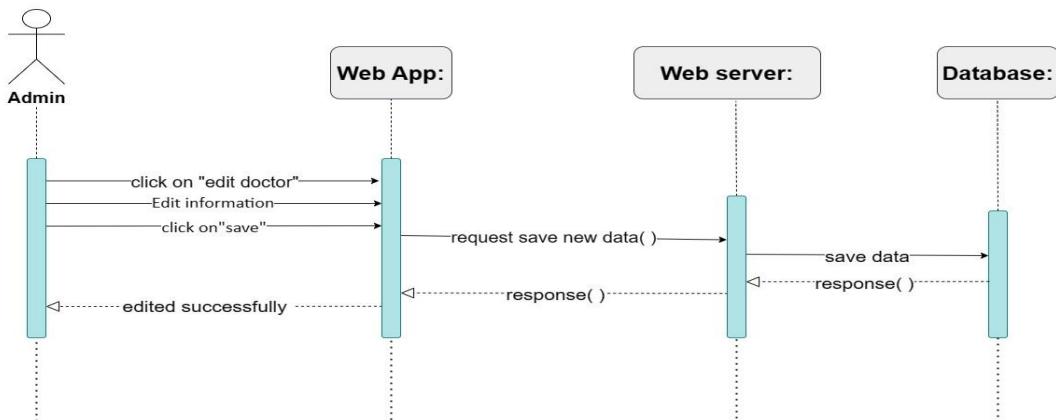
- Drop Announcement



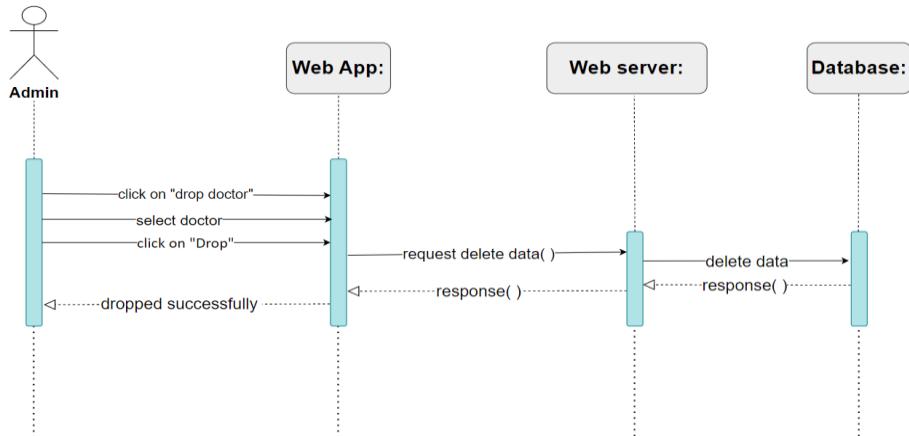
- Add Doctor



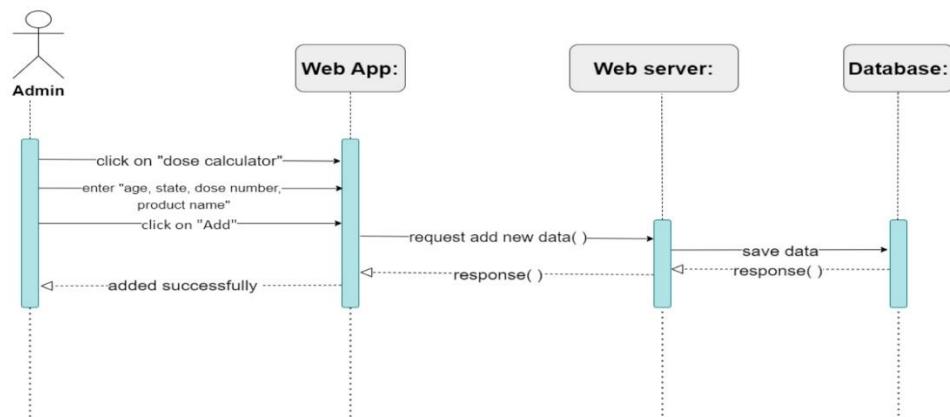
- Edit Doctor



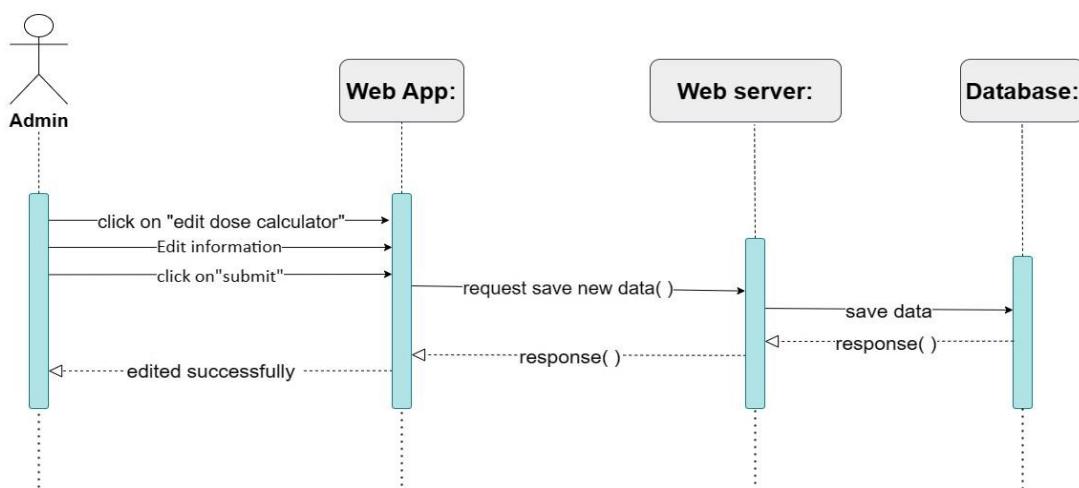
- Drop Doctor



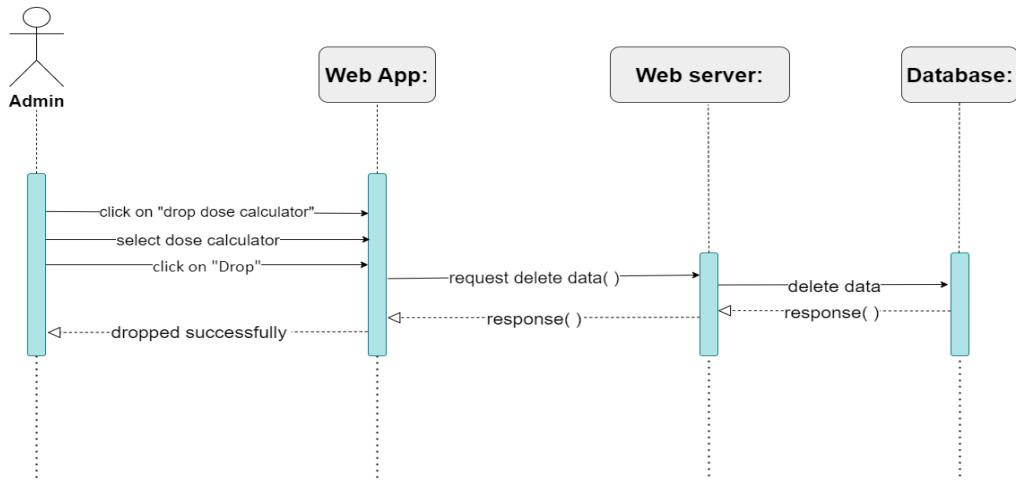
- Add Dose Calculator



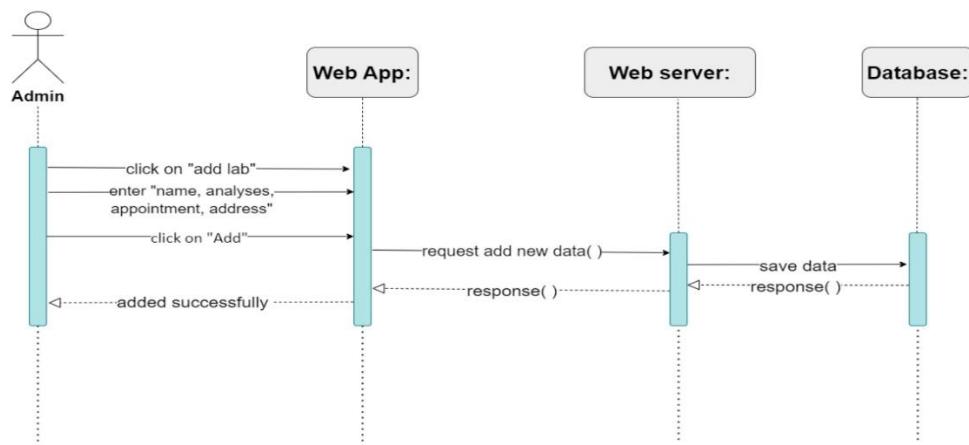
- Edit Dose Calculator



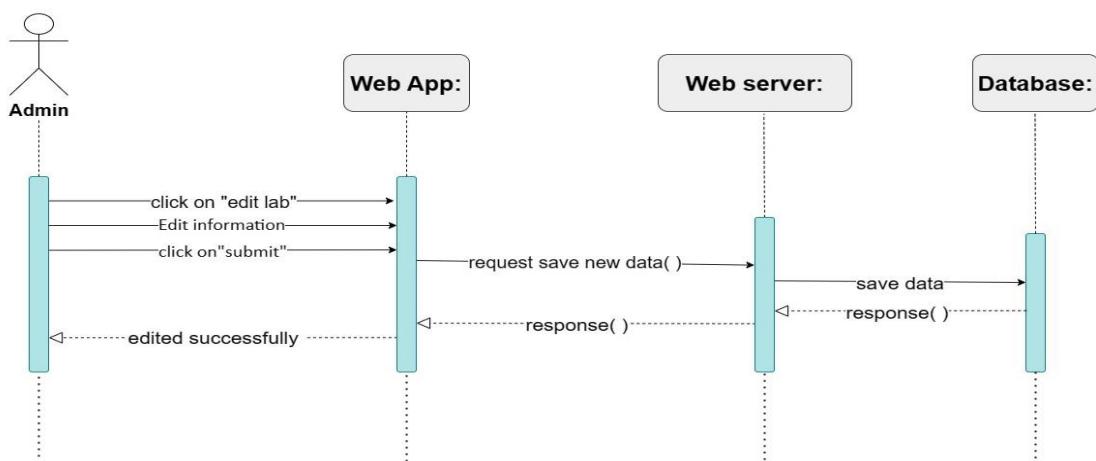
- Drop Dose Calcultor



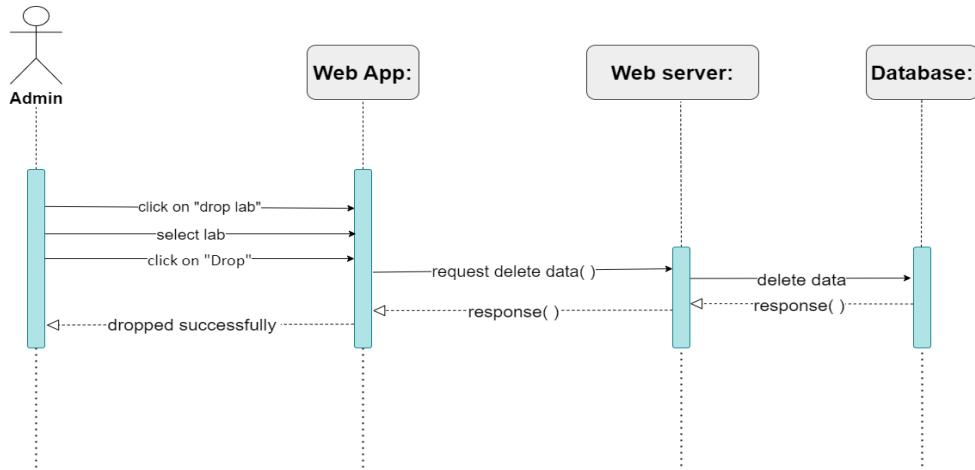
- Add Lab



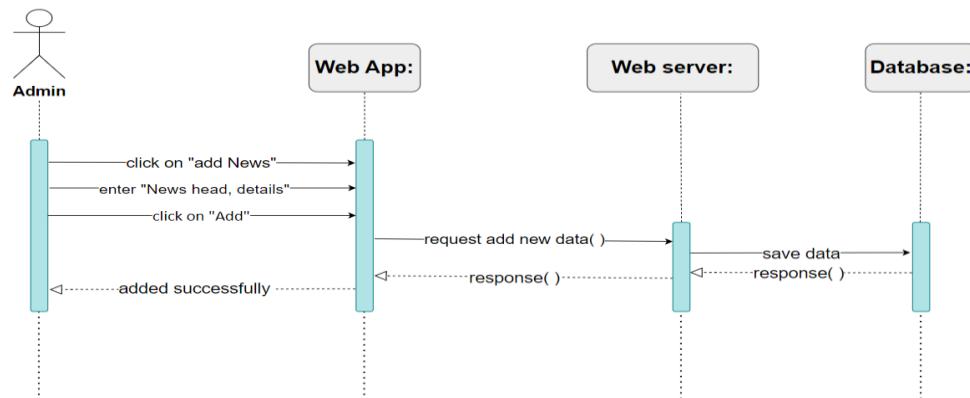
- Edit Lab



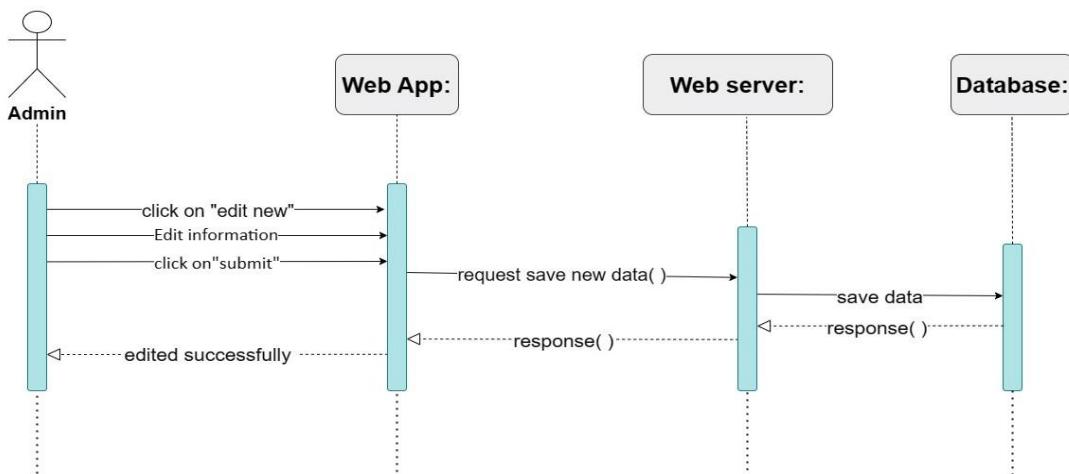
- Drop Lab



- Add News

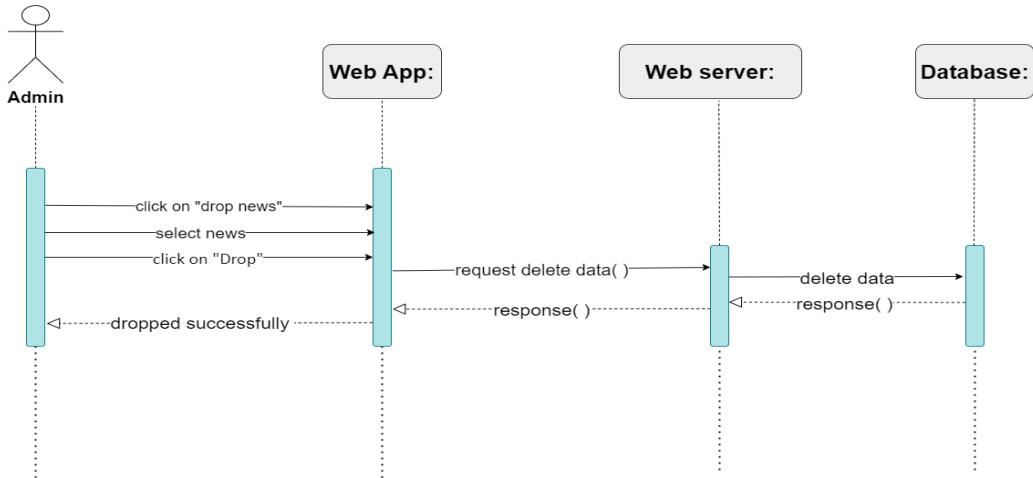


- Edit New

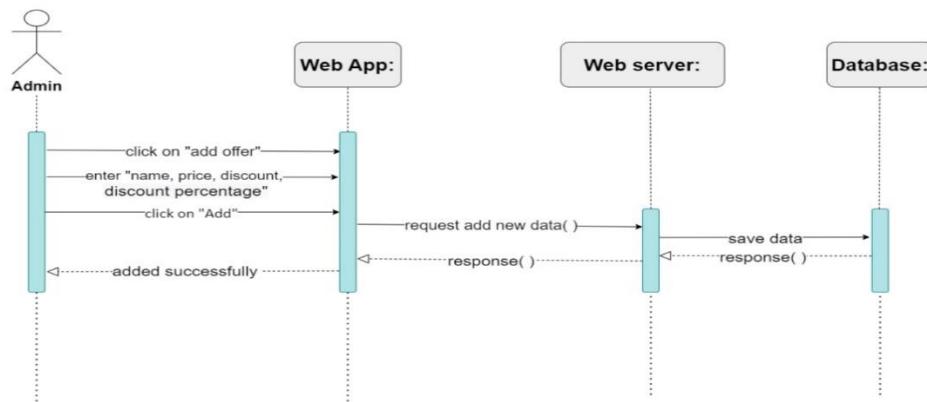




