



MedBot

Software Project -1

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DECLARATION

This is to certify that this project is our original work. No part of this work has been submitted elsewhere partially or fully for the award of any other degree or diploma. Any material reported in this project has been properly acknowledged.

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APPROVAL

The Project titled “MedBot” has been submitted to the following respected members of the board of examiners of the Faculty of Science & IT, American International University – Bangladesh [AIUB] in partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science and Software Engineering on October 21, 2020 and has been accepted as satisfactory.

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PROJECT SUMMARY

This project is a web-based application which connects the pharmacy and their customer in fast and secure way. The system can be accessed from any device with a modern web-browser and internet connection as it is a web application. Here pharmacy owners can register their pharmacy in the system by giving the information to the admins who will add them in the system. A customer can sign-up to the system by giving necessary information and then start ordering the medicines in the proper way. When a customer orders, pharmacy owner or manager can log in to the system and check the orders to initiate deliveries. The application provides an optimized route for multiple delivery points for least time. The system uses GPS connection and IP location to fetch and display the user's location, delivery man's location and pharmacy location.

CHAPTER 1

INTRODUCTION

The “MedBot” is a Medicine ordering web application which is focused in fastest transactions, minimal interface and optimal delivery system. We are doing this application for the people who does not or cannot go out for medicine and they need the medicine fast. This application will help people both in the customer side who will buy medicine through the app also the pharmacy owner who will sell the medicine as we provide an optimized delivery route for least time and maximum delivery. The Medicine generic and price will be on the go and our auto saved cart will make the order system easier as user's can order last orders on the go or can add items to cart for later times.

1.1 Purpose

The Purpose of this document is to give a detailed description of the “MedBot” application. It will visualize the purpose and complete declaration for the development of the system. It will also explain certain system constraints, interface and interactions with other external applications. This will also illustrate how the map integration has been done and third party opens source API were used. This document is primarily intended to be proposed to a customer for its approval and a reference of the first version of the system.

1.2 Background to the Problem

Our application will help to find available medicines in the nearest pharmacy and buy them through online in a very fast way. User can search for medicines or go through the categories. As medicines are sensitive products, user need to upload prescriptions for adding any medicine to the CART which is must be prescribed flagged. The application can detect both user, delivery man and shop's location and provide a least time-based optimized delivery route for multiple orders throughout the area. As being a web application, it can be accessible from any devices with internet connection and modern web browsers.

1.3 Project Scope

“MedBot” is web application which helps customers to buy medicines online in a fast and secure way from the nearest pharmacy available. User can add items to cart and it will be saved automatically for future orders. User can search for medicines or browse through categories. This is a web application and can be accessible from any online devices.

Pharmacy owners can register in the application with the help of admin panel by giving all the necessary information of his pharmacy. They can add new items by sending them to the admin for reviews. Administrator will verify the pharmacy information and other item lists.

Furthermore, the application uses OpenStreet [11] map for getting location info and provide delivery system which is developed by Mapbox [12]. The application will also provide the optimized route for fastest delivery base on least time. It can detect user's location as well as delivery man, and with all new orders it updates the route for multiple delivery at a given time.

1.4 Intended Audience and Reading Suggestions

The intended audience for this document is the project sponsor, business analyst, customers, the development team and the team advisor. Throughout the rest of this document, the project will be broken up into sections.

The First section provides an overview of the purpose of the application and why the application has been developed, who will use this application and how can they be benefitted from the system.

The second sections provide an overview of the applications that we studied and analyzed before developing our project. We categorized the applications and extracted the features used in those applications in order to find a possible improvement.

The third section provides the perspective of the project in detailed terms and a description of the product features. User classes and their characteristics have been specified also. Also listed all the working operating environments as well as all the constraints are identified.

The fourth section provides different user scenarios with a description of the different system interfaces. Necessary analysis models, UMLs and interface workflow are represented as well.

Fourth section described all the product features that can be performed by using the application. In the end all the non-functional requirements will be described which includes performance, security as well as some other quality attributes.

The fifth section describes all features that were implemented and why they are required. It also describes the features of functional requirement and how they work.

The sixth section describe the testing plan and process. User-acceptance, regression and system testing these three types of testing performed in testing phase. It helps to find out the defects of application during the development process. It's essential since it makes sure of the Customer's reliability and their satisfaction in the application.

The seventh section describes the future work that means the features which were not implemented yet in our application and also describe how it can contribute to the society.

CHAPTER 2

EXISTING APPLICATION / SYSTEM STUDY

This section illustrates the existing systems or applications that we studied before developing this system. We have observed 10 systems for this purpose. Among them 5 are International Systems/Applications and 5 are our Domestic Systems/Applications. We have marked the features that they have and extracted the features with respect to the applications.

2.1 List of Domestic Applications / Systems

- Pickaboo.com [1]
- Chaldal.com [2]
- Backpackbang.com [3]
- Othoba.com [4]
- Shawpno.com [9]

2.2 List of International Applications / Systems

- UberEATS [6]
- Amazon.com [7]
- Aliexpress.com [8]
- Netmeds.com [10]
- Foodpanda.com [5]

2.3 Features in Existing Applications/ Systems

We have extracted in total 37 features from the above-mentioned applications/systems. These features are displayed in Table-1.

Table-1: List of Features

Feature no	Feature
1	Signing up and login to the system

2	Adding item to the cart
3	Saving cart
4	Saving payment options
5	Checking history and credentials
6	Searching item
7	Rating delivery
8	Updating user info
9	Changing password
10	Adding new item
11	Exclusive Offers
12	Updating quantity in cart
13	Commenting on reviews of item or delivery
14	Selecting delivery time from the available schedule
15	Live chat for Questions and Answers
16	Multiple Language
17	Requesting Product
18	Newsletter subscription
19	Review own product reviews from past
20	Extra loyalty points for offers
21	Add Promo Code
22	Sign Out
23	Sign up to deliver
24	Get Gift Card
25	Select Currency

26	Select Payment methods at checkout
27	Item details with user reviews
28	Recent search history
29	Featured suggestion
30	Recently viewed
31	Add delivery note
32	Select delivery type
33	Currency converter
34	Wishlist
35	Buyer protection
36	Invite Friends
37	Disputes and reports

2.4 Features

Table-2 shows the features with respect to the individual applications. It also sums up how many features were found on which application/system.

Table-2: List of Features

Ft. no	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	Total
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10
4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10

5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10
6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10
7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10
8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10
9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10
10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10
11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10
12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10
13	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	9
14	X	✓	X	X	X	X	X	X	X	X	X	1
15	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9
16	✓	X	X	X	✓	X	✓	✓	✓	✓	X	5
17	X	✓	✓	X	X	X	X	X	X	X	X	2
18	✓	X	X	X	X	X	✓	✓	✓	✓	X	4
19	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	X	8
20	✓	X	X	✓	X	X	✓	✓	✓	✓	X	5
21	X	X	X	✓	✓	✓	✓	✓	✓	✓	X	6
22	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10
23	X	X	X	X	X	✓	X	X	X	X	X	1
24	X	X	✓	X	X	✓	✓	✓	✓	✓	X	5
25	X	X	✓	X	X	X	✓	✓	✓	✓	X	4
26	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9
27	✓	X	✓	✓	✓	✓	✓	✓	✓	X	✓	8
28	X	X	X	✓	X	X	✓	✓	X	X	X	3
29	✓	X	✓	✓	✓	✓	✓	✓	✓	X	✓	8

30	✓	X	✓	✓	✓	✓	✓	✓	X	✓	8
31	X	✓	X	X	X	X	X	X	X	X	1
32	X	X	X	X	X	X	✓	✓	X	X	2
33	X	X	X	X	X	X	✓	X	X	X	1
34	X	X	X	X	X	X	X	✓	X	X	1
35	X	X	X	X	X	X	X	✓	X	X	1
36	X	X	X	X	X	X	X	✓	X	X	1
37	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10
Total	22	21	24	24	21	24	30	32	24	20	

CHAPTER 3

REQUIREMENT SPECIFICATIONS

This section will give an overview of the whole system. It will explain the system in its context to show how it can interact with other systems and introduce the basic functionality of it. It will also describe what type of stakeholders will use the system and what functionality is available for each type. At last, the constraints and assumptions for the system will be presented.

3.1 Application Perspective

This is a web-based application which will use GPS map system for location system and it will use a database for storing all the data as it is a data-centric product. For the GPS map we will be using google map integration by which we will locate the user's location and track of the delivery. The application will be using minimal design aesthetics and soft color palettes within the whole system.

3.2 Application Features

An online shop is meant for immediate reach for items to the customer in the necessary moment and with delivery system it simplifies the whole process for the customer. Medicine is something very sensitive and urgent for people. It is a regular need nowadays for everyone which is a matter of such sorrow but yet true. In Bangladesh there is no online medicine delivery system from where customers can easily order necessary medicine whenever they want to and get it in the fastest possible time. As for such medicine which are not allowed to be sold without a doctor's prescription, the customer must upload proper documents and it will be stored in the user's account. However, people will benefit from this system in their regular life. This application will provide the best route for the delivery man to deliver multiple deliveries at the same time schedule with the same start in an efficient approach. This best route will be given to the pharmacy employee before the schedule starts with a specific delivery man.

