A SMART WAY OF MEDICINE MANAGEMENT APPROACH

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering.

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APPROVAL

This Project titled "**A SMART WAY OF MEDICINE MANAGEMENT APPROACH**", submitted by Md. Shafiur Rahman Aronno, ID No: 171-15-8828 and Md. Shadman Sakib, ID No: 171-15-8809 to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 03-05-2021.

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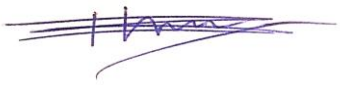

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We hereby declare that, this project has been done by us under the supervision of **Ms. Israt Jahan, Lecturer,** department of CSE**,** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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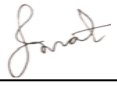

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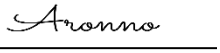

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And also my heartfelt love goes out to my parents for their tireless support.

Abstract

The main objective and goal of our project is to provide home delivery of the desired and correct medicine to the users who are unable to buy the required medicine due to epidemic or lack of time. We have seen that many times patients do not get the required medicine on time, but our goal will be to deliver the medicine on time. We've done a lot of work for this project using atom, where we've loaded libraries and APIs. The UI of our web application is very easy for the users, and we have created it in a very interesting way. Since our project is web based, it will need an internet connection to run. When you open the application, it will take you to the home page, shop, service, blog page. Data received from users is stored in a database at the end of the process, which we can operate with SQL, phpMyAdmin. Our project will be able to save all the information of the Users(who ordered something) such as name, address, email, phone number. Anyone can access our web application and order medicine and get an ambulance number in case of an emergency. Our web application will always try to meet all your needs properly.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

The world was moving at a certain speed, the whole world is stunned today due to the Covid19 virus. Even in this age of technology, we are still trapped at home. Due to the global epidemic, people are unable to go out to buy their daily necessities. In this situation, everyone is interested in online shopping. Almost every human being needs some kind of medicine, so medicine is an essential part of human life. Considering the current world situation, it is very risky to go to the drug store and collect the medicine at this time, so we have taken the initiative to provide the medicine in accordance with the hygiene rules through online home delivery. We are currently taking steps to provide services across a specific area. By using this web application, any local or foreign medicine can be ordered at home. Many people are deceived by getting fake and expired drugs online, we can provide government registered drugs with 100% trust. Not only will we provide home delivery services, this web application will also provide a list of city ambulance service numbers. Also a new pharmacist will get a clear idea about the location of the drug in the store in the backend of the web application. Using this project, users can easily order the desired medicine, and get the number of the ambulance in case of emergency.

1.2 Literature Review

Before we start our project, we have studied some literature, projects that have been worked on this topic before, so that we can be inspired by them and find obstacles from them, to solve them.

A: Development of Web Based Online Medicine Delivery System for COVID-19 Pandemic

Here they have created a web application using the technology highlighting the current epidemic where people can order all their necessary medicines sitting at home. They built it as a dynamic web application. In the future, they will improve it, add the necessary features over time and also transform the Android application so that the application can

be run more easily. They will keep the price of medicines in this web application lower than all other stores so that they can benefit the poor and benefit everyone financially. Eventually, online commerce will expand rapidly in Bangladesh. It has been said that using this e-commerce web application system will increase people's life expectancy.

B: Secure Online Medicine Delivery System

This web application provides home delivery of medicines to the customer with great security, saves the customer's time and provides various collaborations. Biometric features have been used to secure the security system through cryptography. The utilization of new advances, for example, distributed computing and delicate registering in information examination of any framework can assist with understanding the conduct of current and future information. The goal here is to keep all the data of the customer secure in the database while ordering thus creating a smart and secure online based medicine delivery system. This will protect the customer's information. It is a safe way to get medicine at low cost and on time.

C: Online pharmacies: desirable characteristics and regulations

This is a Thesis paper, Some students start researching what parameters a proper online pharmacy should follow. The WHO and the FDA have made some rules for online pharmacies, failing which an online pharmacy will be considered illegal. But their research shows that most online pharmacies do not pay attention to these rules and regulations, even some online pharmacies are not registered. Consumers need to be careful about these things. They think that law enforcement agencies should pay attention to this issue.