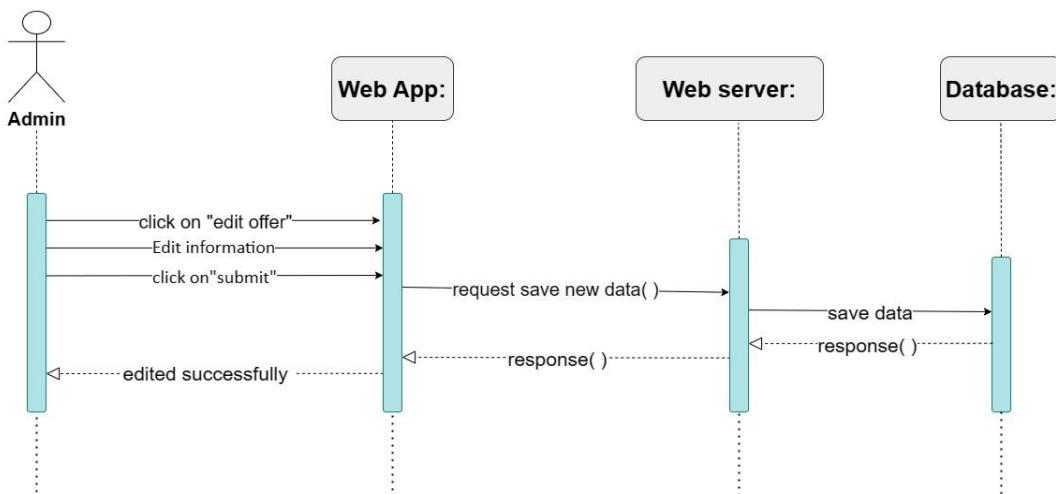
- Drop New



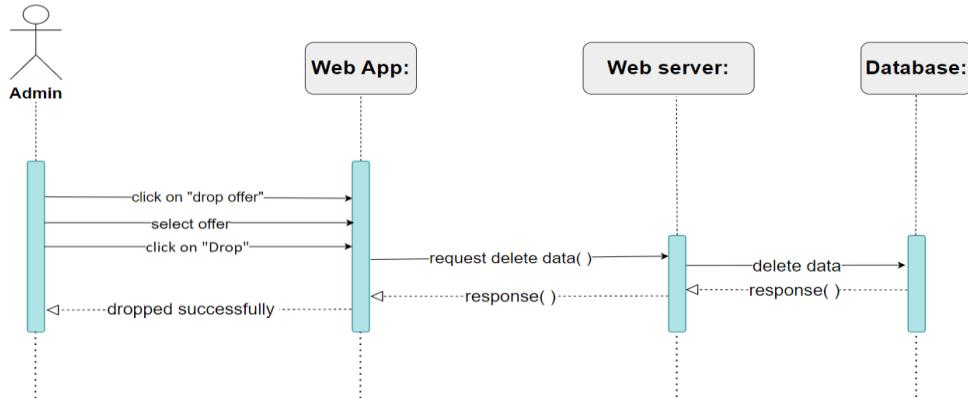
- Add Offer



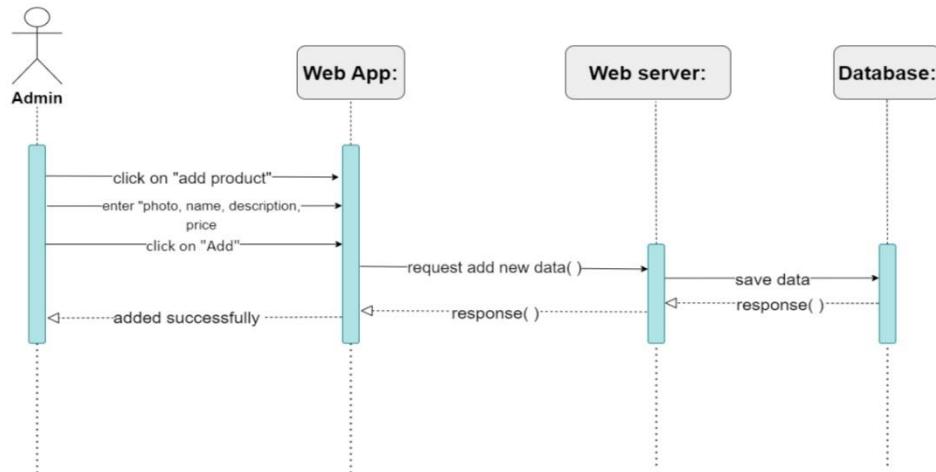
- Edit Offer



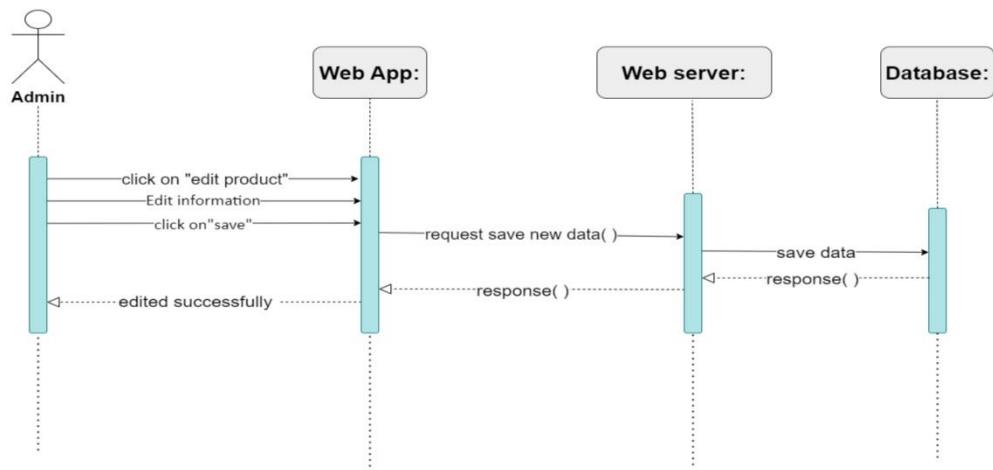
- Drop Offer



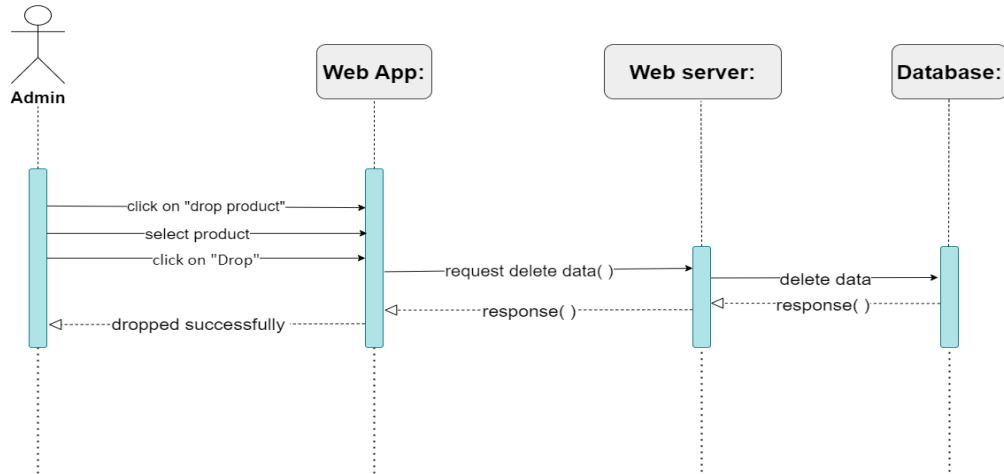
- Add Product



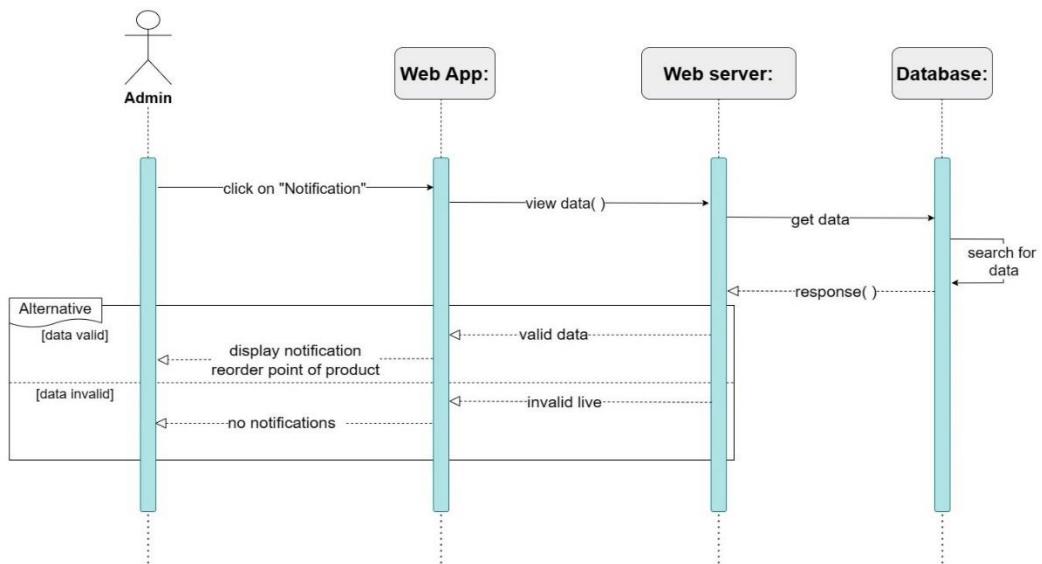
- Edit Product



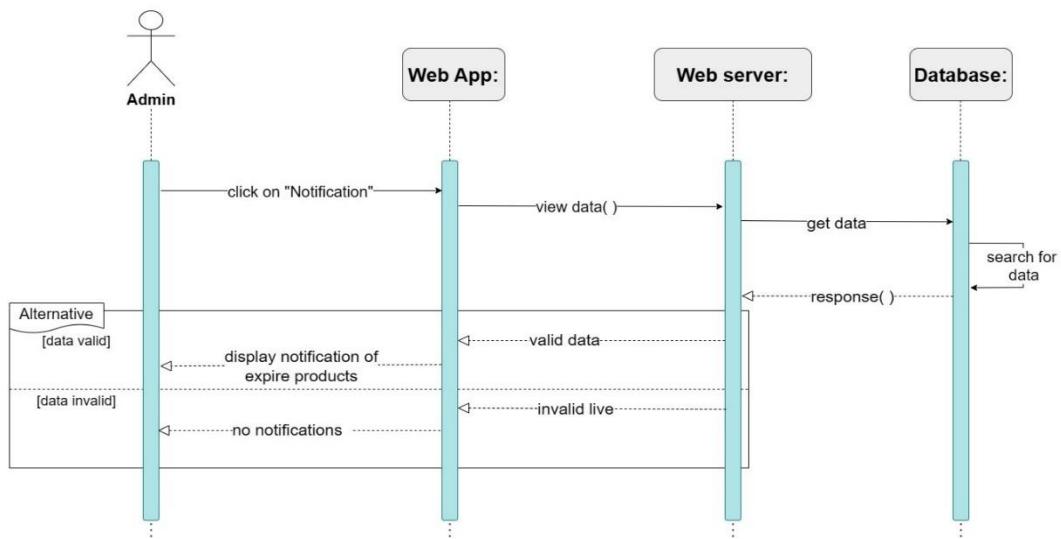
- Drop Product



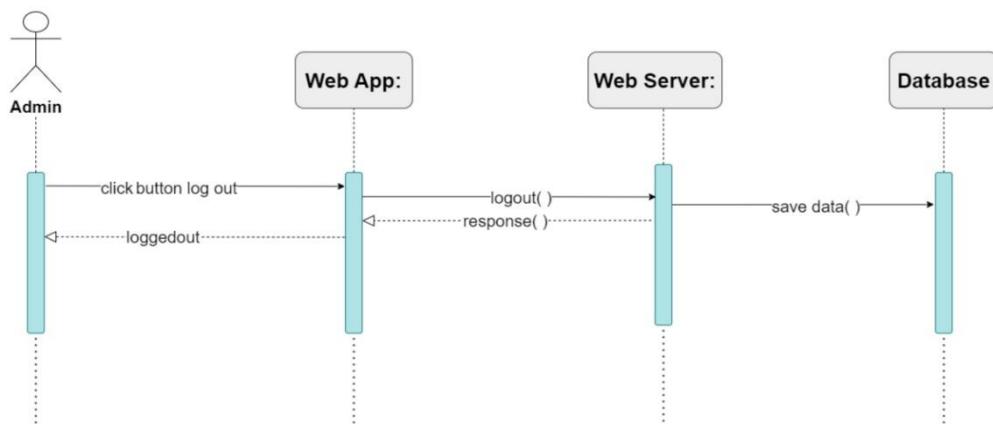
- Notification of reorder point



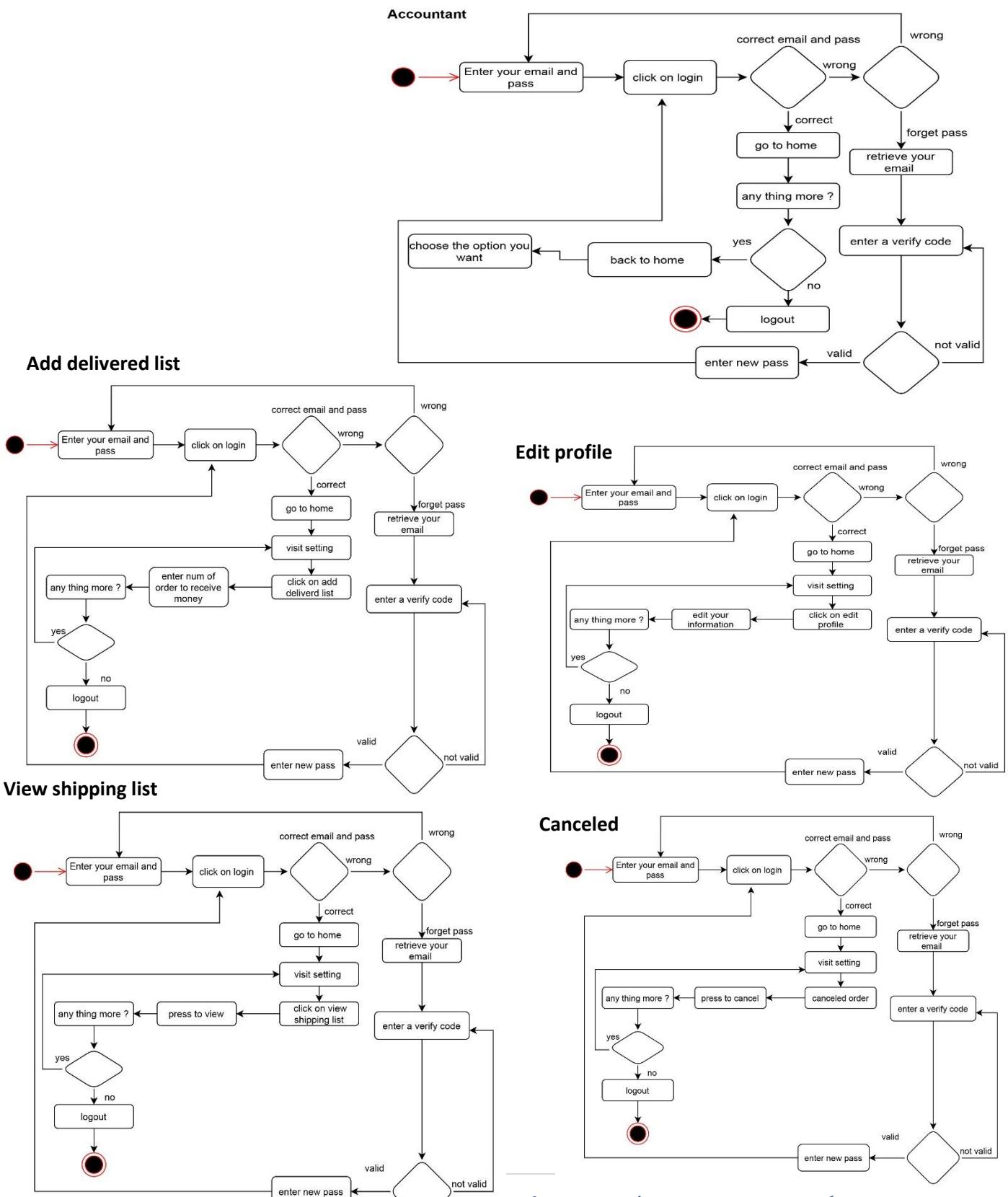
- Notification of expire date



- Logout



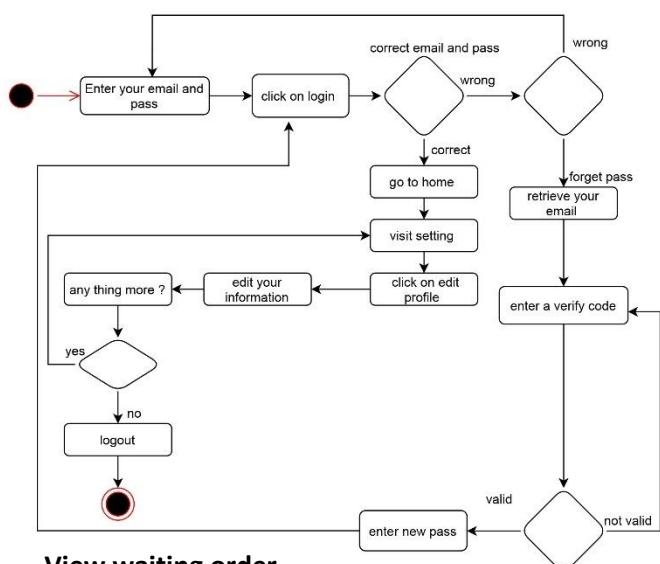
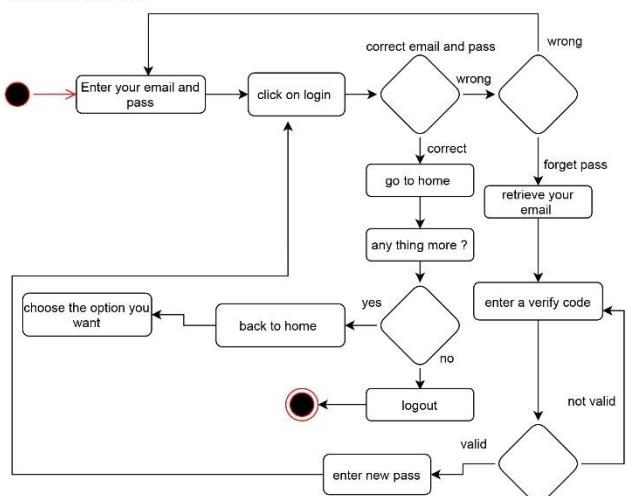
## Activity diagram