3.3 User Characteristics

There are four types of users in this application which are "Unregistered user", "Registered user", "Pharmacy Owner or Employee" and "Admins". Unregistered users will be those who can see the application without signing up and just go through it to see if they are interested. Registered users are the actual customers who signed up to the system to order medicine or use it anyway. Pharmacy Owner or Employee are those users who will accept the order and prepare the delivery process by the information given from the system. The admins are those users who will look up to the system for developing new features and security concerns and other administrative works.

3.4 Requirements for End User

This section will describe the feature requirements for all types of users.

3.4.1 Requirements for Unregistered User

As an Unregistered User,
I want to search medicine
So that I get to know that they are available.

As an Unregistered User,
I want to add medicine to the cart
So that I get to know how much they cost as total.

As an Unregistered User,
I want to register
So that I can use the system.

As an Unregistered User,
I want to see medicine categories
So that I get to know that they are available.

3.4.2 Requirements for Registered User

As a Registered User,
I want to search medicine
So that I get to know that they are available.

As a Registered User,
I want to add medicine to the cart
So that I get to know how much they cost as total.

As a Registered User,
I want to login to the system
So that I can use the system.

As a Registered User,
I want to save cart
So that I can order later.

As a Registered User,
I want to check my account information and credentials
So that I can change or look up to them

As a Registered User,
I want to save my addresses
So that I can have my orders delivered to the specific place.

As a Registered User,
I want to rate my orders
So that I can give feedback.

As a Registered User,
I want to update the quantity of medicine in the cart
So that I can easily change the cart before placing the order to proceed.

As a Registered User,
I want to see the available delivery time schedule
So that I can choose my preferred time.

As a Registered User,
I want to request for new medicine
So that I can have my preferred medicine which is not available.

As a Registered User,
I want to add promo code
So that I can get some discounts.

As a Registered User,
I want to select payment option
So that I can pay in my preferred way.

As a Registered User,
I want to add delivery notes
So that I can say some important notes to the delivery man.

As a Registered User,
I want to see the order status
So that I get to know how my order is keeping up.

As a Registered User,
I want to give direct report or help queries
So that the system may develop or I may solve my problem with the system.

3.4.3 Requirements for Pharmacy Owner/ Employee

As a Pharmacy Owner/Employee,
I want to sign in to the system
So that I can see the orders from my pharmacy and prepare them for delivery.

As a Pharmacy Owner/Employee,
I want to see all order histories from my pharmacy
So that I can look up to them.

As a Pharmacy Owner/Employee,
I want to see the best route for the delivery man
So that he can deliver multiple orders at the same schedule in an efficient way.

As a Pharmacy Owner/Employee,
I want to add new medicine or stock in the inventory
So that the stock is always updated.

As a Pharmacy Owner/Employee,
I want to add offers for my pharmacy orders
So that I can have more orders.

3.4.4 Requirements for Admins

As an Admin,
I want to permit pharmacies to update their information
So that I can look up to them.

As an Admin,
I want to get feedback based on reviews for better usability and better user experience
So that more and more users wish to use my application.

As an Admin,
I want to update my application security, features and other privacy and policy
So that the application gets better and secure for all the users.

3.5 Operating Environment

This is a web-based application which means users can use the application from any device such as Laptop, Mobile phone, Tablet or Desktop PCs etc. which is connected to the internet.

3.6 Design and Implementation Constraints

CO-1: Only the verified users will be able to use the website to comment or post a Pharmacy review. Account must be verified after signing up.

CO-2: This website will be available to all Web browsers.

CO-3: The internet connection is also a constraint for the website. Since the website fetches data from the database over the internet, it is crucial that there is an internet connection for the website to function.

CO-4: The database system of this website will be based on SQL.

CO-5: This website will only be available in English language.

CO-6: Website itself will ensure the total security of user data.

3.7 User Documentation

UD-1: There will be an option to send any complaint, report or suggestion about user experience for improving the website.

UD-2: The system shall provide a help desk called 'SUPPORT' which will be available 24/7.

3.8 Assumption and Dependencies

AS-1: This application will be available to users 24/7.

AS-2: The application will be more user friendly to fulfill user expectations.

AS-3: Users will get the best user experiences by using the application.

AS-4: Business could be possible by advertisement medicine and pharmacy owners.

DE-1: Sign up of a user will depend on email and mobile number verification process.

DE-2: Pharmacy owner's sign up will depend on the verification process of the administration.

DE-3: As the application is online based it will be connected to a database for checking the Pharmacy's information, delivery reviews, ratings and location information as well as a user profile.

CHAPTER 4

DESIGN SPECIFICATIONS

All the user scenarios, UML Diagrams along with data dictionary will be shown and described in this section. UML Diagrams contain Use Case diagrams, Activity diagrams and Entity Relationship diagrams

4.1 User Scenario

For this application service all the user stories based on three major user characteristics are given:

Table-3: User Story

Sample Use Case	Actor	Corresponding User Stories
Sign Up	Unregistered User	As a Pharmacy Owner/ Unregistered User, I want to sign up so that I can use the application.
Login	Pharmacy Owner/ Customer	As a Pharmacy Owner/ Customer, I want to login so that I can use the application whenever I want.
Set Information	Customer	As a Customer, I want to set the information about myself, including my password.
Search Method Selection	Customer	As a Customer, I want to search in medicine by its name partially or fully.
Show Reviews	Customer	As a Customer, I want to see reviews of other's post.
Live Support	Pharmacy Owner/ Customer	As a Pharmacy Owner or a Customer, I want to contact the live support 24/7.
Assign Own Review	Customer	As a Customer I can give a review of any delivery from my account.
Rate Delivery	Customer	As a Customer I can rate delivery of my order on scale of 10.

Modifying Account Information	Customer	As a Customer I can make changes to my contact information or address information by verifying my mail or mobile number.
Remove Account	Pharmacy Owner/ Customer	As a Customer I can remove my account but have to verify a code from mobile number. As a Pharmacy owner I can remove my account but have to do it by contacting MedBot's Admin.
Advertise Medicines by Pharmacy owners	Pharmacy owner	As a Pharmacy owner I can put my advertisements to their website or application by paying MedBot.
Sign Out	Customer /Pharmacy Owner	As a Pharmacy Owner or a Customer, I can sign out from the application.
Browse Categories	Customer	As a customer, I can browse medicine by categories.
Save Cart	Customer	As a customer, I can add medicine to the cart which will be automatically saved.
Delivery Status	Customer/ Pharmacy Owner	As a customer I can see the delivery status so that I can know about my order status. As a pharmacy owner I can see the delivery status so that I can sort out next orders.
Select Payment	Customer	As a customer, I can select my preferred payment option.
Best Route	Pharmacy Owner	As a Pharmacy owner I can see the best delivery route for multiple order pickup points.