D:Online pharmacies: A boon or bane?

This thesis has been done by some students in India, they have worked with about 100 online pharmacies, where they have researched whether all these e-pharmacies have all the rules in the stage, and some basic rules like online doctors must be there. These are not obeying. Only a few out of 100 have online doctors. Also online pharmacies have to display all the information about the medicine, this is not being accepted at all. Are these things actually turning online pharmacy into a blessing or a curse?

E: The Viability of Online Pharmacies in COVID-19 Era in Korea

This thesis paper was written by some students of Kerman University of Medical Sciences in South Korea. Their research shows that in the current age of information technology, it is a great way to get medicine to people in less time. As a result, people do not have to go to buy medicine, so the virus will not spread to patients for long. But there are also some disadvantages, many may try to sell counterfeit, illegal drugs. Again, if the home delivery is late, the required medicine may not be available in time, which may lead to the death of the patient. All in all, they think that online pharmacy has more advantages.

1.3 Motivation

We've built our web application in a way that is convenient and straightforward for everyone. Average Bangladeshis buy their medicines from the pharmacy next door, but many medicines are not available in these pharmacies. Then they have to go to a distant pharmacy to buy medicine, as there is a lot of traffic jam in our country, so it is too late to bring medicine. Also, it is very risky to go to the pharmacy and get medicine because of Covid19. So we are trying to deliver the medicine to your doorstep by maintaining safety in less time through this web application. With these things in mind, we make this web application. Our project will solve all these problems in a very smooth way.

1.4 Objectives

The main purpose of our web application is to deliver all kinds of essential medicines at home and to comply with all the international rules and regulations of online pharmacy. Users will be able to order medicines and get other services very easily and securely. Our web application is an impeccable solution to survive this Corona epidemic and get medicines at home.

1.5 Expected Outcomes

- Can order medicine
- Can pay money through cash on delivery or online banking
- Can easily get the number of the emergency ambulance
- Can get home delivery safely

  It is very helpful

#For this epidemic situation.

#For busy people who can’t buy medicine in time

#For those who can't find the necessary medicine nearby

1.6 Proposed Solution

The A smart way of medicine Management approach web application can be accessed by any client without a login and can order products. You only need to login to go to admin panel.

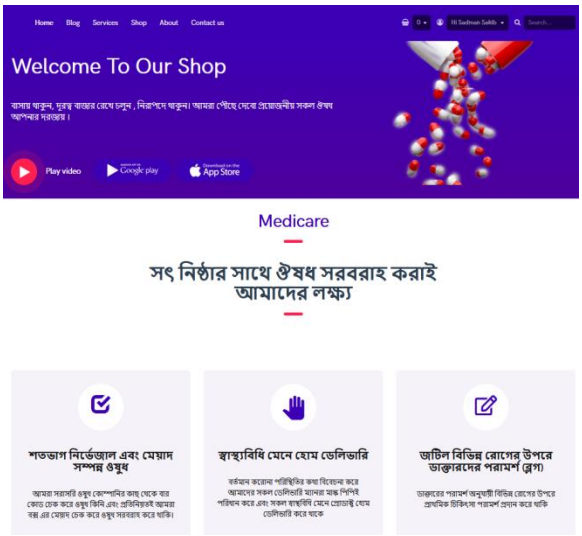

Figure 1.1.1: Landing page

The client will be able to enter Shop Option without any login, and will be able to order medicines. Clients can enter the homepage, shop, service, blog, contact us, about page by entering the web application. When they enter the homepage, They will be able to know about A smart way of medicine Management approach , they will be able to search information about any medicine.