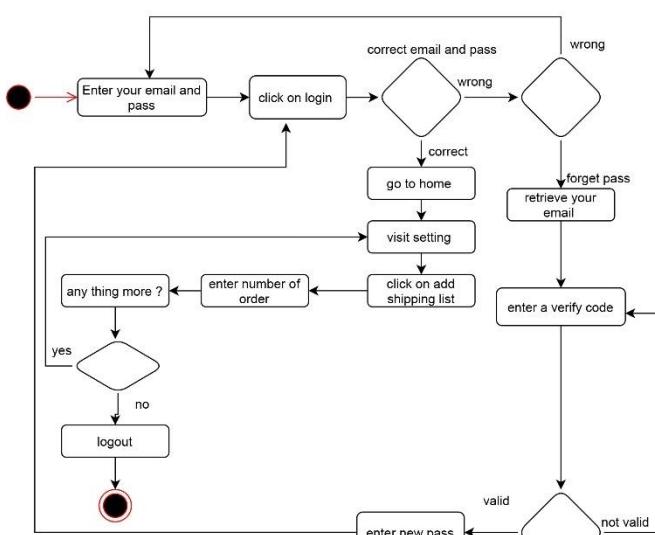
information system department

Graduation Project 2023

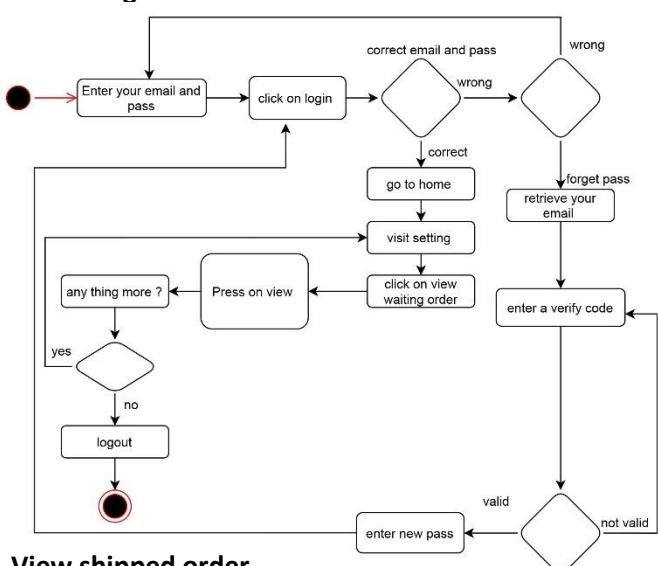
#### order coordinator



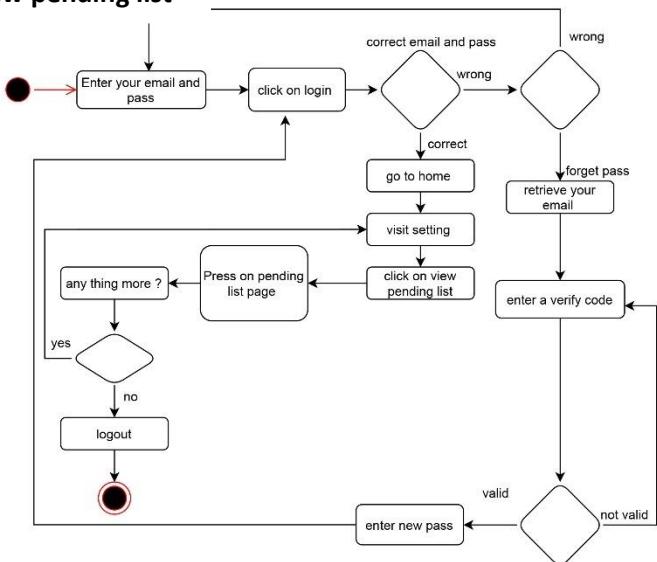
#### add shipping list



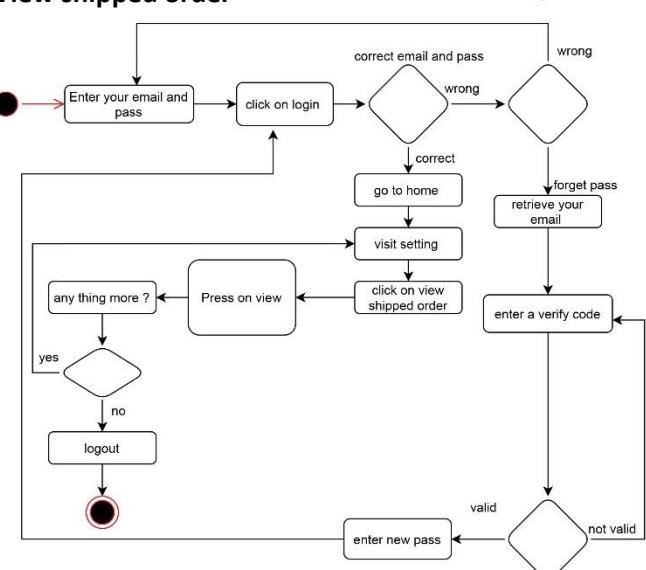
#### View waiting order

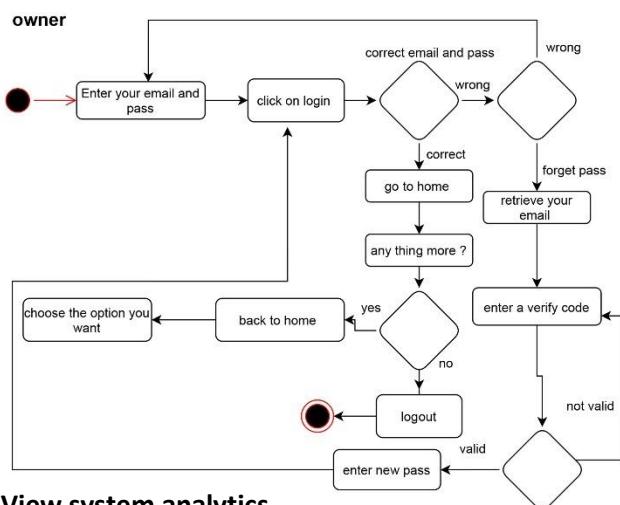


#### View pending list

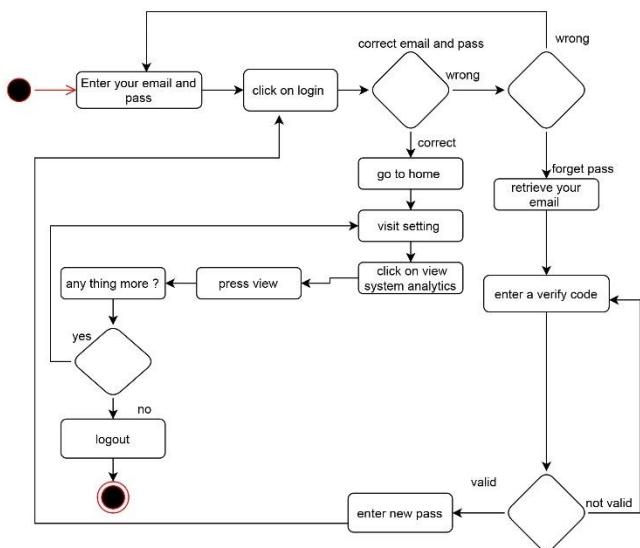


#### View shipped order

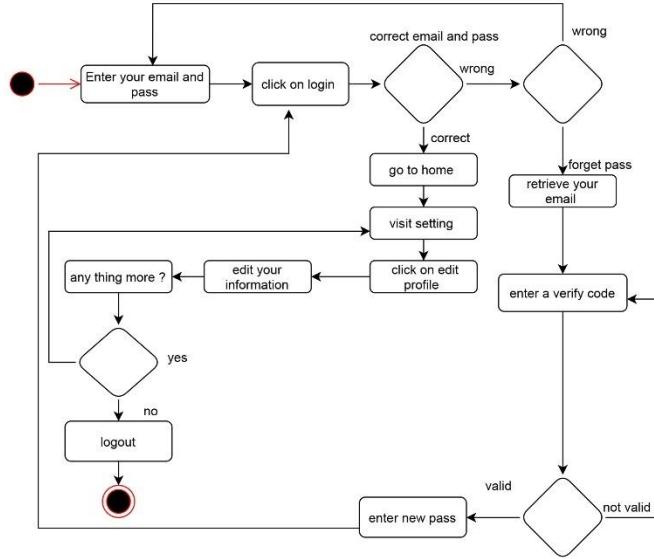
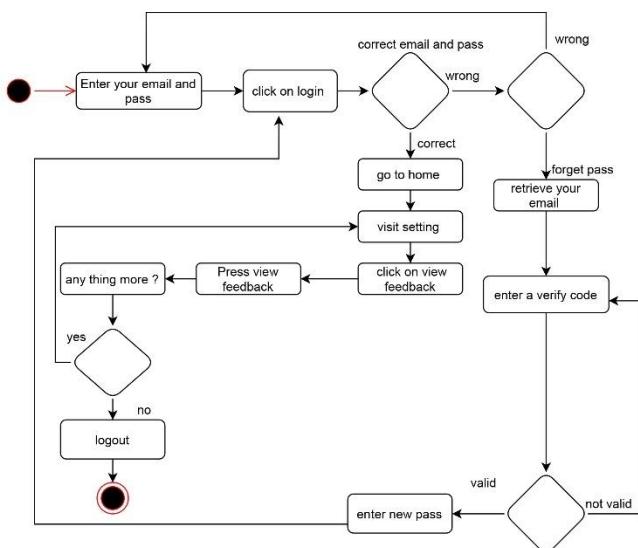