4.2 UML Diagrams

4.2.1 Use Case Diagrams

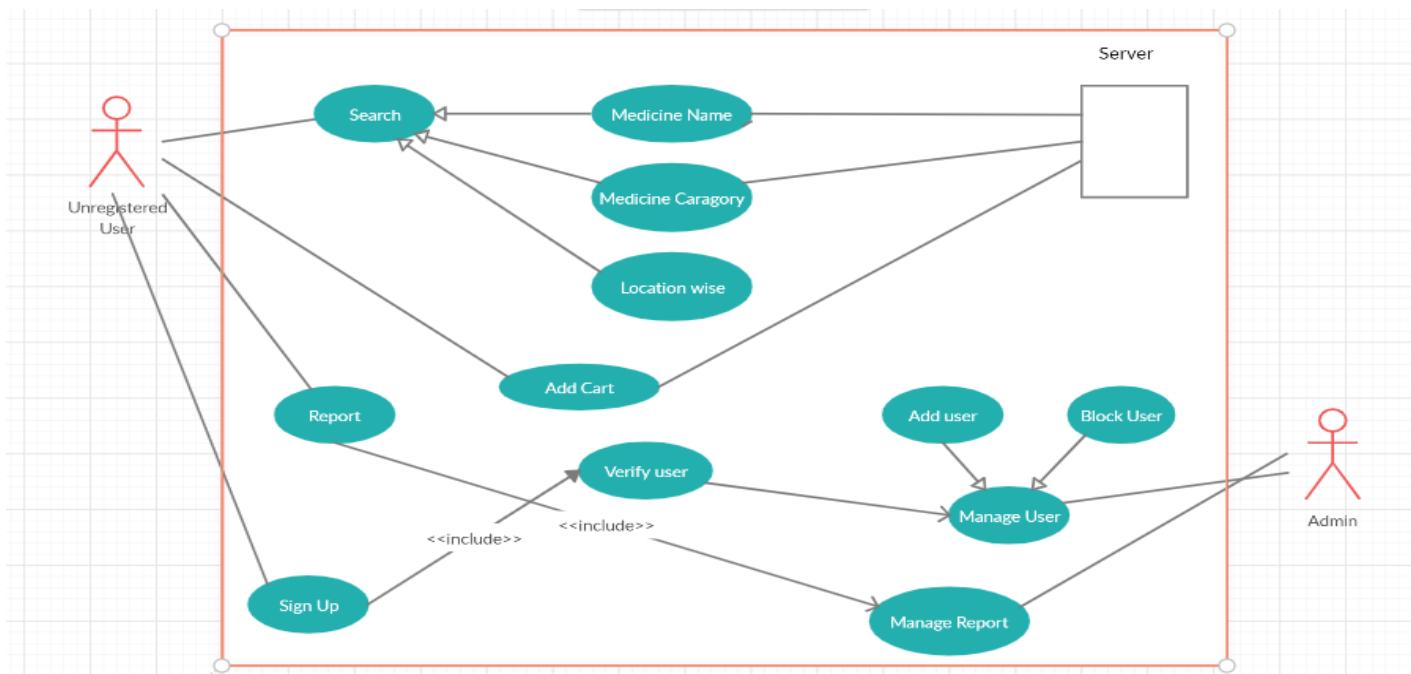


Figure 1 – Use Case Diagram for Unregistered User



Figure 2 – Use Case Diagram for Registered User

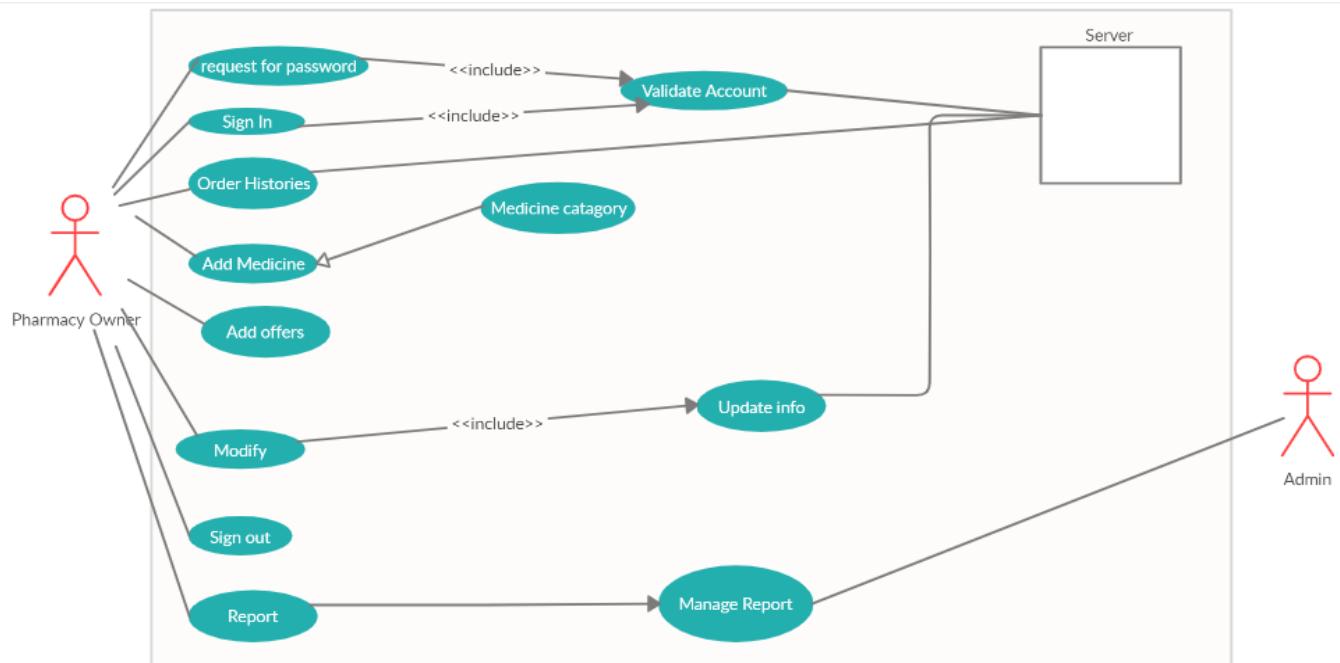


Figure 3 – Use Case Diagram for Pharmacy Owner

4.2.2 Activity Diagrams

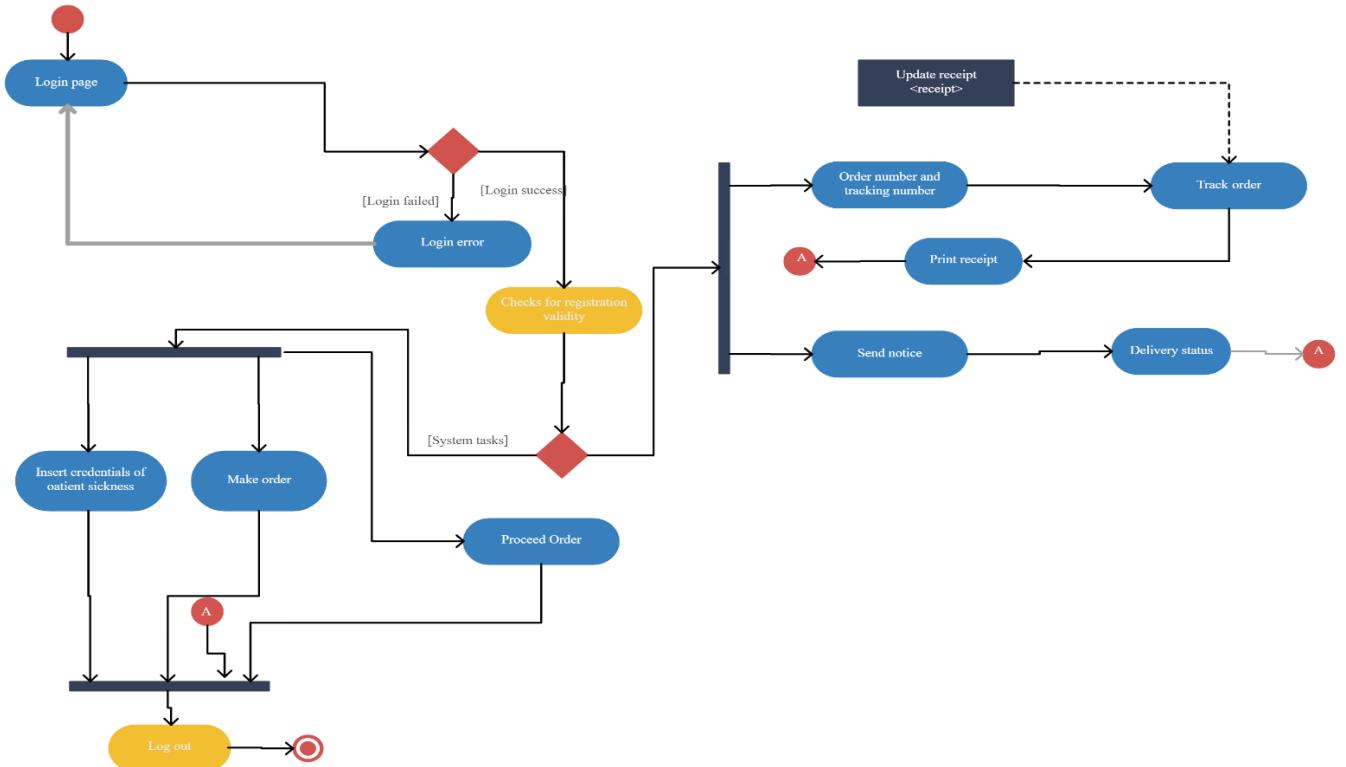


Figure – 4: User Profile Activity

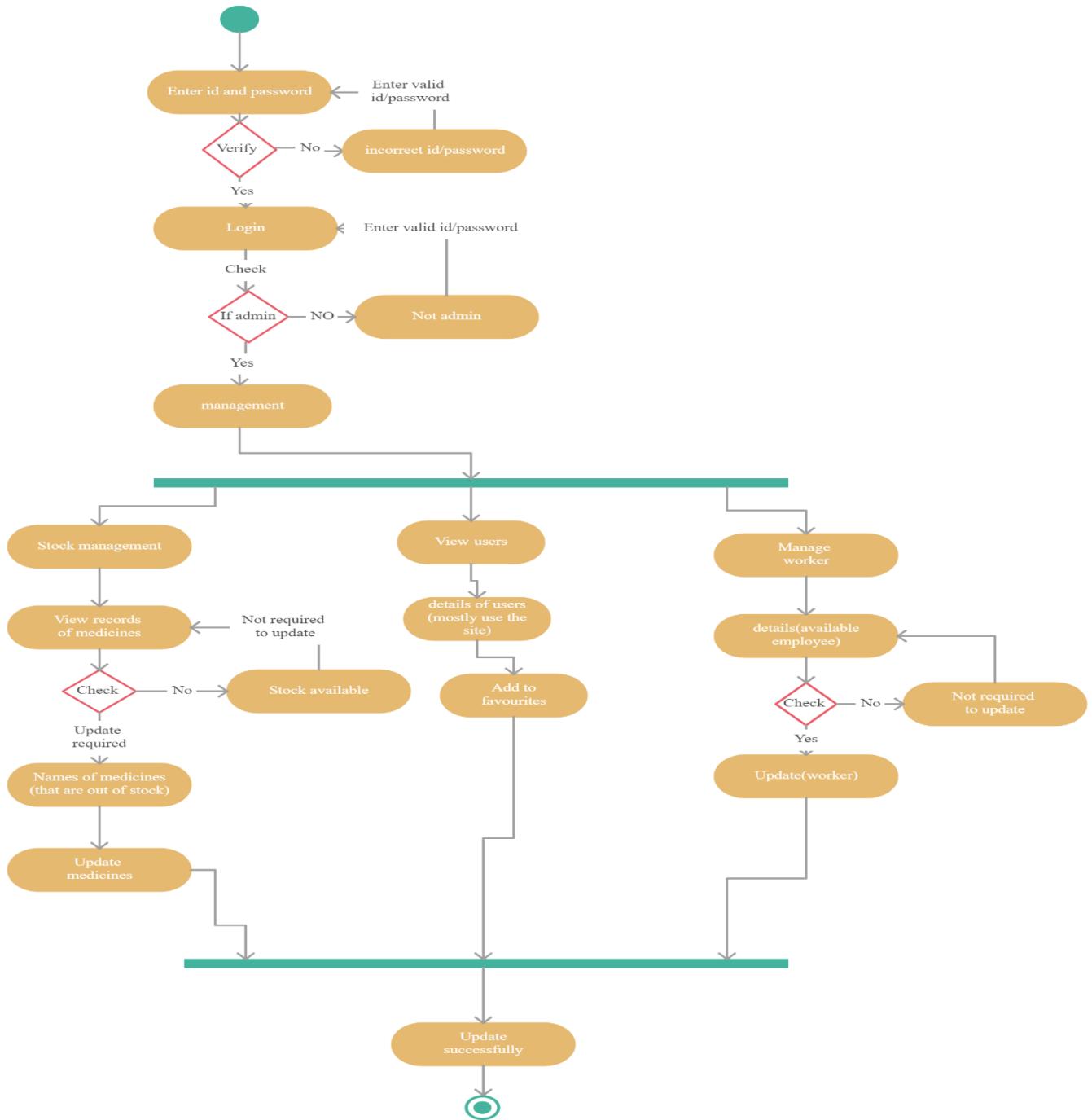


Figure – 5: Admin Profile Activity

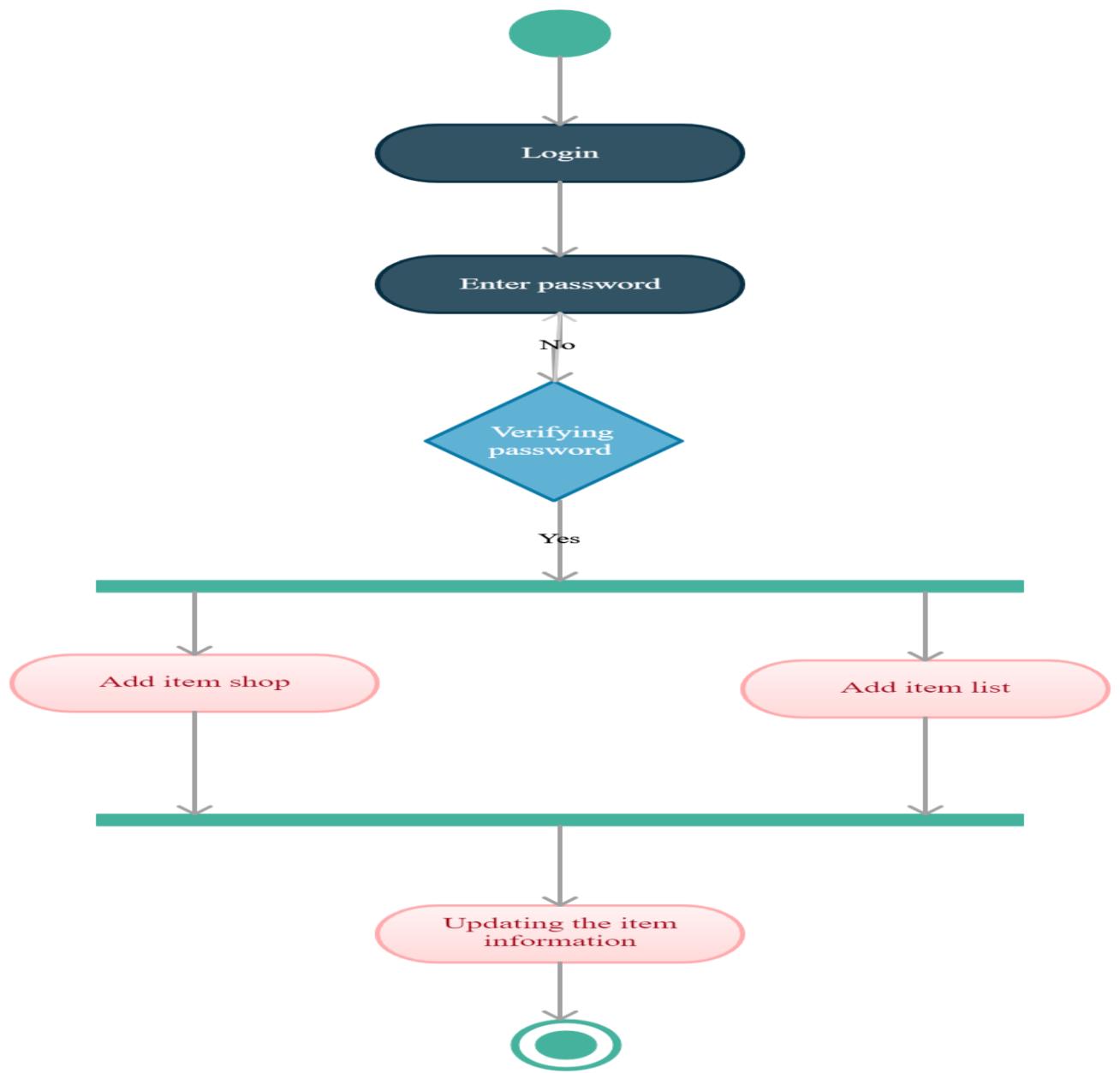


Figure – 6: Employee Profile Activity

4.2.3 Entity Relation Diagram

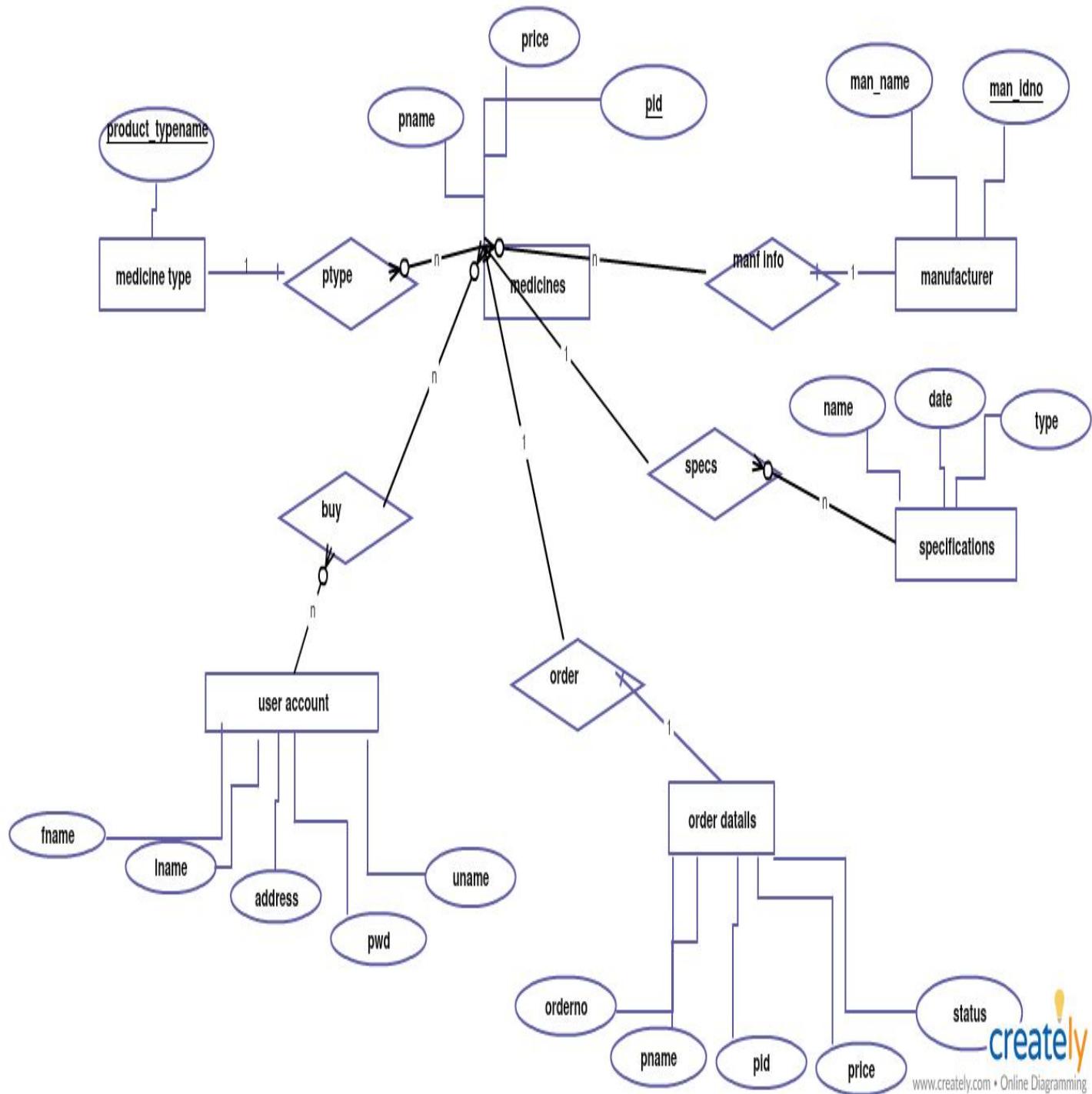


Figure – 7: ER diagram

4.3 Data Dictionary

Table-4: Data dictionary

Database Table Name: Employee						
Column Name	Data Type	Nullable	Default Value	Auto Increment	Key	Connected With
pharmacy_id	Integer	no	No	Yes	Primary	
pharmacy_address	Varchar (254)	no	no	no		
owner_name	Varchar (100)	no	no	no		
pharmacy_name	Varchar (100)	no	no	no		
pharmacy_reg_id	Varchar (100)	no	no	no		
employee_password	Varchar (100)	no	no	no		
pharmacy_rating	Double (3,0)	yes	no	no		
pharmacy_rating_count	Integer	no	yes	no		
employee_email	Varchar (254)	no	no	no	unique	
employee_phone	Varchar (15)	no	no	no		
employee_longT	Varchar (20)	no	yes	no		
employee_latiT	Varchar (20)	no	yes	no		

Database Table Name: Inventory						
Column Name	Data Type	Nullable	Default Value	Auto Increment	Key	Connected With
med_name	Varchar (200)	no	no	no		
med_id	Integer	no	no	yes	Primary	
med_price	Double (10,2)	no	no	no		
med_quantity	Integer	yes	no	no		
med_status	Varchar (3)	no	yes	no		
med_catagory	Varchar (2)	no	yes	no		

med_generic	Varchar (2)	no	no	no		
pharmacy_id	Integer	no	no	no	Foreign	Table Employee Column Col1

Database Table Name: Customer						
Column Name	Data Type	Nullable	Default Value	Auto Increment	Key	Connected With
customer_name	Varchar (100)	no	no	no		
customer_id	Integer	no	no	yes	Primary	
birthdate	Date	no	no	no		
customer_address	Varchar (254)	no	no	no		
customer_password	Varchar (100)	no	no	no		
customer_email	Varchar (254)	no	no	no	Unique	
customer_phone	Varchar (15)	no	no	no		
customer_longT	Varchar (20)	no	yes	no		
customer_latiT	Varchar (20)	no	yes	no		

Database Table Name: Delivery						
Column Name	Data Type	Nullable	Default Value	Auto Increment	Key	Connected With
DS_id	Integer	no	no	yes	Primary	
DS_start_time	Time	no	no	no		
DS_stop_time	Time	no	no	no		
DS_capacity	Integer	yes	yes	no		
DS_status	Bit	no	yes	no		

Database Table Name: Admin						
Column Name	Data Type	Nullable	Default Value	Auto Increment	Key	Connected With