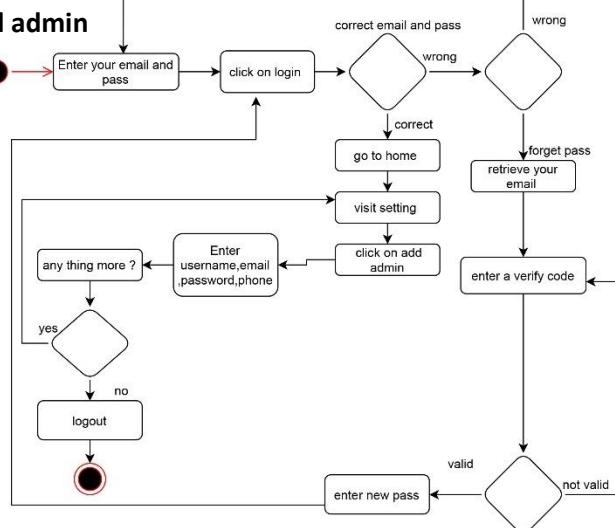
### View system analytics



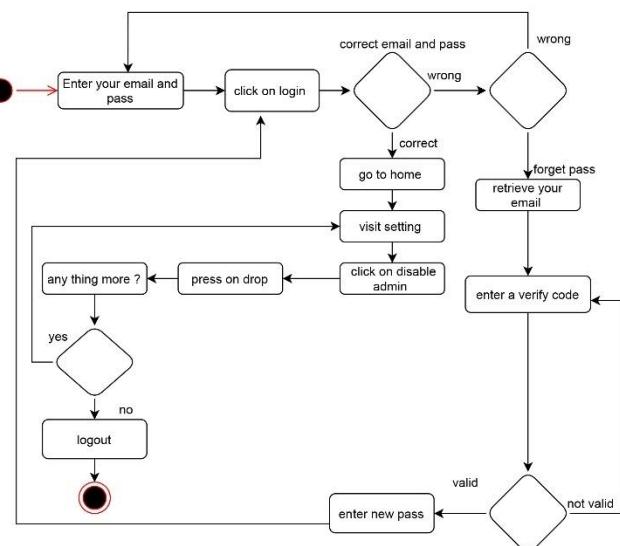
### View feedback

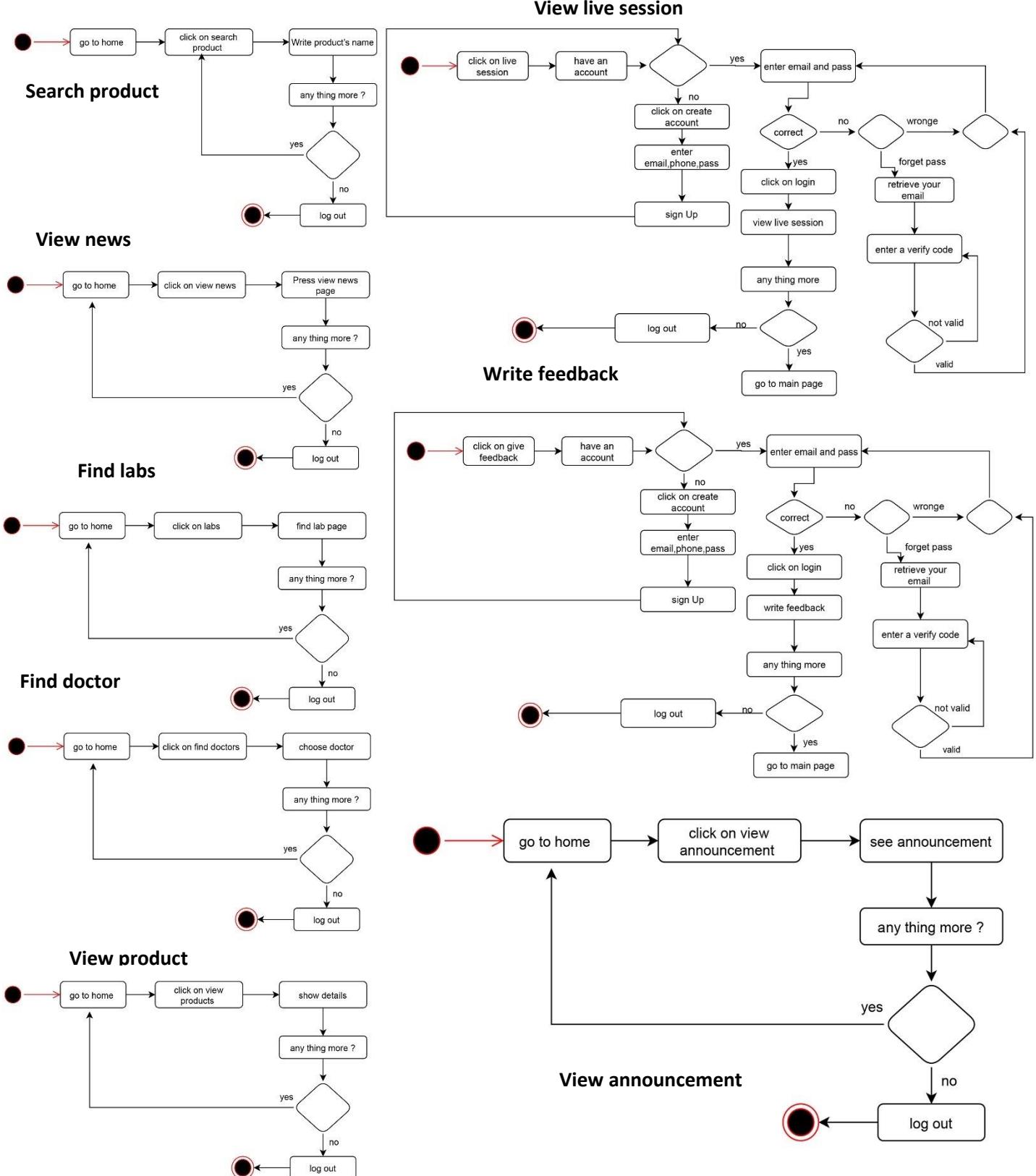


### add admin

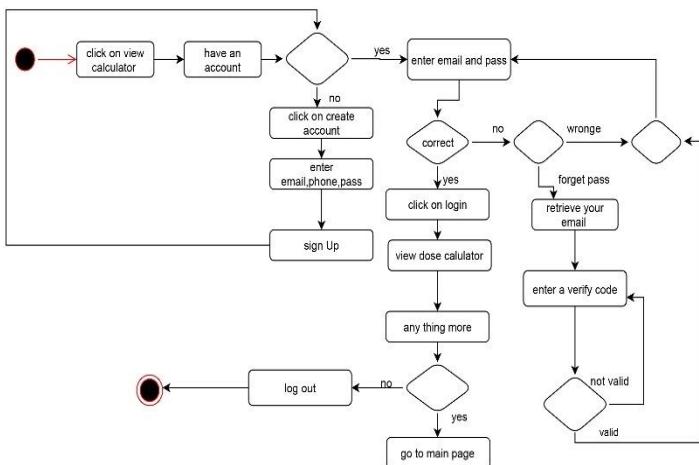


### Disable admin

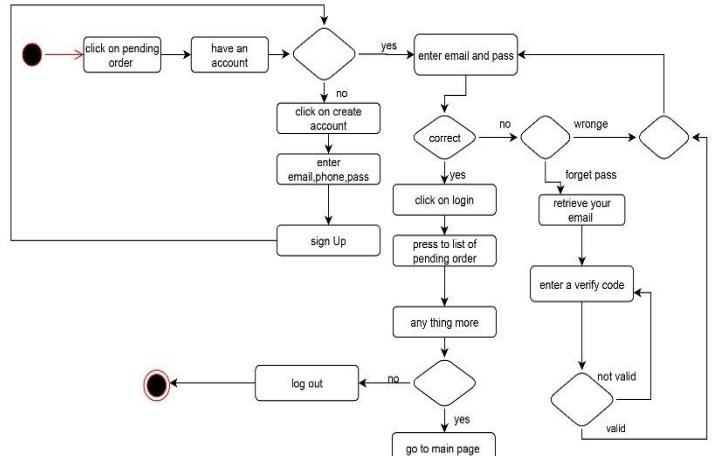




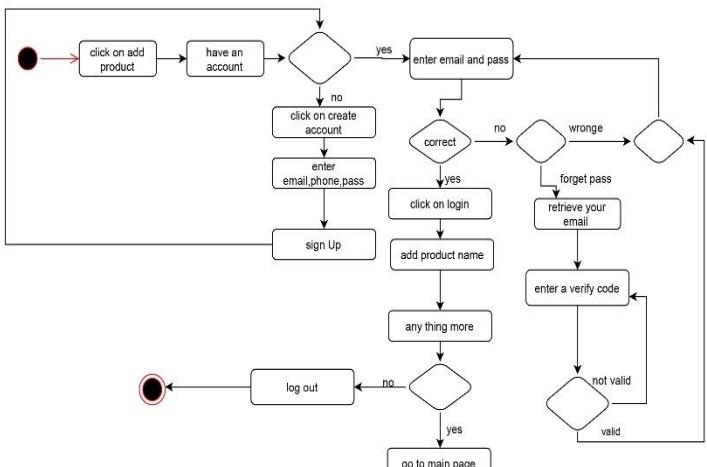
### View dose calculator



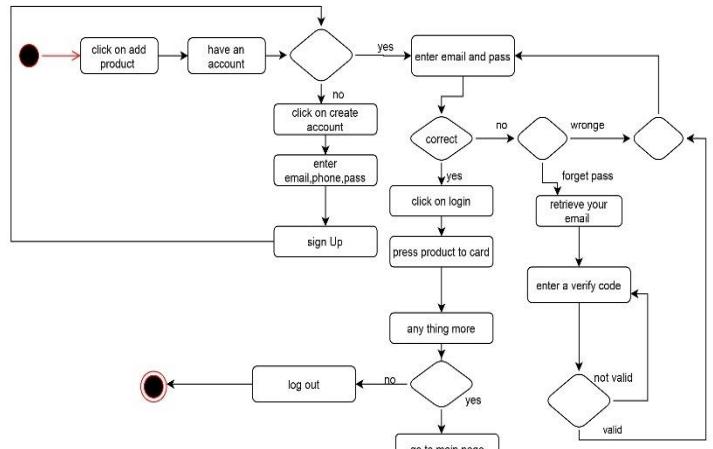
### List of pending order



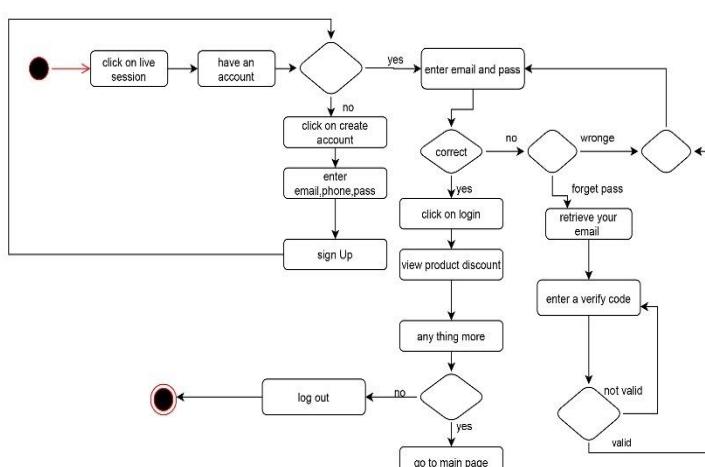
### Add product name



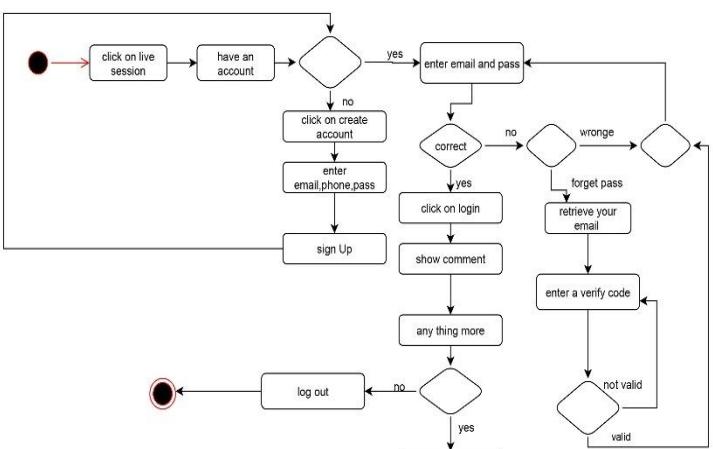
### Add product to cart



### View product discount

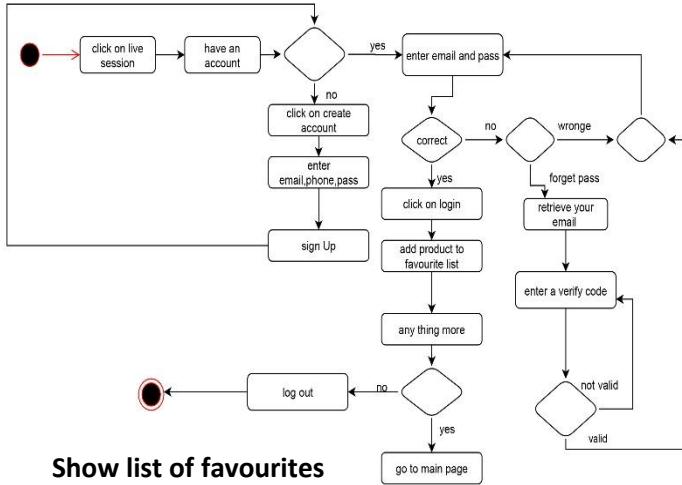


### Show comment

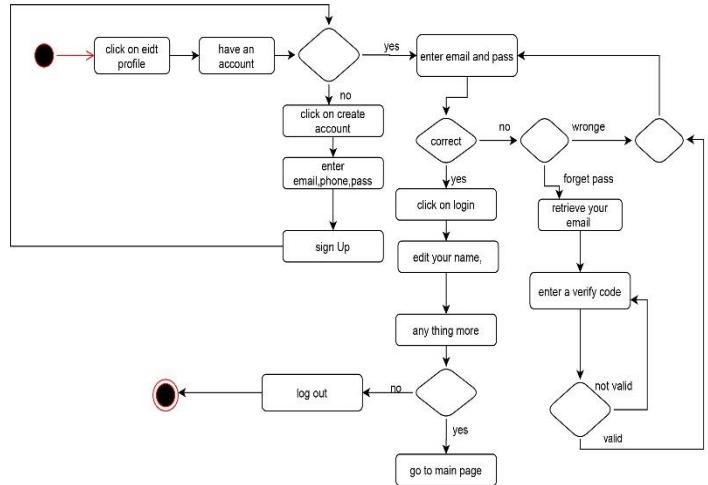




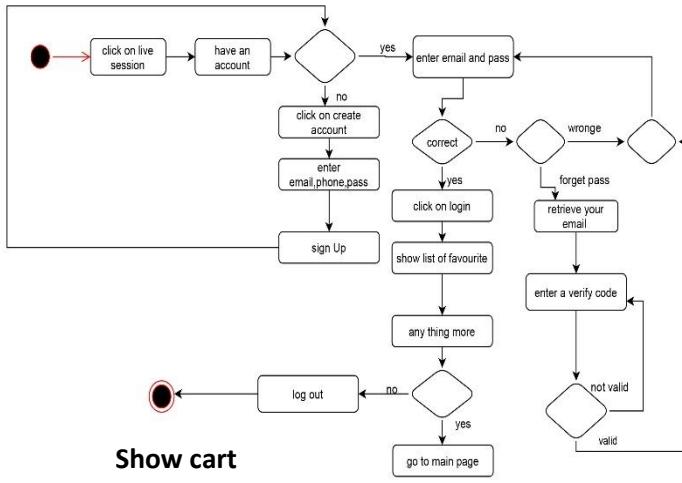
### Add product to favourite list



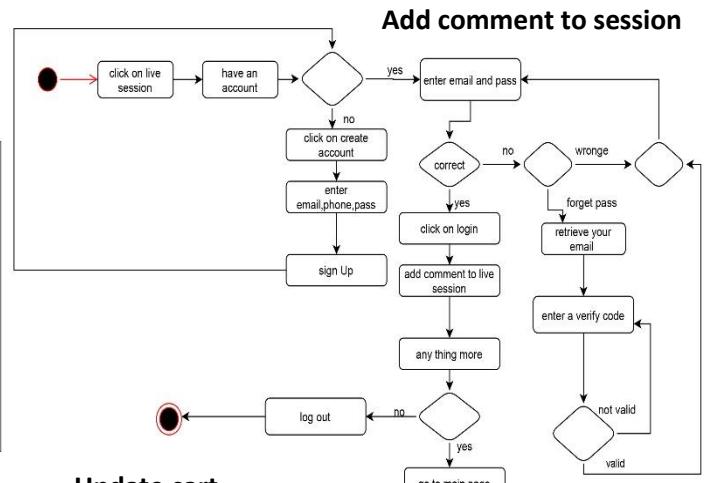
### Edit your name



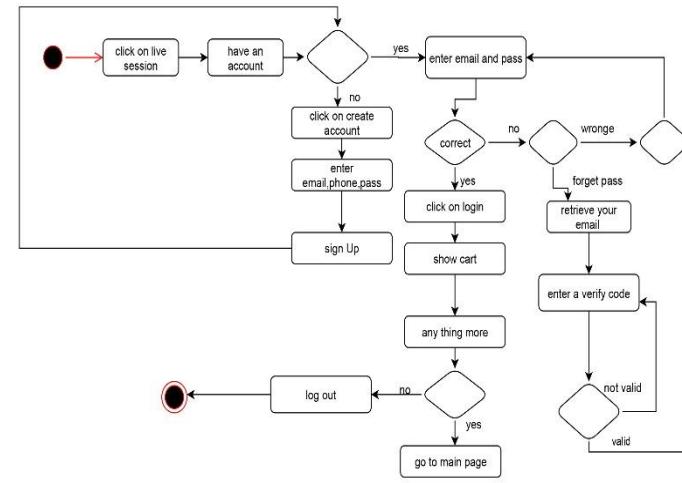
### Show list of favourites



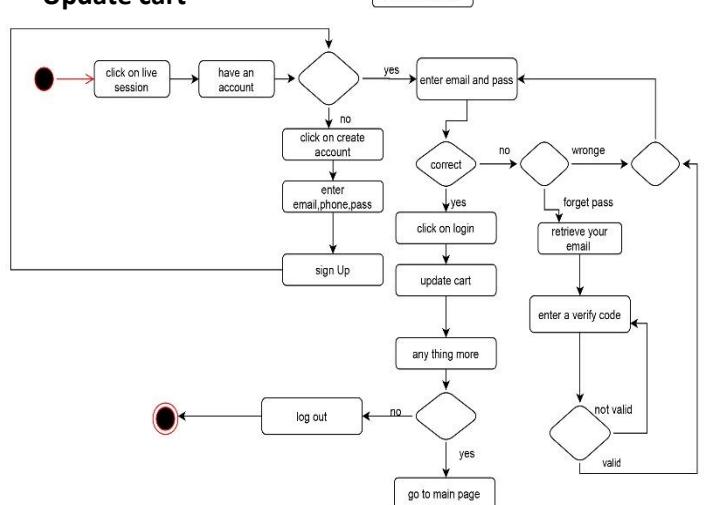
### Add comment to session

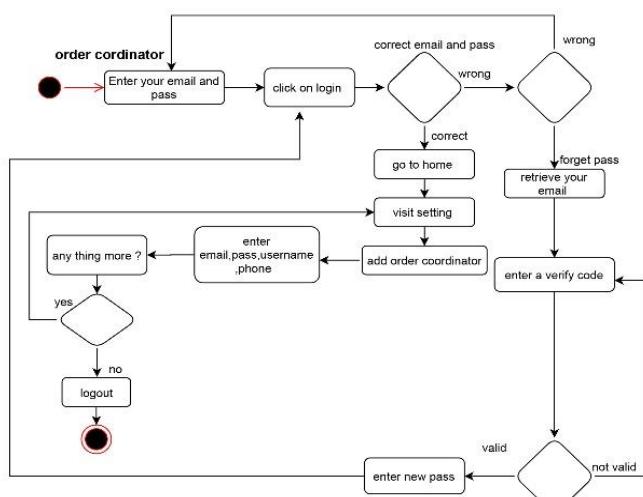
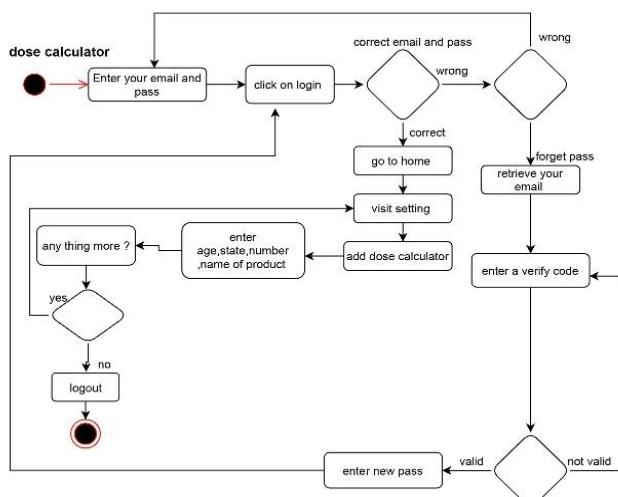
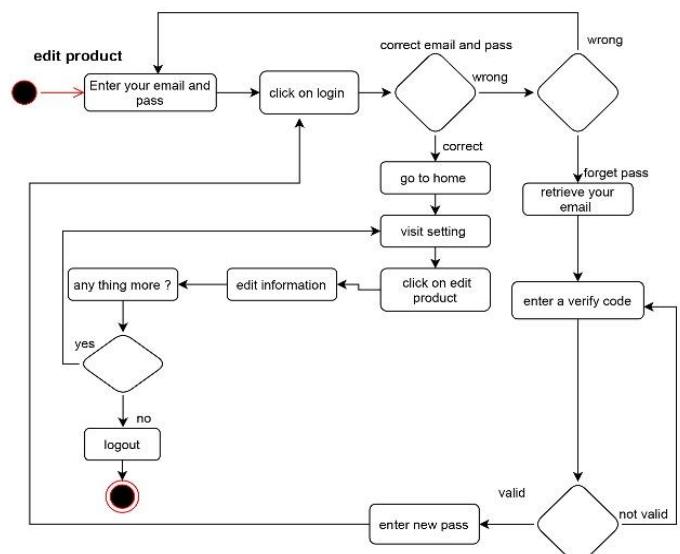
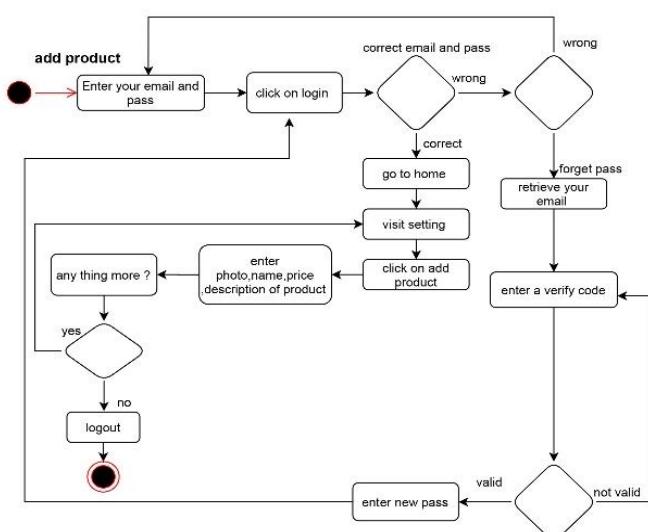
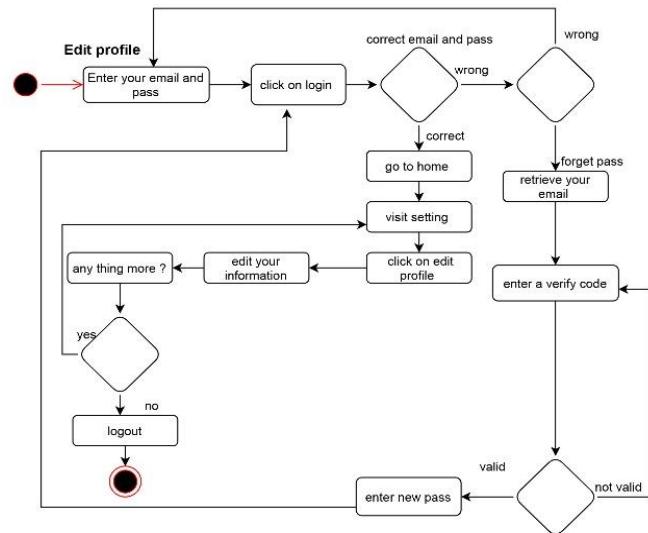
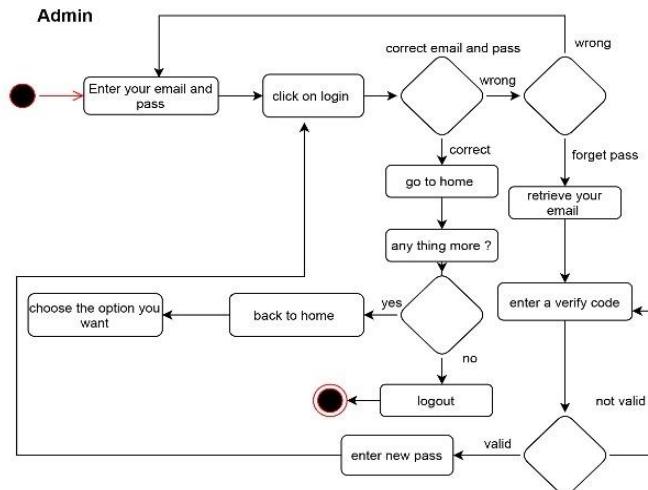