admin_name	Varchar (100)	no	no			
admin_password	Varchar (100)	no	no	no		
admin_id	Integer	no	no	yes	Primary	
admin_designation	Varchar (50)	no	no	no		

admin_phone	Varchar (15)	no	no	no		
admin_email	Varchar (254)	no	no	no	Unique	

Database Table Name: Order						
Column Name	Data Type	Nullable	Default Value	Auto Increment	Key	Connected With
order_id	Integer	no	no	yes	Primary	
order_date	Datetime	no	yes	yes		
pharmacy_id	Integer	no	no	no	Foreign	Table Employee Column Col1
customer_id	Integer	no	no	no	Foreign	Table customer Column Col2
delivery_id	Integer	no	no	no	Foreign	Table delivery Column Col1
delivery_status	Varchar (3)	no	yes	no		
rating	Integer	yes	no	no		
order_quantity		no	yes	no		
med_id	Integer	no	no	no	Foreign	Table Inventory Column Col2
order_status	Bit	no	yes	no		
order_type	Varchar (3)	no	yes	no		
delivery_note	Varchar (100)	no	yes	no		
order_cost	Varchar (10)	no	yes	no		
order_longT	Varchar (20)	no	yes	no		
order_latiT	Varchar (20)	no	yes	no		

Database Table Name: Cart						
Column Name	Data Type	Nullable	Default Value	Auto Increment	Key	Connected With
cart_id	Integer	no	no	yes	Primary	

pharmacy_id	Integer	no	no	no	Foreign	Table Employee Column Col1
customer_id	Integer	no	no	no	Foreign	Table customer Column Col2
adding_quantity	Integer	no	yes	no		
med_id	Integer	no	no	no	Foreign	Table Inventory Column Col2

Database Table Name: Prescription						
Column Name	Data Type	Nullable	Default Value	Auto Increment	Key	Connected With
pres_id	Integer	no	no	yes	Primary	
pres_status	Bit	no	yes	no		
customer_id	Integer	no	no	no	Foreign	Table customer Column Col2
order_id	Integer	no	no	no	Foreign	Table order Column Col1

Database Table Name: Coupon						
Column Name	Data Type	Nullable	Default Value	Auto Increment	Key	Connected With
coupon_id	Integer	no	no	yes	Primary	
coupon_code	Varchar (10)	no	no	no		
coupon_amount	Integer	no	no	no		
med_id	Integer	no	no	no	Foreign	Table Inventory Column Col2

4.4 User Interface design

The screenshot shows a list of medications with their names, active ingredients, prices, quantity dropdowns, and 'Add to Cart' buttons.

Medicine Name	Active Ingredients	Price	Quantity	Add to Cart
Napa Tablet	Paracetamol	0.8	5	Add to Cart
Cef 3 (200 mg)	Cefixime	35.11	5	Add to Cart
Fimoxyl 250mg	Amoxicillin Trihydrate	3.62	5	Add to Cart
paricap	Paricalcitol	25.0	5	Add to Cart
Zilvit Capsule	Carbonyl Iron + Folic Acid + Vitamin B Complex + Vitamin C + Zinc	3.5	5	Add to Cart
Zymet Tablet 325mg	Pancreatin	3.5	5	Add to Cart
Vivis Eye Capsule	Vitamin C, Vitamin E, Lutein, Copper & Zinc	10.0	5	Add to Cart
Neofloxin Eye/Ear Drop	Ciprofloxacin	40.0	5	Add to Cart
Durol Tablet 6.25mg	Carvedilol	3.01	5	Add to Cart
Zolfin Tablet 100mg	Aceclofenac	4.0	5	Add to Cart
Lexaton Tablet 50mg	Tolperisone Hydrochloride	3.05	5	Add to Cart
Ipramid Inhaler	Ipratropium Bromide	220.0	5	Add to Cart
Benzac Cream	Benzoyl Peroxide	150.44	5	Add to Cart

Fig 8: Home Page

The screenshot shows a login/sign up form with fields for Email and Password, and buttons for Sign in and Sign up.

[Sign in](#)

Not registered yet?

[Sign up](#)

Fig 9: Login/ Sign Up Page

MEDBOT Account Categories ▾ Upload Prescription Cart About

Medicine name Search

Full Name

Email Password

Address 1234 Main St

Phone

Birth year Month Day

Place the marker on your Location 

Fig 10: Sign Up Page

MEDBOT Account Categories ▾ Upload Prescription Cart About

Medicine name Search

Napa Tablet	General	Paracetamol	0.8	<input type="button" value="5"/>	<input type="button" value="Add to Cart"/>
Cef 3 (200 mg)	Metabolic and Nutritional	Cefiximine	35.11	<input type="button" value="5"/>	<input type="button" value="Add to Cart"/>
Fimoxyl 250mg	Blood	Amoxicillin Trihydrate	3.62	<input type="button" value="5"/>	<input type="button" value="Add to Cart"/>
paricap	Digestive	Paricalcitol	25.0	<input type="button" value="5"/>	<input type="button" value="Add to Cart"/>
Zilvit Capsule	Eye	+ Folic Acid + Vitamin B Complex + Vitamin C + Zinc	3.5	<input type="button" value="5"/>	<input type="button" value="Add to Cart"/>
Zymet Tablet 325m	Ear	Pancreatin	3.5	<input type="button" value="5"/>	<input type="button" value="Add to Cart"/>
Vivis Eye Capsule	Circulatory	Vitamin C, Vitamin E, Lutein, Copper & Zinc	10.0	<input type="button" value="5"/>	<input type="button" value="Add to Cart"/>
Neofloxin Eye/Ear Drop	Musculoskeletal	Ciprofloxacin	40.0	<input type="button" value="5"/>	<input type="button" value="Add to Cart"/>
Duro Tablet 6.25mg	Neurological	Carvedilol	3.01	<input type="button" value="5"/>	<input type="button" value="Add to Cart"/>
Zolfin Tablet 100mg	Psychological	Aceclofenac	4.0	<input type="button" value="5"/>	<input type="button" value="Add to Cart"/>
Lexaton Tablet 50mg	Respiratory	Tolperisone Hydrochloride	3.05	<input type="button" value="5"/>	<input type="button" value="Add to Cart"/>
Ipramid Inhaler	Skin	Ipratropium Bromide	220.0	<input type="button" value="5"/>	<input type="button" value="Add to Cart"/>
Benzac Cream		Benzoyl Peroxide	150.44	<input type="button" value="5"/>	<input type="button" value="Add to Cart"/>