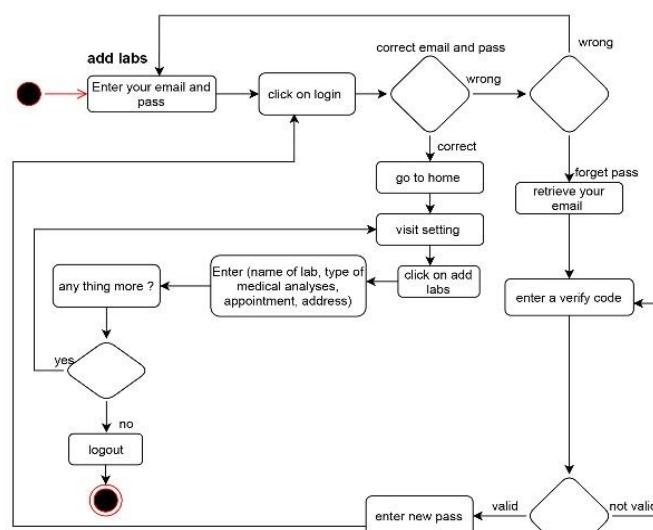
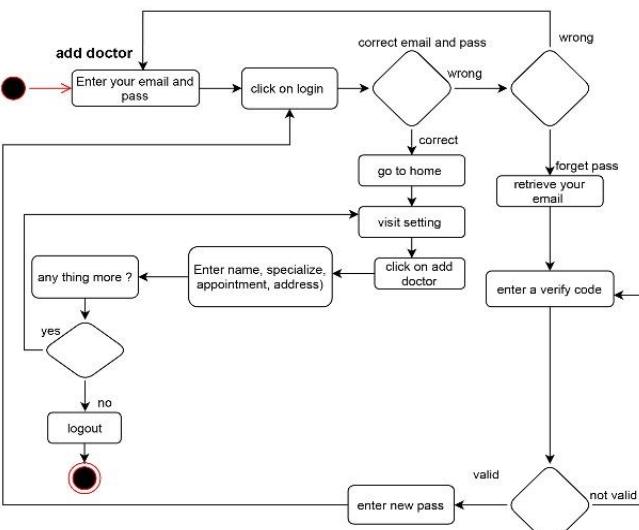
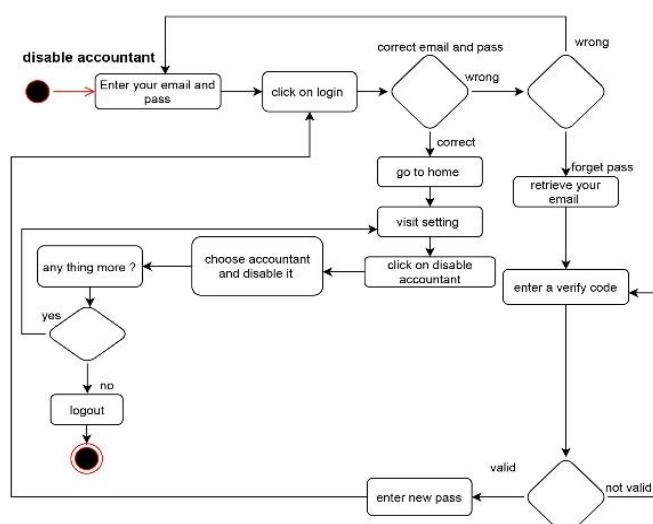
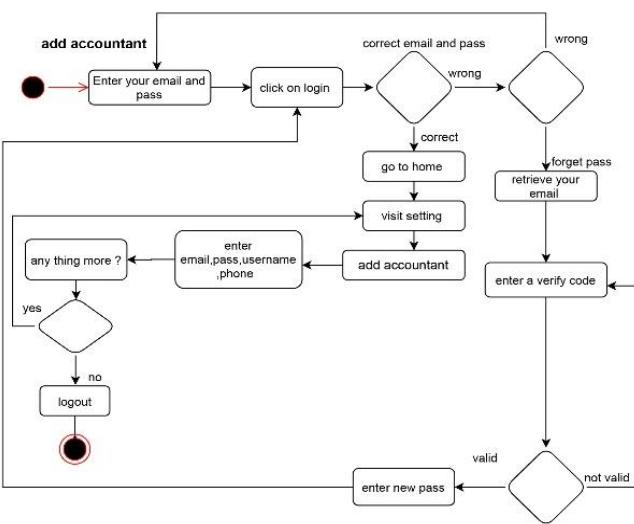
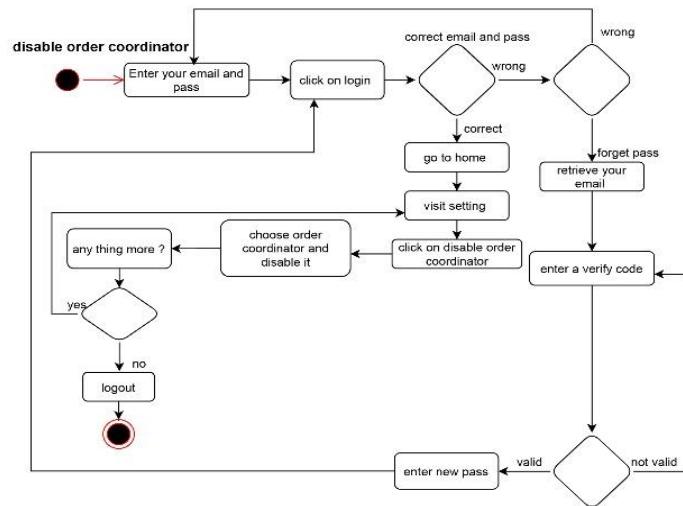
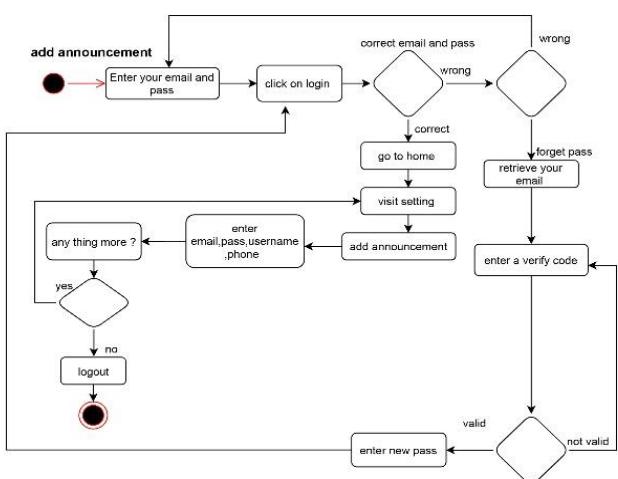
### Show cart

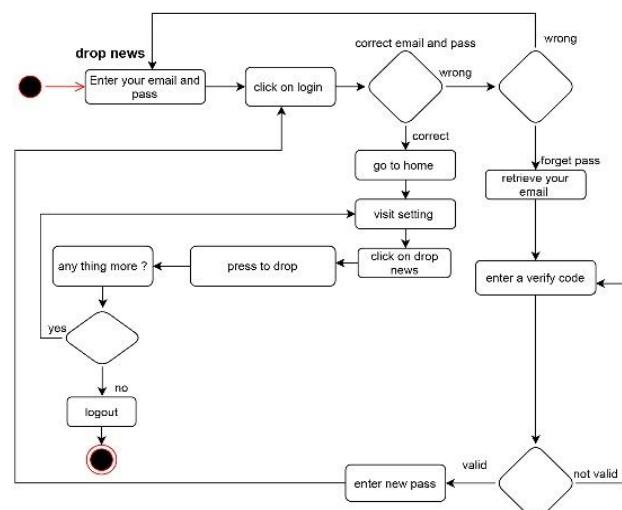
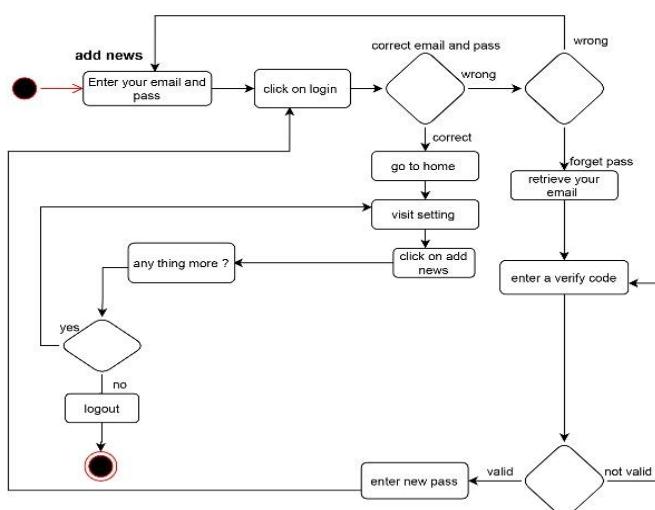
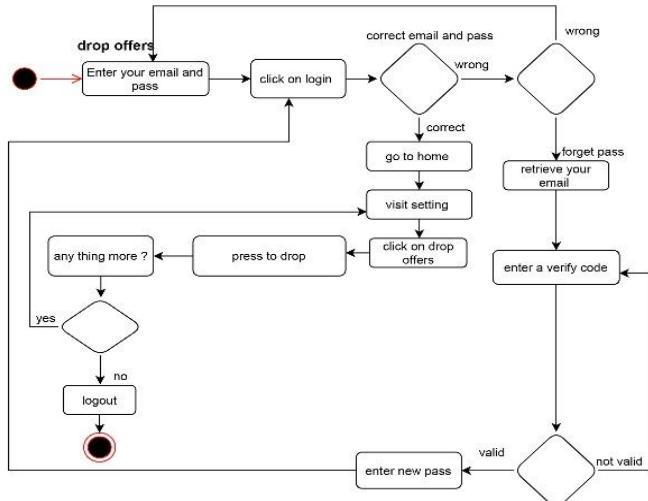
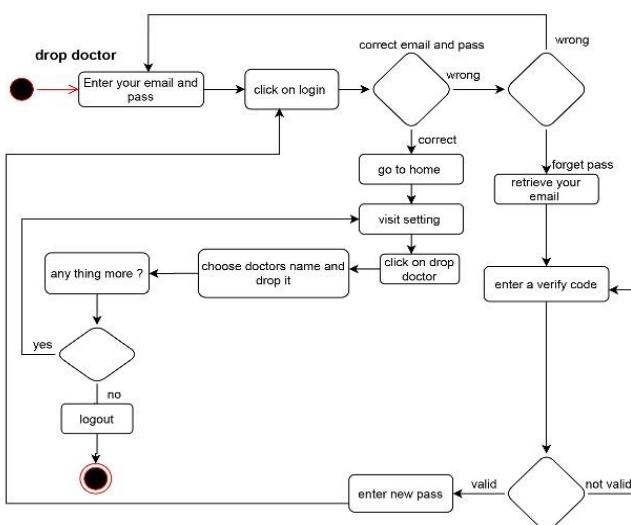
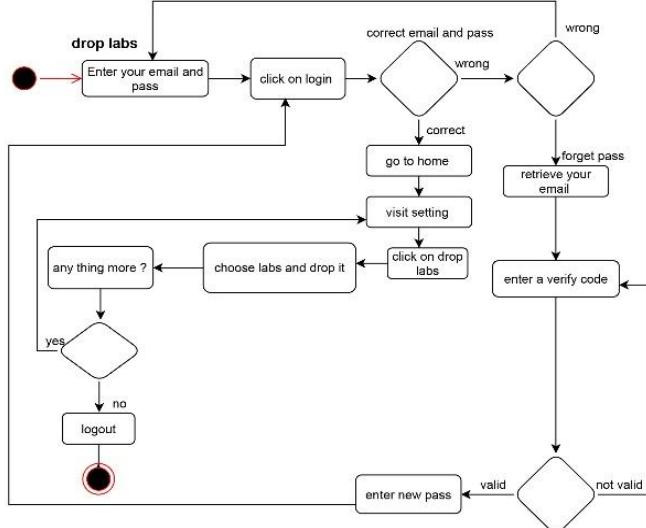
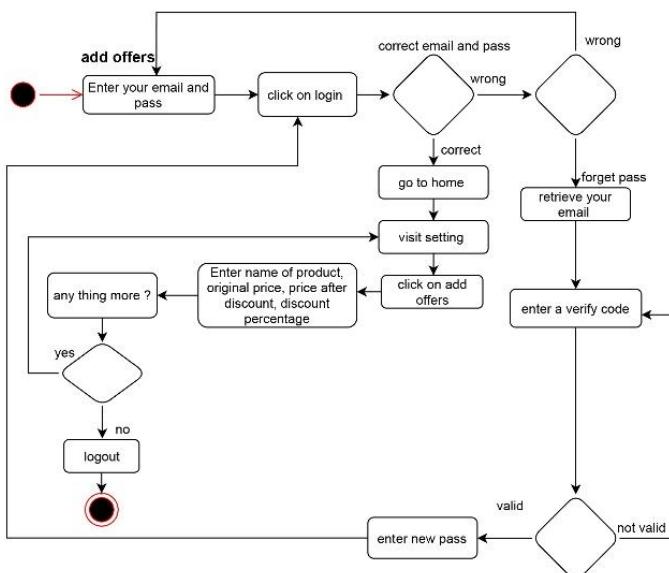


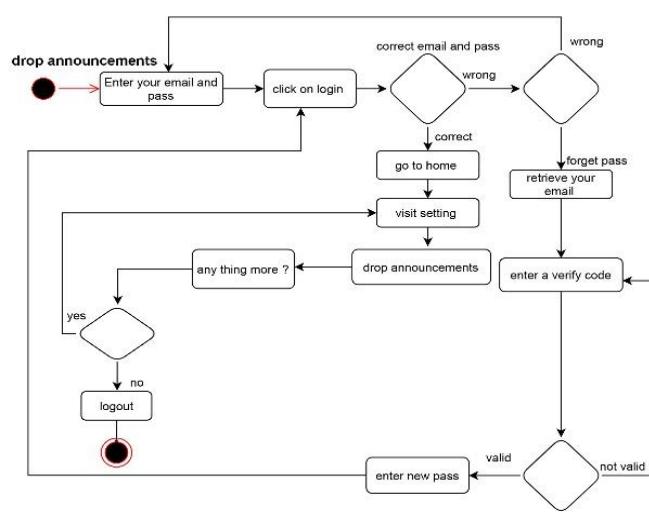
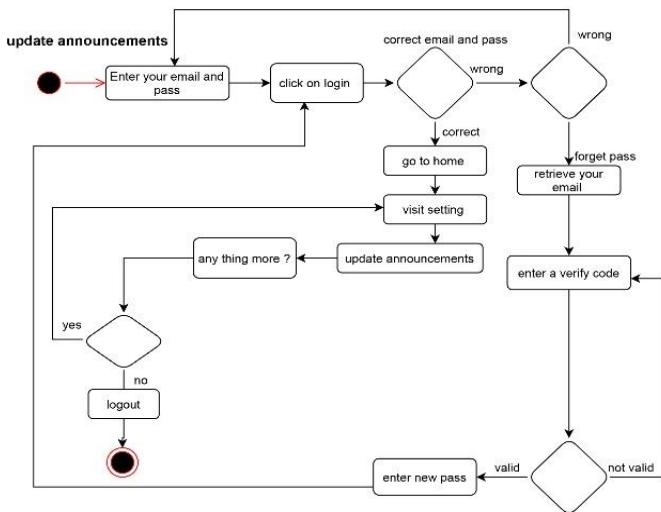
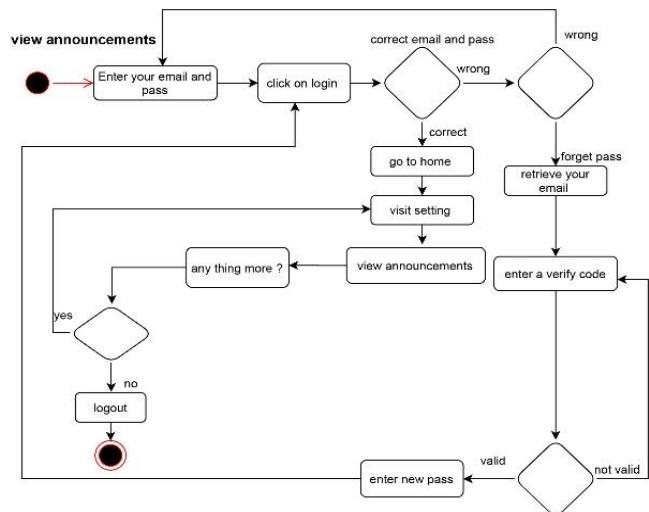
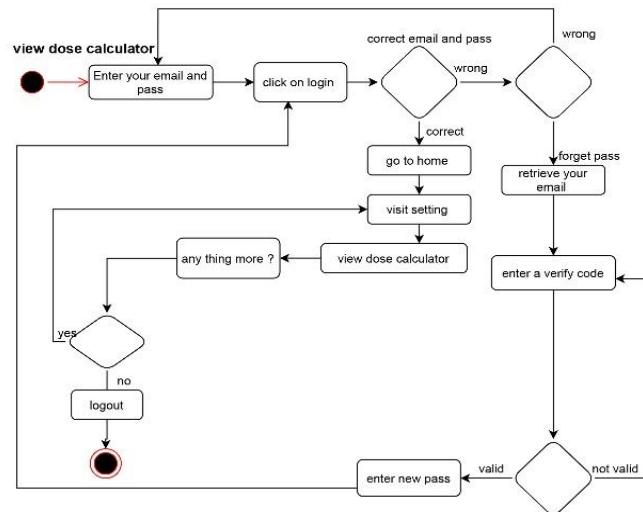
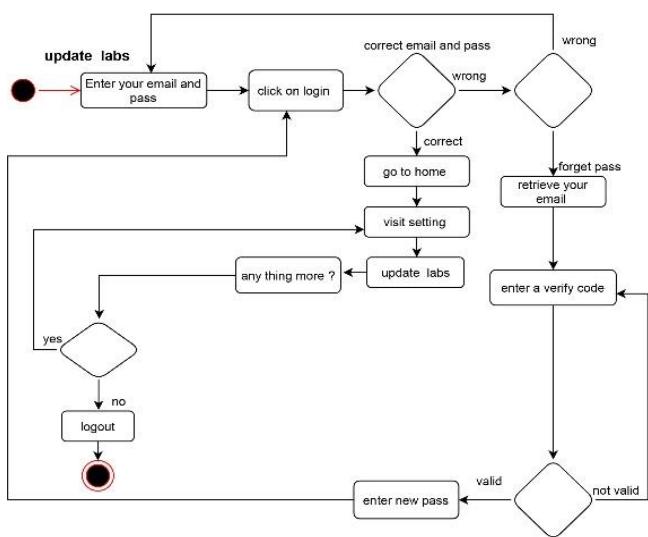
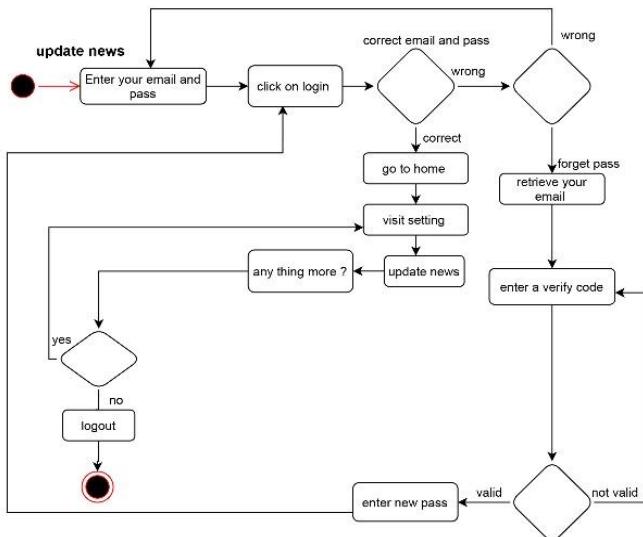
### Update cart

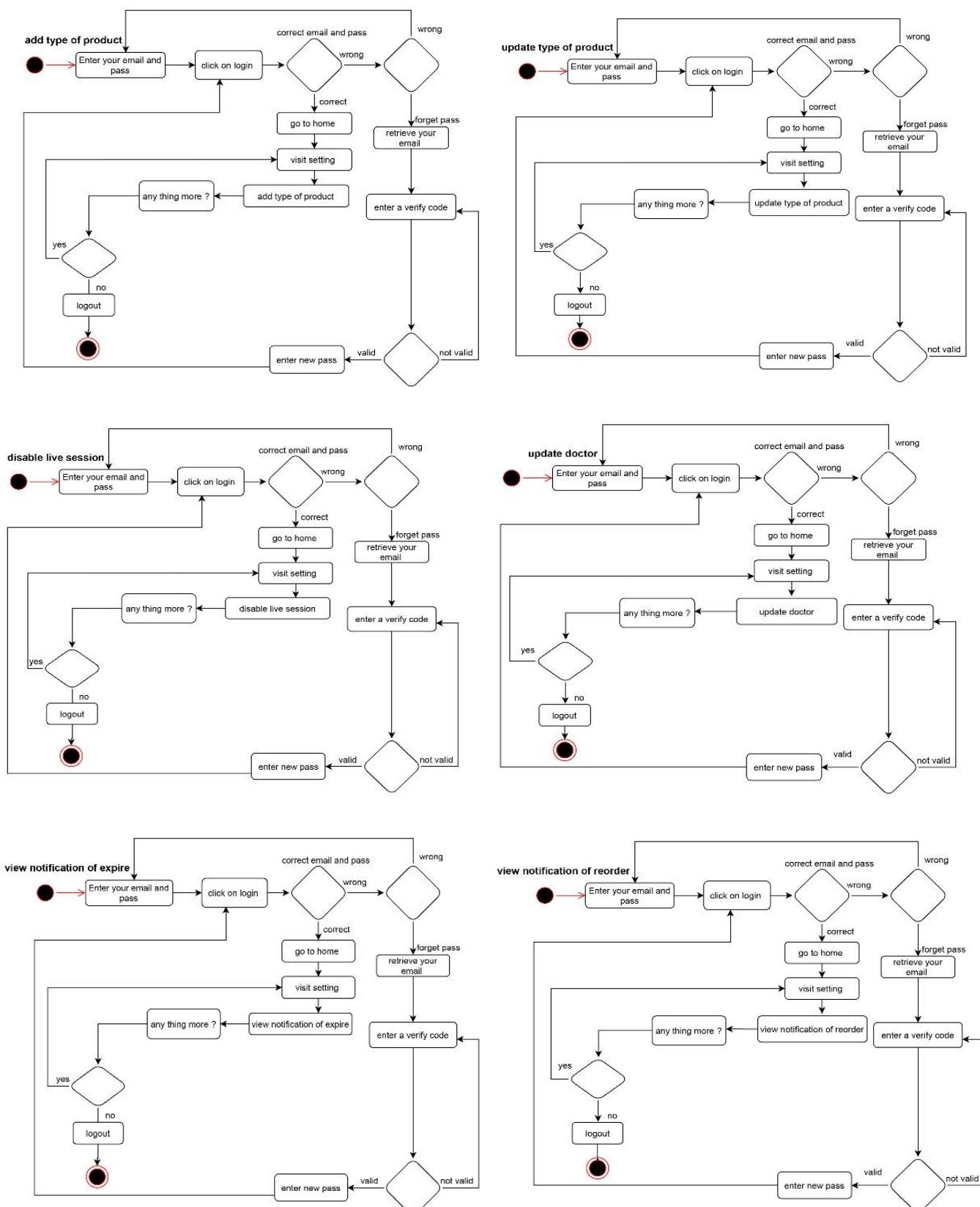












# Use Case Scenario

## ➤ Use Case 1:

**Identifier and Name:** Sign Up

**Initiator:** User

**Goal:** User create an account to login on the system.

**Pre Conditions:** Any natural person can request to open an Account.

**Post Conditions:**

The user should have an account and redirect to login page by Email and password.

**Main Success Scenario:**

1. Open the web application.
2. client should enter a valid data to create an account such Email, username, password, Confirm password, First Name, Last Name, Address, phone.

## ➤ Use Case 3:

**Identifier and Name:** Logout

**Initiator:** User, Admin, Order Coordinator, Accountant, Owner

**Goal:** Any initiator can logout of the system.

**Pre Conditions:** There is no preconditions for this use case.

**Post Conditions:**

User will log out successfully and cannot use the application without logging in again.

**Main Success Scenario:**

1. Use case begins when any initiator clicks on "Logout".
2. The system will move the user session and the user is logged out.

## ➤ Use Case 5:

**Identifier and Name:** Add Order Coordinator

**Initiator:** Admin

**Goal:** The admin adds the order coordinator's information.

**Pre Conditions:**

Admin must login successfully and has the information about the order coordinator.

**Post Conditions:**

The information is saved on the system, and the order coordinator is added to the system and granted access.

**Main Success Scenario:**

1. Open the web application and the admin login successfully.
2. Go to the order coordinator page.
3. Add the information about the order coordinator.

## ➤ Use Case 2:

**Identifier and Name:** Login

**Initiator:** User, Admin, Order Coordinator, Accountant, Owner

**Goal:** User access the system.

**Pre Conditions:**

User, Admin, Order Coordinator, Accountant, and Owner must have an account.

**Post Conditions:**

Logged into the system then enter to home page then he can go to his profile that has its data which saved in the database.

**Main Success Scenario:**

1. Open the web application.
2. Enter a valid e-mail and password.

## ➤ Use Case 4:

**Identifier and Name:** Add Admin

**Initiator:** Owner

**Goal:** The Admin can login into the system.

**Pre Conditions:**

The owner must log in successfully and has the information about the admin.

**Post Conditions:**

The information is saved on the system and the admin is added to the system and given permission to access the system.

**Main Success Scenario:**

1. Open the web application and the owner login successfully.
2. Go to the admin page.
3. Add the information about the admin.

## ➤ Use Case 6:

**Identifier and Name:** Edit Profile

**Initiator:** User, Admin, Order Coordinator, Accountant, Owner

**Goal:** Any initiator can change their information and update it.

**Pre Conditions:**

User must be logged in successfully.

**Post Conditions:**

Profile updated with the new data.

**Main Success Scenario:**

1. Open the web application and login successfully.
2. Go to the profile.
3. Edit his information.

#### ➤ Use Case 7:

**Identifier and Name:** Add Accountant

**Initiator:** Admin

**Goal:** The admin adds the accountant's information.

**Pre Conditions:**

Admin must login successfully and has the information about the accountant.

**Post Conditions:**

The information is saved on the system and the accountant is added to the system and given permission to access it.

**Main Success Scenario:**

1. Open the web application and the admin login successfully.
2. Go to the accountant page.
3. Add the information about the accountant.

#### ➤ Use Case 9:

**Identifier and Name:** Add Labs

**Initiator:** Admin

**Goal:** The admin can add the information of laboratories.

**Pre Conditions:**

The admin must login successfully and has the information about the laboratory.

**Post Conditions:**

The information is saved on the system and the laboratory is added to the system.

**Main Success Scenario:**

1. Open the web application and the admin login successfully.
2. Go to the laboratories page.
3. Add the information about the laboratories.

#### ➤ Use Case 11:

**Identifier and Name:** Add Dose Calculator

**Initiator:** Admin

**Goal:** The admin adds calculator to know the appropriate number of doses.

**Pre Conditions:**

Admin must login successfully and has the information required.

**Post Conditions:**

The information is saved and the system return number of dose to user depend on the person's case.

**Main Success Scenario:**

1. Open the web application and the admin login successfully.
2. Go to the dose calculator and click on it.
3. Enter the product name, age, state, and dose number.

#### ➤ Use Case 8:

**Identifier and Name:** Add Doctors

**Initiator:** Admin

**Goal:** The admin can add the information of doctors and the user can find the doctors around him.

**Pre Conditions:**

Admin must login successfully and has the information about the doctor.

**Post Conditions:**

The information saved on the system and the doctor added on the system.

**Main Success Scenario:**

1. Open the web application and the admin login successfully.
2. Go to the [doctors](#) page.
3. Add the information about the doctors.

#### ➤ Use Case 10:

**Identifier and Name:** Add Announcements

**Initiator:** Admin

**Goal:** The admin adds any announcements about services.

**Pre Conditions:**

The admin must have an account and log in successfully.

**Post Conditions:**

The information is saved on the system and appears to the user on the home page.

**Main Success Scenario:**

1. Open the web application and the admin login successfully.
2. Go to announcements page.
3. Add the information about the announcement.

#### ➤ Use Case 12:

**Identifier and Name:** Add news.

**Initiator:** Admin

**Goal:** News added successfully.

**Pre Conditions:**

Admin must login successfully.

**Post Conditions:**

The news added on the system and user can be able to see the data of news.

**Main Success Scenario:**

1. Open the web application and the admin login successfully.
2. Admin press on add news.
3. Enter the information required and press add.

#### ➤ Use Case 13:

**Identifier and Name:** Add type of product

**Initiator:** Admin

**Goal:** Type added successfully.

**Pre Conditions:**

Admin must login successfully and have information required.

**Post Conditions:**

The type added on the system and user can be able to see the data of type of product on the system.

**Main Success Scenario:**

1. Open the web application and the admin login successfully.
2. Admin press on add type.
3. Enter information required and then press add.

#### ➤ Use Case 15:

**Identifier and Name:** View notification of reorder

**Initiator:** Admin, Owner

**Goal:** Notification to admin and owner about the product that reach reorder point.

**Pre Conditions:**

Admin and owner must login successfully.

**Post Conditions:**

The admin and owner able to see the product that reach to reorder points.

**Main Success Scenario:**

1. Open the web application and the admin login successfully.
2. System send notification to admin and owner about the product that reach reorder point.

#### ➤ Use Case 17:

**Identifier and Name:** Add Product

**Initiator:** Admin

**Goal:** The admin can add any product to the system.

**Pre Conditions:**

Admin must login successfully and has the information required.

**Post Conditions:**

The information is saved and the user can view product information in detail.

**Main Success Scenario:**

1. Open the web application and the admin login successfully.
2. Go to the products page.
3. Add all the information about the product.

#### ➤ Use Case 14:

**Identifier and Name:** View notification of expire

**Initiator:** Admin, Owner

**Goal:** Notification to admin and owner about the product that the expire date.

**Pre Conditions:**

Admin and owner must login successfully.

**Post Conditions:**

The admin and owner able to see the product that will be expire soon.

**Main Success Scenario:**

1. Open the web application and the admin login successfully.
2. System send notification to admin and owner about the product that the expire date less than three months.

#### ➤ Use Case 16:

**Identifier and Name:** Add product to cart

**Initiator:** User

**Goal:** The user can see all orders that need to be confirmed.

**Pre Conditions:**

The user has an account and successfully logs in to the system.

**Post Conditions:**

Product add to cart.

**Main Success Scenario:**

1. Open the web application and the user login successfully.
2. Go to the home page.
3. Select the product that he want to order.
4. Click on the product and it will be added to his cart.

#### ➤ Use Case 18:

**Identifier and Name:** Live Session

**Initiator:** User

**Goal:** The user can ask the doctor any question.

**Pre Conditions:**

User must has an account and login successfully

**Post Conditions:**

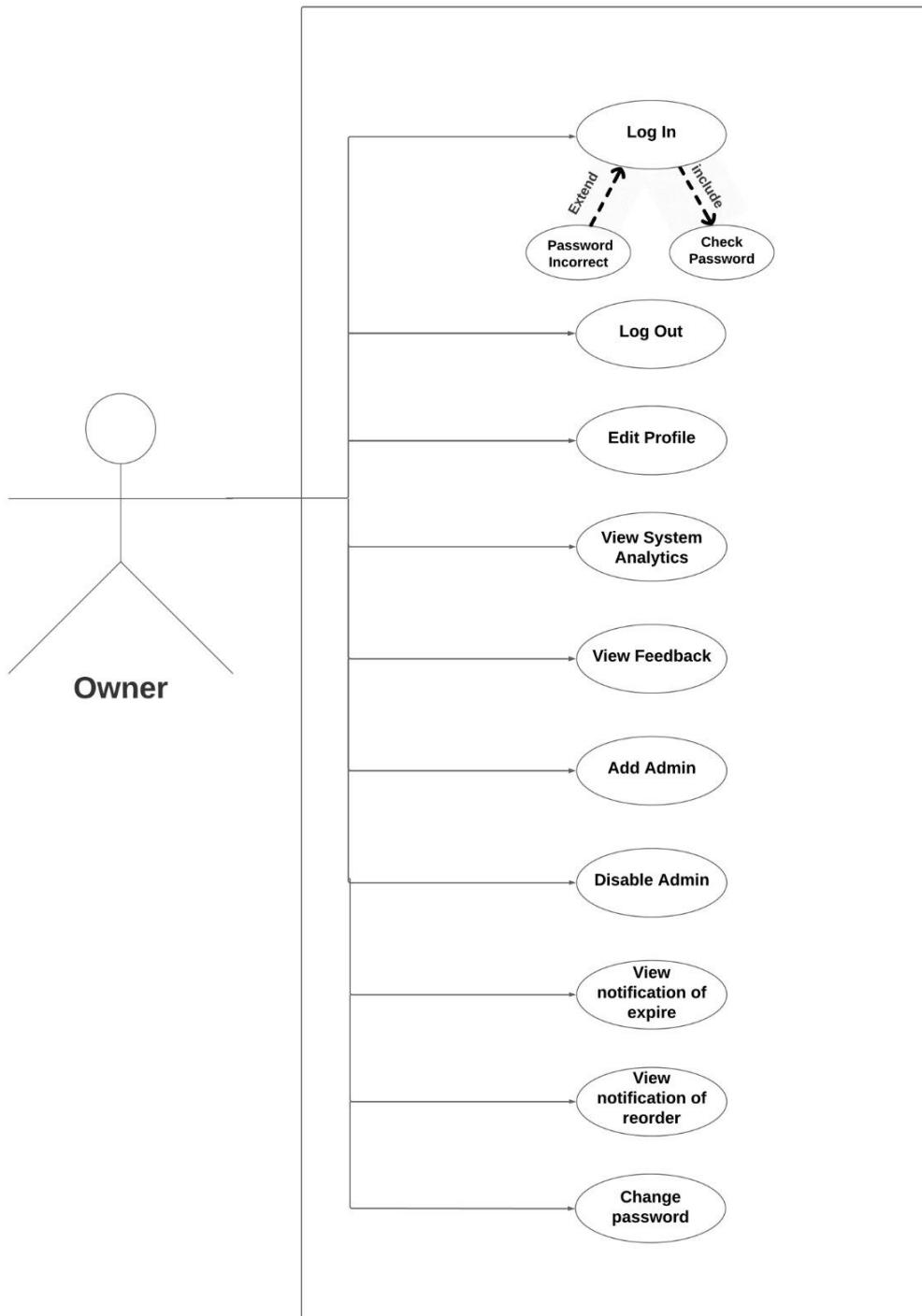
Join to live session.

**Main Success Scenario:**

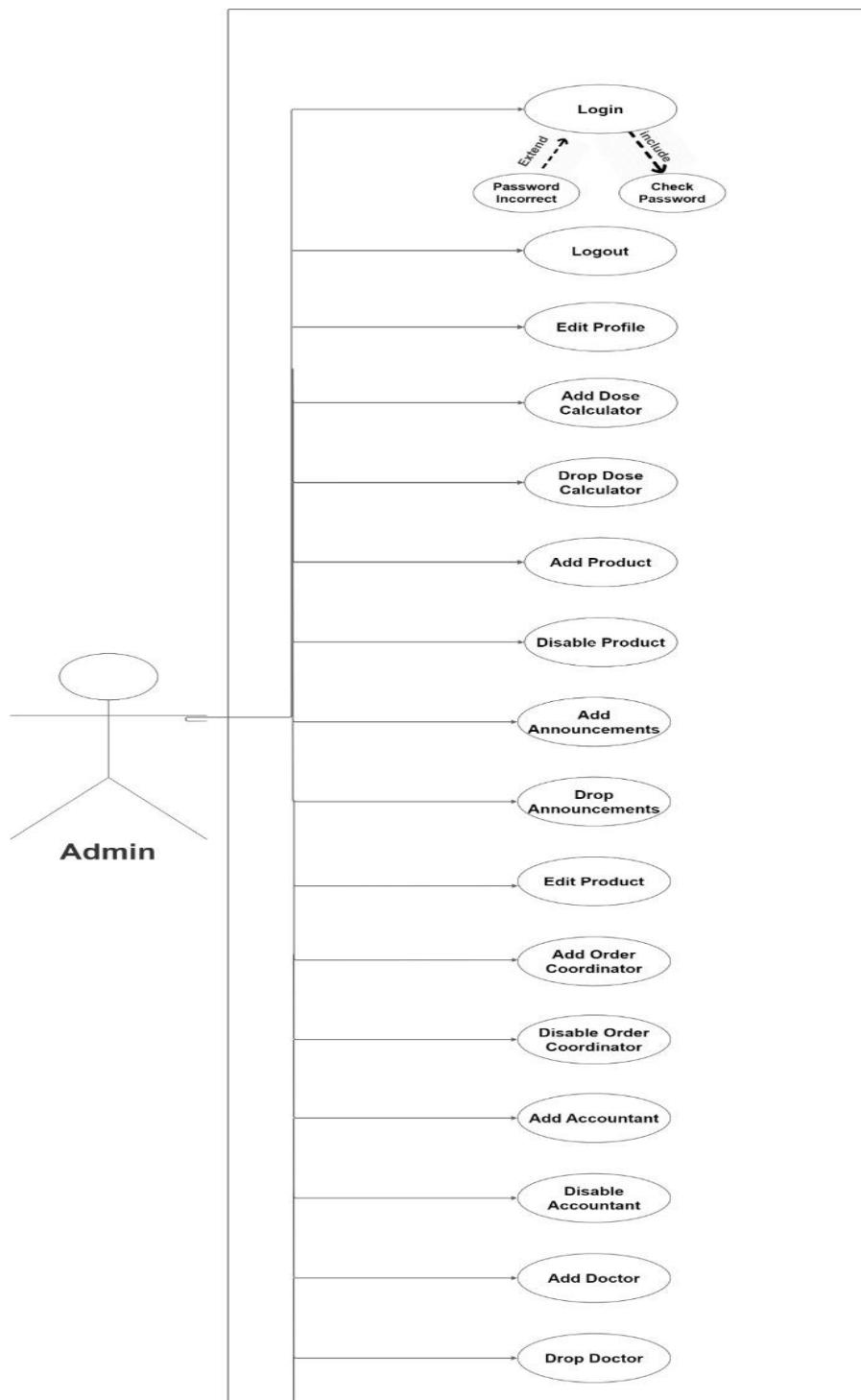
1. Open the web application and login successfully.
2. Go to the live session.
3. Click and join.