Fig 11: Customer Home Page

MEDBOT Account ▾ Categories ▾ Upload Prescription Cart About

Medicine name Search

Choose file Browse

Checkout

Fig 12: Prescription Upload Page

MEDBOT Account ▾ Categories ▾ Upload Prescription Cart About

Medicine name Search

Name: Zymet Tablet 325mg	Shop: Bismillah Pharmacy	Price: 3.5	Quantity: 5	Remove
Name: Zilvit Capsule	Shop: Bismillah Pharmacy	Price: 3.5	Quantity: 10	Remove
Name: Neofloxin Eye/Ear Drop	Shop: Bismillah Pharmacy	Price: 40.0	Quantity: 5	Remove
Delivery cost: 10	Total cost: 262.5			

Checkout

Fig 13: Customer Cart Page

MEDBOT Account ▾ Categories ▾ Upload Prescription Cart About

Medicine name Search

Name: Zymet Tablet 325mg	Shop: Bismillah Pharmacy	Price: 3.5	Quantity: 5
Name: Zilvit Capsule	Shop: Bismillah Pharmacy	Price: 3.5	Quantity: 10
Name: Neofloxin Eye/Ear Drop	Shop: Bismillah Pharmacy	Price: 40.0	Quantity: 5
Delivery cost: 10	Total cost: 57.0		

10 a.m. - 11 a.m.

Delivery Note Call Me When You arrive

Add a valid promo code

Payment Options

Cash on Delivery

Bkash

Not available now

Rocket

Not available now

Place the marker on your delivery point



Fig 14: Customer Checkout Page upper part

Add a valid promo code

Payment Options

Cash on Delivery

Bkash
Not available now

Rocket
Not available now

Place the marker on your delivery point

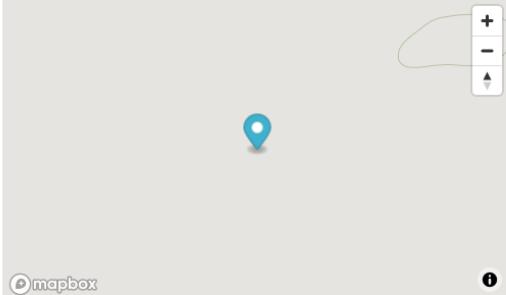


Fig 15: Customer Checkout page down Part

MEDBOT [Account](#) [Categories](#) [Upload Prescription](#) [Cart](#) [About](#)

Full Name	<input type="text" value="green"/>	
Email	<input type="text" value="green@gmail.com"/>	Current Password
New Password	<input type="password"/>	
Address	<input type="text" value="1234 Main street, Gulshan,Dhaka"/>	
Phone	<input type="text" value="01234567890"/>	
<input style="background-color: #007bff; color: white; border: none; padding: 5px;" type="button" value="Save Changes"/>		

Fig 16: Customer Profile settings page

The screenshot shows a dark-themed web application interface for a pharmacy. At the top, there is a navigation bar with links for "MEDBOT", "Account", and "About". To the right of the navigation bar is a search bar containing the placeholder "Medicine name" and a green "Search" button. Below the search bar is a table listing various medicine items with their details and prices.

Napa Tablet	Paracetamol	0.8
Cef 3 (200 mg)	Cefixime	35.11
Fimoxyl 250mg	Amoxicillin Trihydrate	3.62
paricap	Paricalcitol	25.0
Zilvit Capsule	Carbonyl Iron + Folic Acid + Vitamin B Complex + Vitamin C + Zinc	3.5
Zymet Tablet 325mg	Pancreatin	3.5
Vivis Eye Capsule	Vitamin C, Vitamin E, Lutein, Copper & Zinc	10.0
Neofloxin Eye/Ear Drop	Ciprofloxacin	40.0
Durol Tablet 6.25mg	Carvedilol	3.01
Zolfin Tablet 100mg	Aceclofenac	4.0
Lexaton Tablet 50mg	Tolperisone Hydrochloride	3.05
Ipramid Inhaler	Ipratropium Bromide	220.0
Benzac Cream	Benzoyl Peroxide	150.44

[Order Histories](#)

Fig 17: Pharmacy Home page

The screenshot shows a dark-themed web application interface for a pharmacy. At the top, there is a navigation bar with links for "MEDBOT", "Account", and "About". To the right of the navigation bar is a search bar containing the placeholder "Medicine name" and a green "Search" button. Below the search bar is a table listing a history of delivered orders.

12	Sept. 16, 2020, 9:13 p.m.	False	OP	xciton	120.0	Call Me When You arrive	1	Order Delivered
13	Sept. 28, 2020, 11:14 a.m.	False	OP	xyz	140.0	Call Me When You arrive	1	Order Delivered
14	Sept. 28, 2020, 11:15 a.m.	False	OP	muhammadniazmorshed	270.0	Call Me When You arrive	1	Order Delivered
15	Oct. 5, 2020, 6:51 a.m.	False	OP	green	57.0	Call Me When You arrive	1	Order Delivered

[Get Optimized route for delivery](#)

Fig 18: Pharmacy Order List

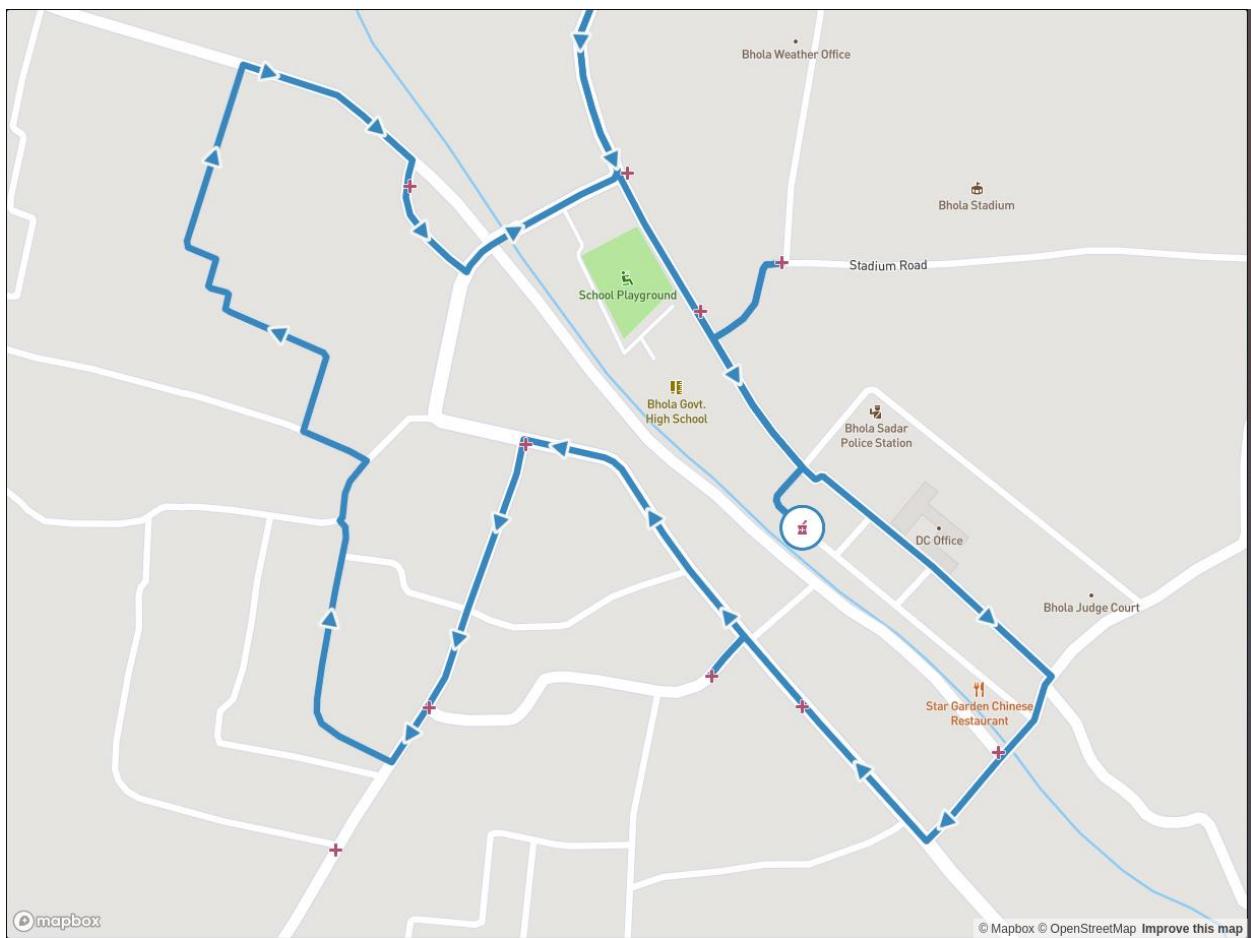


Fig 19: Optimized Delivery Route

CHAPTER 5

FEATURE IMPLEMENTATIONS

5.1 Sign Up

Required for: Pharmacy owner, customers

Description: A user needs to sign up on the website to get all the facilities. So, the user must give the user name, email and password to create an account.