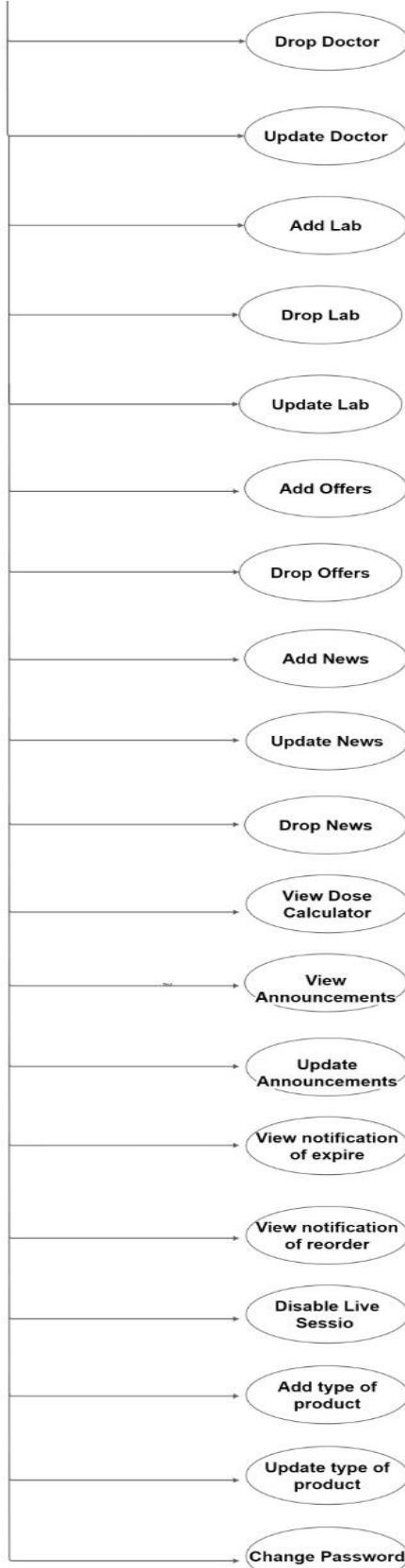
## Use case diagram

. Owner

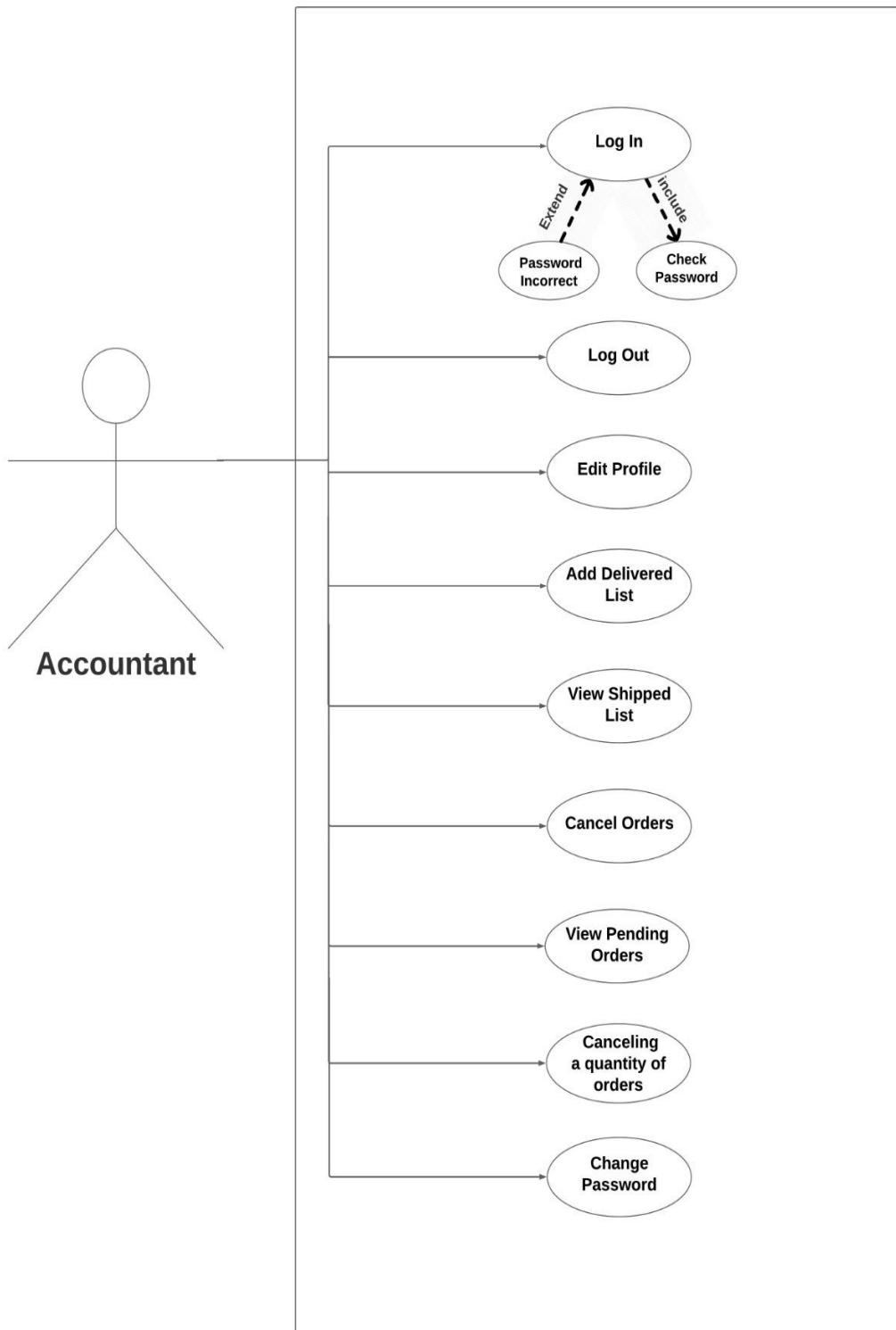


## . Admin

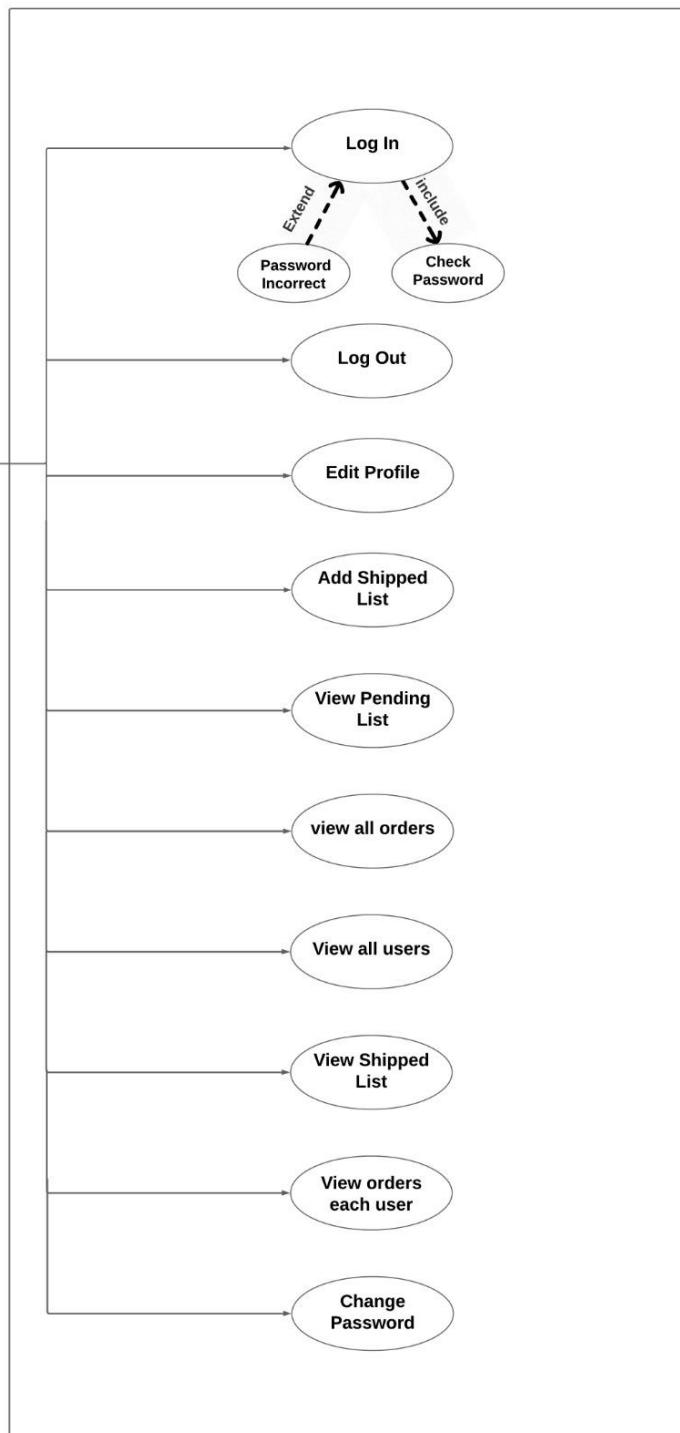
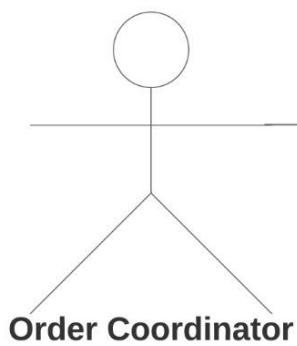




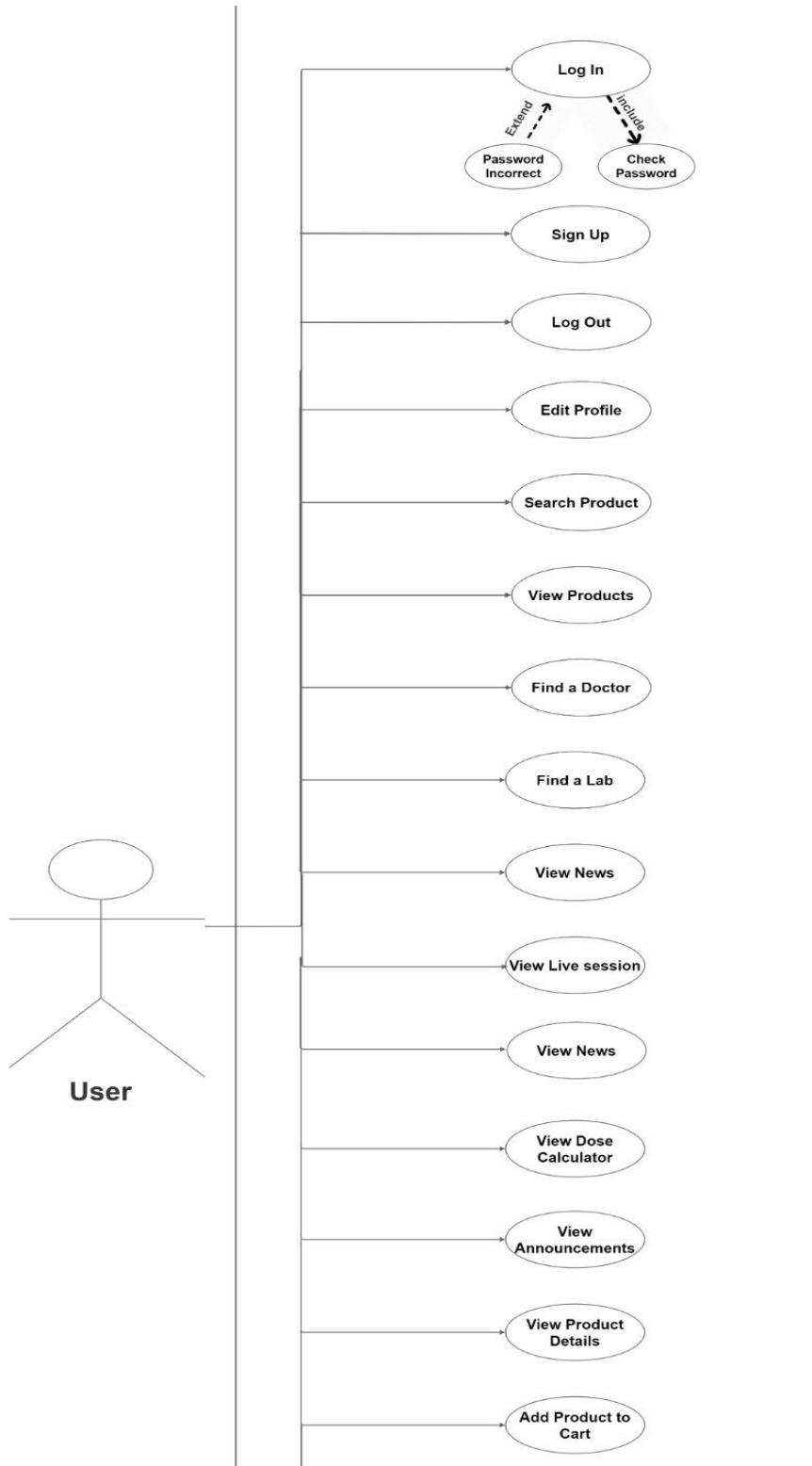
## . Accountant

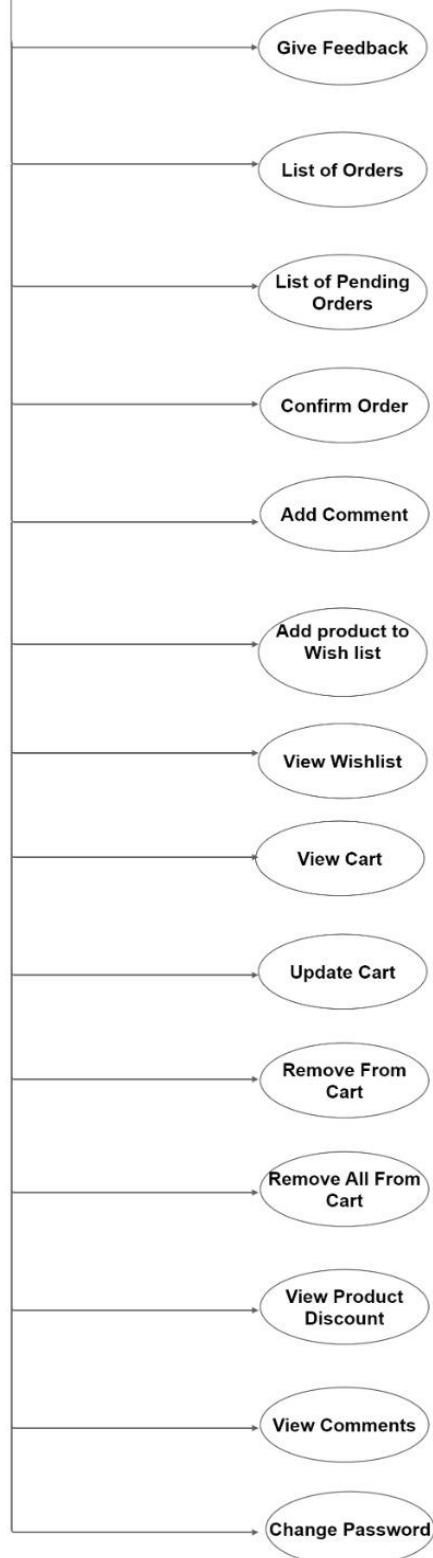


## . order coordinator



## . User





## Chapter 4

### **4-Testing**

In this chapter we are going to discuss and go deeper in Encyclopedia Of online pharmacy website testing, and present the types of testing to be used and test cases we examined our website through.

#### **4.1 Functional Testing:**

##### **4.1.1 Unit Testing**

Testing of individual items (e.g., modules, programs, objects, classes, etc.) Usually as part of the coding phase, in isolation from other development item sand the system as a whole.

##### **4.1.2 Integration Testing**

Testing the interfaces between major (e.g., systems level application modules) and minor (e.g., individual programs or components) items within an application which must interact with each other.

### 4.1.3 System Testing

Testing a system behavior as a whole when development is finished, and the system can be tested as complete entity.

### 4.1.4 Acceptance Testing

Testing to ensure that a development is ready to be deployed into the business, operational or production environment.

## 4.2 Non-Functional

### 4.2.1 Performance Testing

Accomplished a designated function regarding processing time and through put rate.

### 4.2.2 Load Testing

Measuring the behavior of within creasing load which can be handled by the component or system.

### 4.2.3 Stress Testing

Evaluate a system or component at or beyond the limits of its specified requirements.

### 4.2.4 Security Testing

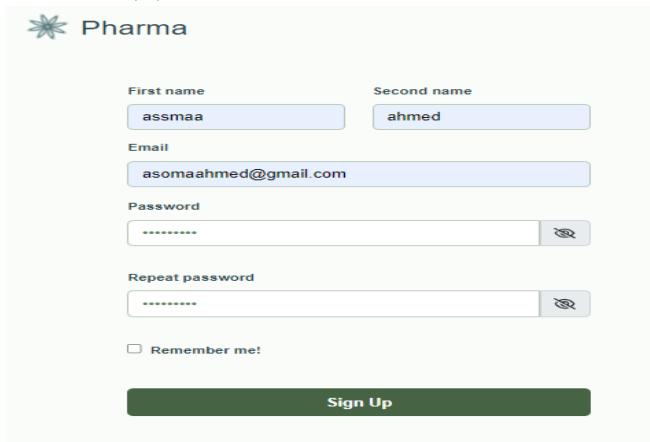
Testing how well the system protects against unauthorized internal or external access.

## 4.3 Additional Testing

Project Name: online pharmacy

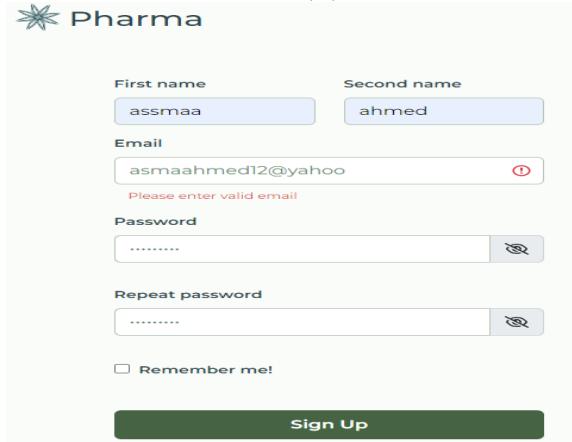
### Register:-

(1)



The screenshot shows a sign-up form for 'Pharma'. The fields are filled as follows: First name: asmaa, Second name: ahmed, Email: asomaahmed@gmail.com, Password: (obscured), Repeat password: (obscured). A 'Remember me!' checkbox is unchecked. A green 'Sign Up' button is at the bottom.

(2)



The screenshot shows a sign-up form for 'Pharma'. The fields are filled as follows: First name: asmaa, Second name: ahmed, Email: asmaahmed12@yahoo (with an error message: 'Please enter valid email'), Password: (obscured), Repeat password: (obscured). A 'Remember me!' checkbox is unchecked. A green 'Sign Up' button is at the bottom.

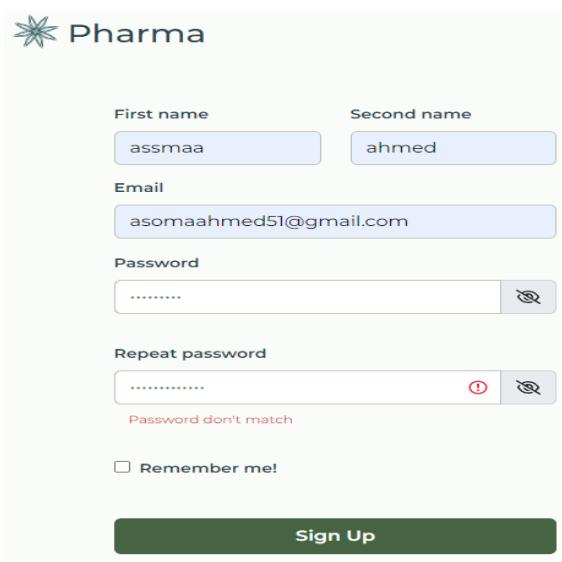
(1)

Test Case	Test steps	Test data	Result
Register with complete and valid data	1-press sign up 2-enter data 3-press sign up	Personal data(first name , second name, email, password,repeat password)	1-Account created successfully logged in

(2)

Test Case	Test steps	Test data	Result
Register with complete and invalid data	1-press sign up 2-enter data 3-press sign up	Personal data(first name , second name, email(invalid), password,repeat password)	1- display invalid data

(1)



Pharma

First name: assmaa  
Second name: ahmed

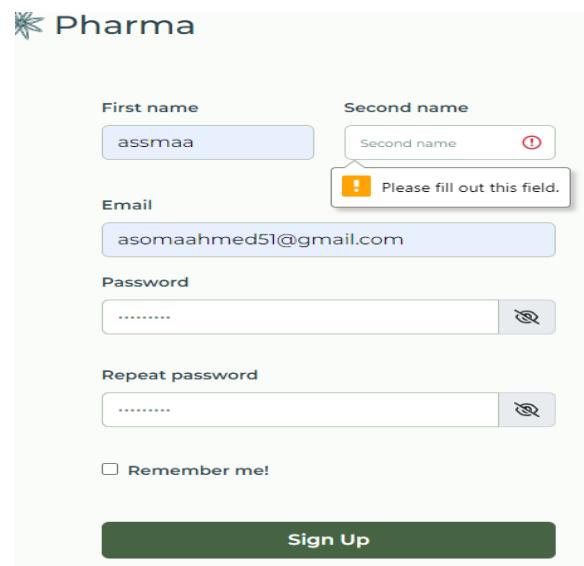
Email: asomaahmed51@gmail.com

Password: .....  
Repeat password: .....  
Password don't match

Remember me!

**Sign Up**

(2)



Pharma

First name: assmaa  
Second name: \*

Email: asomaahmed51@gmail.com  
! Please fill out this field.

Password: .....  
Repeat password: .....

Remember me!

**Sign Up**

(1)

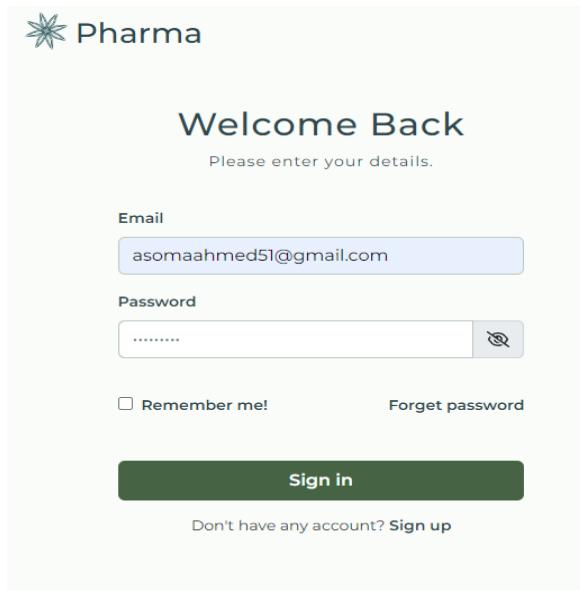
Test Case	Test steps	Test data	Result
Register with complete and incorrect data	1-press sign up 2-enter data 3-press sign up	Personal data(first name , second name, email, password,repeat password(incorrect))	1-display incorrect data

(2)

Test Case	Test steps	Test data	Result
Register with incomplete and valid data	1-press sign up 2-enter data 3-press sign up	Personal data(first name , second name, email, password,repeat password)	Display error message to incomplete fields

## login

(1)



Welcome Back  
Please enter your details.

Email  
asomaahmed51@gmail.com

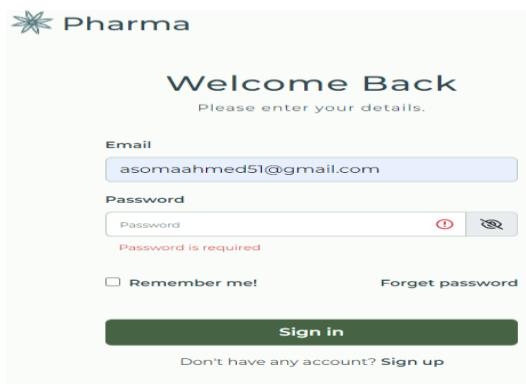
Password  
.....

Remember me! [Forget password](#)

**Sign in**

[Don't have any account? Sign up](#)

(2)



Pharma

Welcome Back  
Please enter your details.

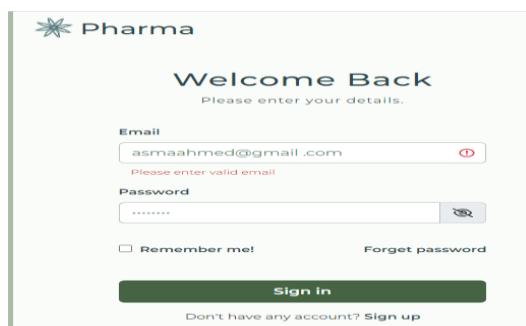
Email  
asomaahmed51@gmail.com

Password  
.....

Remember me! [Forget password](#)

**Sign in**

[Don't have any account? Sign up](#)



Pharma

Welcome Back  
Please enter your details.

Email  
asmaahmed@gmail.com (1)  
Please enter valid email

Password  
.....

Remember me! [Forget password](#)

**Sign in**

[Don't have any account? Sign up](#)

(1)

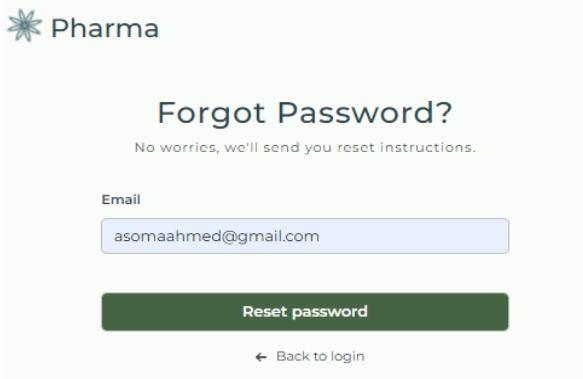
Test Case	Test steps	Test data	Result
login with valid email and valid password	1-enter email 2-enter password 3-press login	Personal data( email, password)	1-Account sign in successfully

(2)

Test Case	Test steps	Test data	Result
login with invalid email or invalid password	1-enter email 2-enter password 3-press login	Personal data( invalid email,or invalid password)	1-display invalid

## Forget password

(1)



Pharma

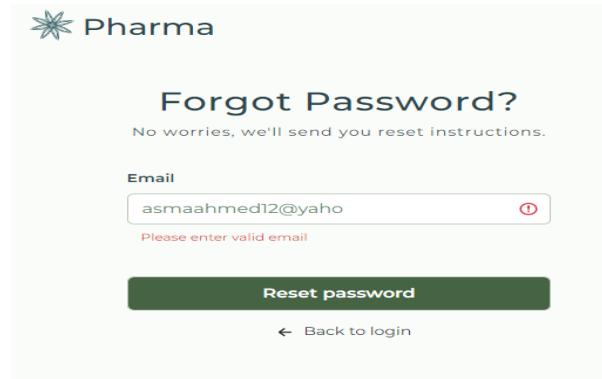
**Forgot Password?**  
No worries, we'll send you reset instructions.

Email  
asomaahmed@gmail.com

Reset password

← Back to login

(2)



Pharma

**Forgot Password?**  
No worries, we'll send you reset instructions.

Email  
asmaahmed12@yahoo

Please enter valid email

Reset password

← Back to login

(1)

Test Case	Test steps	Test data	Result
Forget password with valid email	1-enter email 2-press reset	Personal data( email)	1-valid email

(2)

Test Case	Test steps	Test data	Result
Forget password with valid email	1-enter email 2-press reset	Personal data( email)	1-invalid email

(1)



### Reset Password

Enter the code that we have sent through your email.

Password

 ① 👁

Password must be at least 8 characters

Repeat password

 ① 👁

Confirm Password is required

**Reset password**

Resend code

(2)



### Reset Password

Enter the code that we have sent through your email.

Password

 👁

Repeat password

 👁

**Reset password**

Resend code

(1)

Test Case	Test steps	Test data	Result
reset password with invalid data	1-enter code 2-enter password 3- press reset	Personal data( code,password)	1-display invalid

(2)

Test Case	Test steps	Test data	Result
Forget password with valid data	1-enter code password:2 3- press login	Personal data( code,password)	1-forget password successfully

## Verification

 Pharma

### Verification Code

Enter the four digits code that we have sent through your email.

! Please fill out this field.

**Continue**

[← Back to signup](#)

 Pharma

### Verification Code

Enter the four digits code that we have sent through your email.

**Continue**

[← Back to signup](#)

Test Case	Test steps	Test data	Result
Verification with invalid data	1-enter code 2- press continue	Personal data( code)	1- invalid code

Test Case	Test steps	Test data	Result
Verification with valid data	1-enter code 2- press continue	Personal data( code)	1-verification successfully

## Edit profile

(1)

### EDIT PROFILE

First name

Second name

City

Address

Phone number

Photo

**Submit**

assmaa

Second name

ahmed

Your changed is updated sucessfully

hurghada

Phone number

+20 01044400000

Photo

download.jpeg

**Submit**

Test Case	Test steps	Test data	Result
Edit profile	1-enter data 2- press submit	Personal data( first name,second name,city,address,phone,photo)	1-update successfully

## Edit email

**EDIT PROFILE**

Email

**Submit**

**EDIT PROFILE**

Verification Code

Enter the four digits code that we have sent through your email.

**Continue**

[Resend code](#)

Test Case	Test steps	Test data	Result
Edit email	1-enter email 2- press submit	Personal data( email)	1- valid code

**EDIT PROFILE**

Email

Your email is not changed!

**EDIT PROFILE**

Verification Code

Enter the four digits code that we have sent through your email.

Verification code is incorrect, try again!

Test Case	Test steps	Test data	Result
Edit email ( invalid)	1-enter email 2- press submit	Personal data((invalid) email, or code)	1- display invalid

## checkout

(1)

BILLING DETAILS

City

Order confirmation is done successfully check your orders

+20

**Submit**

(2)

BILLING DETAILS

City

Address

Phone Number  
  

Phone number is required ! Please fill out this field.

**Submit**

(1)

Test Case	Test steps	Test data	Result
checkout data	1-enter phone 2- press submit	Personal data( city, address, phone)	1- successfully checkout

(2)

Test Case	Test steps	Test data	Result
checkout data(invalid data)	1-enter phone 2- press submit	Personal data( city, address, phone(invalid))	1- display invalid

## Dose calculator

Weight in Kg: 55

Or select age: 22

Search trade or generic name

Panadol Extra  
500 mg paracetamol 65 mg caffeine

Panadol Baby  
120 mg/5 ml oral suspension

Aciloc 57 tab  
Ranitidine 75 mg

Weight: 55kg

**Composition**  
500 mg paracetamol 65 mg caffeine

**Dose**  
headache / muscle pain / arthritis / Rheumatic pain / back pain / toothache  
give 1 tablet dissolved in water, up to 4 times daily, do not give more frequently than every 4 hours . maximum 4 tablets in 24 hours

headache / muscle pain / arthritis / Rheumatic pain / back pain / toothache  
give 2 tablet dissolved in water, up to 4 times daily, do not give more frequently than every 4 hours . maximum 8 tablets in 24 hours

**Pregnancy**  
should not be used

**Lacation**  
should not be used

Not found

**More trade name in Egypt**

[Reference and more information](#)

Test Case	Test steps	Test data	Result
Dose calculator	1-enter age or weight 2- Choose one	Personal data( age, weight)	1- calculated successfully

## Edit Password

EDIT PROFILE

Old password  
 

This password is taken before, choose another password  
 

**Submit**

EDIT PROFILE

Old password  
 

New password  
   
Password must be at least 8 characters

Repeat password  
   
Confirm Password is required

**Submit**

Test Case	Test steps	Test data	Result
Edit password but like old password or incorrect password	1-enter password 2- press submit	Personal data(password)	1- display invalid

## Chapter 5

### 5. Result and Discussion

In this chapter we are going to find out the results of the project whether they are achieved or not and the differences between the desired results and the actual ones.

#### 5.1 Results

##### 5.1.1 Expected Result

- Different users can sign in, login and logout
- Users can edit their profile
- Users can show dose calculator depend on age or weight
- Users can search for a specific product
- Users show offers
- Users can send feedback
- Users can show live session
- Users can request the order
- Users can cancel the request
- Users can set new password (forget password)
- User can show News
- User can show doctors and their appointments
- User can show labs (its location and times)
- User can view products according to their type
- User can show cart
- User can show all the orders he requested, whether they arrived or not
- User can update cart ( increase –decrease- cancel – delete )any order
- User can make any product he wants in his favourites
  
- Admins can add or delete order coordinator and accountant

- Admins can add or delete or update product
- Admins can add or delete or update types of product
- Admins can add or delete or update discount
- Admins can add or delete or update labs
- Admins can add or delete or update doctors
- Admins can add or delete or update live session
- Admins can add or delete or update news
- Admins update profile
- Admins can show notification of the expire date and reorder point
- Owner can add or delete admin
- Owner can show notification of the expire date and reorder point
- Owner can show the statistics of the system (number of products, doctors, admins, labs)
- Order coordinator can show the order that the user is asking for
- Order coordinator make order shipped
- Accountant show the shipped order
- Accountant makes order canceled or delivered
- Show to the user a product nomination based on his interests through his previous orders
- Chat bot

### 5.1.2 Actual Result

- Different users can sign in, login and logout
- Users can edit their profile
- Users can show dose calculator depend on age or weight
- Users can search for a specific product
- Users show offers
- Users can send feedback
- Users can show live session
- Users can request the order
- Users can cancel the request
- Users can set new password (forget password)
- User can show News
- User can show doctors and their appointments
- User can show labs (its location and times)

- User can view products according to their type
- User can show cart
- User can show all the orders he requested, whether they arrived or not
- User can update cart (increase –decrease- cancel – delete) any order
- User can make any product he wants in his favourites
- Admins can add or delete order coordinator and accountant
- Admins can add or delete or update product
- Admins can add or delete or update types of product
- Admins can add or delete or update discount
- Admins can add or delete or update labs
- Admins can add or delete or update doctors
- Admins can add or delete or update live session
- Admins can add or delete or update news
- Admins update profile
- Admins can show notification of the expire date and reorder point
- Owner can add or delete admin
- Owner can show notification of the expire date and reorder point
- Owner can show the statistics of the system (number of products, doctors, admins, labs)
- Order coordinator can show the order that the user is asking for
- Order coordinator make order shipped
- Accountant show the shipped order
- Accountant makes order canceled or delivered

## 5.2 Discussion

There is a little difference between the expected and actual result except because of Need experience in data availability, technical expertise in area such as NLP , Machine learning , data analysis, software development , and ensuring user acceptance for the success of the system

We have added new features into our application such as Dose calculator and live session

## Chapter 6

### 6. Conclusion

Eventually, during this project we tried to create the most effective we will avoid exploitation and it is simply the way of expressing our duty towards our society as we felt accountable enough to participate in creating this community a stronger place with one amongst the foremost powerful tools

we can use and that we selected as our finding out field years past that is TECHNOLOGY.

In summary, we tried to do our best in Encyclopedia of online pharmacy web application and provide a lot of real and helpful resources and features that we help the patient and they first sign up with the name and unique email address and also a password.

Then he can log in and search for the products, or search for a doctor or lab or show live session or work through the application.

Our project aims to connect the online world with the offline one to help patient.

Hope that is a satisfied application for you.

## Chapter 7

### 7. Future Work

We are going to add more and more features to our application such as:

1. Makes the application works with many language .
2. Chat Room to know the user about the benefit of the all products and the reason to use it .
3. The possibility of sending the prescription and the doctor will dispense the treatment.
4. Let the back-end work on a mobile application and support an internal system for the pharmacy so that the system supports online and offline sales.
5. The system provides internal services that the user can request online, such as measuring pressure, sugar and temperature
6. The possibility of using GBT chat in the system, and allow the user to ask about the validity of the answer to the question

So, we will not miss any chance to keep working as a team on that project and enhancing it after graduation as we are looking forward to turning this application into work environment that serves the citizen. Our dream started with this idea months ago, and we will insist on not letting go of it and not letting it be just a dream