Priority: High

Functional Requirements: System shall create a new account.

5.2 Login

Required for: Pharmacy owner, customers

Description: Given that a user is registered he/she can login or get access to the server using email and password or directly using Facebook.

Priority: High

Functional Requirements: System shall allow the user to use the account.

5.3 Change Password

Required for: Pharmacy owner, customers

Description: If a user wants to change his/her password then the user will be able to request for a new password.

Priority: High

Functional Requirements: System shall send a view to access the user to change their password in their account.

5.4 Set Information

Required for: Pharmacy owner, customers

Description: Users have to set their important information about themselves including phone numbers, emails.

Priority: High

Functional Requirements: System shall store all the important user data in order to give information to the profile.

5.5 Search Method Selection

Required for: Unregistered user, Pharmacy owner, customers

Description: Users can set the method of search. They just have to set how they want the search to be executed.

Priority: High

Functional Requirements: System will search according to the user's choice and return the results.

5.6 Modify Search

Required for: Unregistered user, Pharmacy owner, customers

Description: Users will be able to modify their search whenever they want like if they want to filter their search by medicine name and category, they can do it too. Priority: Medium

Functional Requirements: System shall update the information if users want to modify the search.

5.7 Show Reviews

Required for: Unregistered user

Description: Users will be able to see the reviews of other's post.

Priority: Medium

Functional Requirements: System shall show reviews of users.

5.8 Show and post Reviews

Required for: customers

Description: Users will be able to see the reviews of other's posts and also can post reviews.

Priority: Medium

Functional Requirements: System shall show reviews of users.

5.9 Live Support

Required for: customers, unregistered user

Description: Users can have live support whenever they want as it will be available 24 hours.

Priority: High

Functional Requirements: System shall provide live support so that users will find help if they are facing any problems or they have any harassment issues.

5.10 Select Search Location

Required for: Unregistered user, customers

Description: Users can search from their current location or can select a certain location to see the nearest pharmacy and reviews around the location. Priority: High

Functional Requirements: System shall display all the reviews and medicine of selected locations whenever the user searches from a certain location.

5.11 Add Medicine

Required for: pharmacy owner

Description: Pharmacy owners can add any medicine which should be divided into different sub categories.

Priority: High

Functional Requirements: System shall assign the medicines added by the users to the database. And after assigning it will be visible to others.

5.12 Add Promo Code

Required for: customer

Description: Users can add promo code in order to get some discounts.

Priority: High

Functional Requirements: System shall assign the promo codes added by the users to the database.

5.13 Modifying Account Information

Required for: Pharmacy owner, customers

Description: Users or Pharmacy owners can make changes to their information or address or contact number.

Priority: Medium

Functional Requirements: System shall update the information when the user makes an information change request.

5.14 View Pharmacy Information

Required for: Unregistered user, Pharmacy owner, customers

Description: Users shall be able to see pharmacy information provided by the pharmacy owner.

Priority: High

Functional Requirements: System shall display all the information provided by pharmacy owners.

5.15 Remove Account

Required for: admin

Description: Users or pharmacy owners can cancel their account anytime.

Priority: Medium

Functional Requirements: System shall remove the account from the system database but a phone verification will be required.

5.16 Submit Report

Required for: customers, pharmacy owner

Description: Users or pharmacy owners can submit a report about any issues if they face any problem.

Priority: Medium

Functional Requirements: System shall put reports to admins and they will verify and take preliminary actions.

5.17 Uploading Pictures of Medicine

Required for: Pharmacy owner, customers

Description: Users can see the photos from the pharmacy profile gallery.

Priority: high

Functional Requirements: System shall show the picture of pharmacies.

5.18 Add Offers

Required for: Pharmacy owner

Description: pharmacy owners can be able to add their offers.

Priority: high

Functional Requirements: System shall share offers added by the pharmacy owner.

5.19 Entering medicine item with name price and description

Required for: Pharmacy owner

Description: pharmacy owner can insert medicine item name price and details.

Priority: high

Functional Requirements: System shall allow the user to add medicine item name, price and details.

5.20 Add User

Required for: admin

Description: admin can tap the add button and add new users to the website. Priority: Medium

Functional Requirements: System shall allow admin to add a new user.

5.21 Block User

Required for: admin

Description: admin can tap the block button and block users to the website if necessary. Priority: Medium

Functional Requirements: System shall allow admin to block a user.

5.22 Sort by Pharmacy Delivery Rating

Required for: customers, guest user

Description: Users will be able to find the pharmacies by sorting their delivery rating.

Priority: Medium

Functional Requirements: System shall sort the pharmacies by delivery rating and return the results to users.

5.23 Add Medicines to the Cart

Required for: customers, unregistered user

Description: Users will be able add medicines to the cart so that they can know the total amount of cost.

Priority: Medium

Functional Requirements: System shall allow the users to add medicine to the cart for cost estimation.

5.24 Save Cart

Required for: customers

Description: Users will be able save the cart so that they can order later.

Priority: Medium

Functional Requirements: System shall allow the users to add medicine to the cart for cost estimation.

5.25 Payment Option

Required for: customers

Description: Users would be able to select the payment gateway.

Priority: Medium

Functional Requirements: System shall provide payment options for the customers for payment.

5.26 Checking History and Credentials

Required for: customers

Description: Users would be able to check their order history and also can check the credits in their account.

Priority: Medium

Functional Requirements: System shall store the order information and account credit information to the database.

5.27 Sort by Best deal

Required for: customers, guest user

Description: Users will be able to find the medicine by sorting best deals.

Priority: Medium

Functional Requirements: System shall sort the medicines by best deals and return the results to users.

5.28 Update Medicine name, price and description

Required for: Pharmacy owner

Description: pharmacy owner can update medicine item name, price and details.

Priority: Medium

Functional Requirements: System shall allow users to update item name, price and other details of the medicine.

5.29 Multiple Language

Required for: customer, pharmacy owner, unregistered user, admin

Description: Users would be able to select their preferred language

Priority: Medium

Functional Requirements: System shall provide multiple language options to the users.

5.30 Order History

Required for: pharmacy owner

Description: Users would be able to see the order history from the customers and confirm the delivery.

Priority: Medium

Functional Requirements: System shall store order histories from the customer to the database.

5.31 User and pharmacy owner can sign out

Required for: Pharmacy owner, customers

Description: Users and pharmacy owners will be able to sign out from the system.

Priority: Medium

Functional Requirements: System shall let the user to sign out.

CHAPTER 6

SOFTWARE TESTING PLAN

Project name is Online Medicine Delivery System and works on Web application. We are using three types of testing. They are:

- System testing
- Regression testing
- User Acceptance testing.

6.1 System Testing

We tested the program by system testing to find the defects and noted severity of defects, summary of defects and commented on them. System testing is the testing of a complete and fully integrated software product. System tests the overall system operations as a whole, typically from a customer's perspective. System testing presumes that all components have been previously, successfully, integrated. System testing is done after integration testing is complete. System testing main focus is to verify that the customer requirements are fulfilled. System testing should test functional and non-functional requirements of the software. System testing is black-box testing and often done by independent testers.

Table-5: System Testing

Test Case ID	Test Case	Tester	Severity of Defect	Summary of Defect	Comments
1	Navigation Bar work	Hasan	none	none	none
2	Display current location	Hasan	none	none	none
3	Show suggestions	Hasan	none	none	none
4	Display categories	Hasan	none	none	none
5	Display Popularity	Hasan	none	none	None
6	Display review button work	Hasan	none	none	none
7	Show all reviews	Hasan	none	none	none
8	Show my reviews	Hasan	none	none	none
9	Without login cannot give rating	Hasan	none	none	none
10	Without login cannot give writing about	Hasan	none	none	none
11	Display Pharmacy list	Hasan	none	none	none
12	Display login required button	Hasan	none	none	none
13	Press login button work	Hasan	none	none	none
14	Press sign up button	Hasan	none	none	none
15	Properly show	Hasan	none	none	none

	Email: text field				
16	Properly show Username: text field	Hasan	none	none	none
17	Properly show Password: text field	Hasan	none	none	none
18	Properly show Phone number: text field	Hasan	none	none	none
19	Give phone number	Hasan	High	Don't show error message	Country phone code is not working
20	Email verification	Hasan	none	none	none
21	Sign up button is not working without fill up the requirements	Hasan	none	none	none
22	Sign up button work	Hasan	none	none	none
23	Properly show Email: text field	Sunny	none	none	none
24	Properly show password: text field	Sunny	none	none	none
25	Email and password text field is blank then show error message	Sunny	none	none	none
26	Email text field is blank then show error message	Sunny	none	none	none
27	Password text field is blank then show error message	Sunny	none	none	none
28	If Email text field is not fill up and give password then show error message	Sunny	none	none	none
29	Give invalid email and password then pressed on sign in button show error message	Sunny	none	none	none
30	Give valid email and password then pressed on sign in button	Sunny	none	none	None
31	With login give medicine rating	Sunny	none	none	None
32	With login show available medicines	Sunny	High	none	Not working
33	Rate this Pharmacy	Sunny	none	none	none
34	Give review	Sunny	none	none	none
35	With login give my review	Sunny	none	none	none
36	Editing username	Sunny	none	none	none
37	Editing phone number	Sunny	none	none	none
38	Editing password	Sunny	none	none	none
39	Edit after press edit button	Sunny	none	none	none
40	Display Sign out button	Sunny	none	none	none
41	Click on sign out button work properly	Sunny	none	none	none

42	Display Pharmacy name text field properly	Sunny	none	none	none
43	Display email text field properly	Sunny	none	none	none
44	Display address text field properly	Sunny	none	none	none
45	Display password text field properly	Sunny	none	none	none
46	Display Address text area properly	Sunny	none	none	none
47	Display Maps Areas Properly	Niaz	High	none	none
48	Display Categories Properly	Niaz	none	none	none
49	Categories works Properly	Niaz	Medium	none	none
50	Cart saves properly	Niaz	High	none	None
51	Checkout button works properly	Niaz	High	none	None
52	Confirm Order doesn't active without location point entry	Niaz	High	none	None
53	Order button works properly	Niaz	High	none	None
54	Cost calculated properly	Niaz	High	none	None
55	Search button works properly	Niaz	High	none	None
56	Logout button works properly	Niaz	High	none	None
57	Order History works properly	Niaz	Medium	none	None
58	Optimized route page works properly	Niaz	High	none	None
59	Display customer location point properly	Niaz	High	none	None
60	Display Pharmacy Location properly	Niaz	High	None	None
61	Display Deliveryman's location properly	Niaz	High	None	None
62	Display the route properly	Niaz	High	None	none

6.2 Regression Testing

Regression tests determine that the system remains stable as it cycles through the integration of other subsystems and through maintenance tasks. Testing that is performed after making a functional improvement or repair to the program. Its purpose is to determine if the change has regressed other aspects of the program. In this category, new tests are not designed; instead, test cases are selected from the existing pool and executed. Finally, we tested our project by an own user and write report and also found the defects.

The table below summarizes the test cases employed for regression testing and the test results obtained for each test case:

Table-6: Regression Testing

Test Case ID	Date Tested	Tester	Pass /Fail	Severity of Defect	Summary of Defect	Closed prior to Product ion Release ?	Comments

16	5/10/20	Sunny	Pass	High	Without filling up any requirement but add medicine item.	Yes	Problem Solved.
19	5/10/20	Sunny	Pass	Medium	Guest browser rated the medicine which is not in the requirement	Yes	Problem Solved
25	5/10/20	Sunny	Pass	High	Validation problem in customers and pharmacy owner/ manager give phone number	Yes	Problem solved
31	5/10/20	Sunny	Pass	Medium	Now can delete the pictures	Yes	Problem solved
33	5/10/20	Sunny	Pass	Medium	Now give old password again then show error message and give new password then it will update	Yes	Problem solved
38	5/10/20	Sunny	Pass	Medium	Give delivery rating it will show big fractional number but now it not shows those types of number	Yes	Problem solved
40	5/10/20	Sunny	Pass	Medium	Here is review but again give review then it will be added no show error message but now show error message	Yes	Problem solved
44	5/10/20	Sunny	Pass	Medium	Here is rating but again give review then it will be added no show error message	Yes	Problem solved

6.3 Acceptance Testing

Acceptance testing is Formal testing for product evaluation. Formal testing conducted to determine whether a system satisfies its acceptance criteria. Performed by customers/end users (preferably). Verifies functionality and usability of the software. Conducted prior to software being released to live operation. At this level of testing, the software should be in a sufficiently defect-free state to permit the emphasis to change. Acceptance testing is usually the last step before the user/customer takes the possession of the software.

The table below summarizes the test cases employed for user acceptance testing and the test results obtained for each test case:

Table-7: Acceptance Testing

Test Case ID	Date Tested	Tester	Pass/Fail	Severity of Defect	Summary of Defect	Closed prior to Production Release?	Comments
1	5/10/20	Sunny	Pass	none	none	Yes	none
2	5/10/20	Sunny	Pass	none	none	Yes	none
3	5/10/20	Sunny	Pass	none	none	Yes	none
4	5/10/20	Sunny	Pass	none	none	Yes	none
5	5/10/20	Sunny	Fail	high	Stays in the find nearby location page	Yes	Must be fixed 5
6	5/10/20	Sunny	Pass	none	none	Yes	none
7	5/10/20	Sunny	Pass	none	none	Yes	none
8	5/10/20	Sunny	Pass	none	none	Yes	none
9	5/10/20	Sunny	Pass	none	none	Yes	none
10	5/10/20	Sunny	Pass	none	none	Yes	none
11	5/10/20	Sunny	Pass	none	none	Yes	none
12	5/10/20	Sunny	Pass	none	none	Yes	none
13	5/10/20	Sunny	Pass	none	none	Yes	none
14	5/10/20	Sunny	Pass	none	none	Yes	none
15	5/10/20	Sunny	Pass	none	none	Yes	none
16	5/10/20	Sunny	Fail	medium	Stays in the Pharmacy page	Yes	Must be fixed 16
17	5/10/20	Sunny	Pass	none	none	Yes	none
18	5/10/20	Sunny	Pass	none	none	Yes	none
19	5/10/20	Sunny	Fail	medium	Stays in the Pharmacy page	Yes	Must be fixed 19
20	5/10/20	Sunny	Pass	none	none	Yes	none
21	5/10/20	Sunny	Pass	none	none	Yes	none
22	5/10/20	Sunny	Pass	none	none	Yes	none
23	5/10/20	Sunny	Pass	none	none	Yes	none
24	5/10/20	Sunny	Pass	none	none	yes	none
25	5/10/20	Sunny	Pass	none	none	Yes	none
26	5/10/20	Sunny	Pass	none	none	Yes	none
27	5/10/20	Sunny	Pass	none	none	Yes	none
28	5/10/20	Sunny	Fail	medium	Redirect on 27 no. test case	Yes	Must be fixed 28
29	5/10/20	Sunny	Pass	none	none	Yes	none
30	5/10/20	Sunny	Pass	none	none	Yes	none
31	5/10/20	Sunny	Pass	none	none	Yes	none
32	5/10/20	Sunny	Pass	none	none	Yes	none
33	5/10/20	Sunny	Pass	none	none	Yes	none
34	5/10/20	Sunny	Pass	none	none	Yes	none
35	5/10/20	Sunny	Pass	none	none	Yes	none
36	5/10/20	Sunny	Pass	none	none	Yes	none
37	5/10/20	Sunny	Pass	none	none	Yes	none
38	5/10/20	Sunny	Pass	none	none	Yes	none

39	5/10/20	Sunny	Pass	none	none	Yes	none
40	5/10/20	Sunny	Pass	none	none	Yes	none
41	5/10/20	Sunny	Pass	none	none	Yes	none
42	5/10/20	Sunny	Pass	none	none	Yes	none
43	5/10/20	Sunny	Pass	none	none	Yes	none
44	5/10/20	Sunny	Pass	none	none	Yes	none
45	5/10/20	Sunny	Fail	high	Don't show any error message	Yes	Must be fixed 45
46	5/10/20	Sunny	Pass	none	none	Yes	None
47	5/10/20	Niaz	Pass	High	none	Yes	none
48	5/10/20	Niaz	Pass	none	none	Yes	none
49	5/10/20	Niaz	Pass	Medium	none	Yes	none
50	5/10/20	Niaz	Pass	High	none	Yes	none
51	5/10/20	Niaz	Pass	High	none	Yes	none
52	5/10/20	Niaz	Pass	High	none	Yes	none
53	5/10/20	Niaz	Pass	High	none	Yes	none
54	5/10/20	Niaz	Pass	High	none	Yes	none
55	5/10/20	Niaz	Pass	High	none	Yes	none
56	5/10/20	Niaz	Pass	High	none	Yes	none
57	5/10/20	Niaz	Pass	Medium	none	Yes	none
58	5/10/20	Niaz	Pass	High	none	Yes	none
59	5/10/20	Niaz	Pass	High	none	Yes	none
60	5/10/20	Niaz	Pass	High	None	Yes	None
61	5/10/20	Niaz	Pass	High	None	Yes	None
62	5/10/20	Niaz	Pass	High	None	Yes	None

CHAPTER 7

CONCLUSION

7.1 Future Work

This Project is still at its basic stage with the additional multi-tenant advantage. There are more things that are already proposed while designing the database but still not released in first version. In future, we are expecting to work on order system, prescription uploading and automating the process with new machine learning features along with solving some obvious bugs.

7.2 Contribution to the society

Medicine is one of the most necessary and emergency needs, and in this modern large society we need new system which is mobile and fast with secure process and delivery. MedBot is an application that can help people find the medicine they need in no time and order them in a fast way. To get the delivery even faster, the application provides optimized route for the delivery man for multiple order deliveries in certain area. The auto saved cart is very helpful to order even faster. Thus, people can get their medicine from home in a fast and secure way.

CHAPTER 8

REFERENCES

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