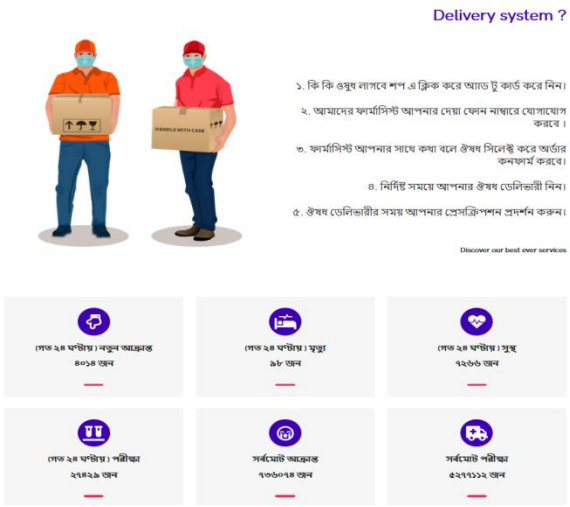

Figure 1.1.2: Landing page

They will be able to know about regular Corona Update like how many people tested in a day, new affected people, how many death occurred, how many recovered, total affected summery, total number of test report. They can get a full idea of the delivery system.

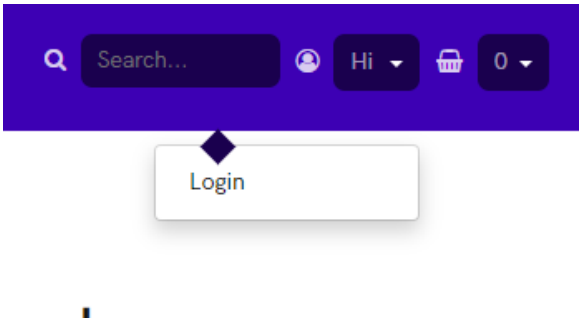

Figure 1.1.3: Log In button

Bottom right of the home page there is a Hi button, after clicking there, a log in interface will be open. When user clicks on it users have to give email and password.

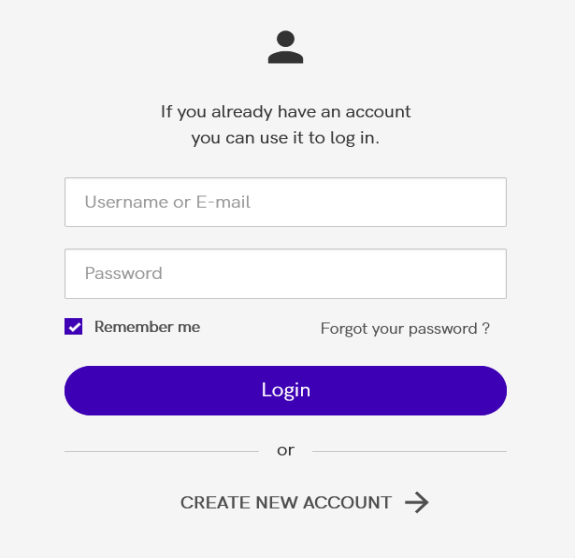

Figure 1.1.4: Log In

If you are already Registered, you can log in, and if not, you need to register with email password and other information. This is a mandatory process.

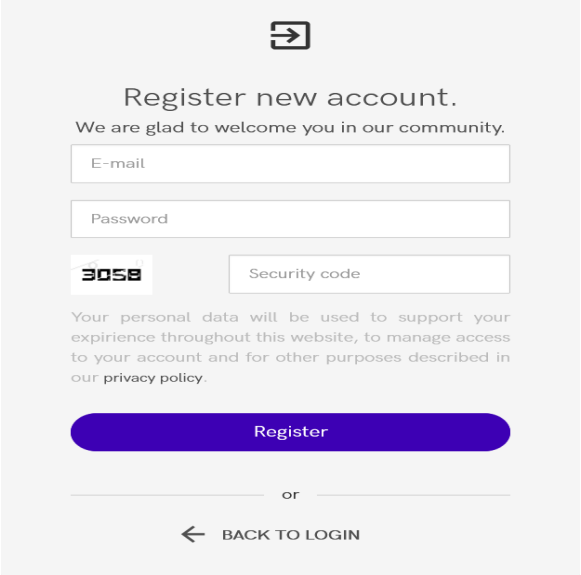

Figure 1.1.5: Register

If the client enters the shop option of the web application, he will see a list of medicines, from where he can select his desired medicine and add it to the cart.

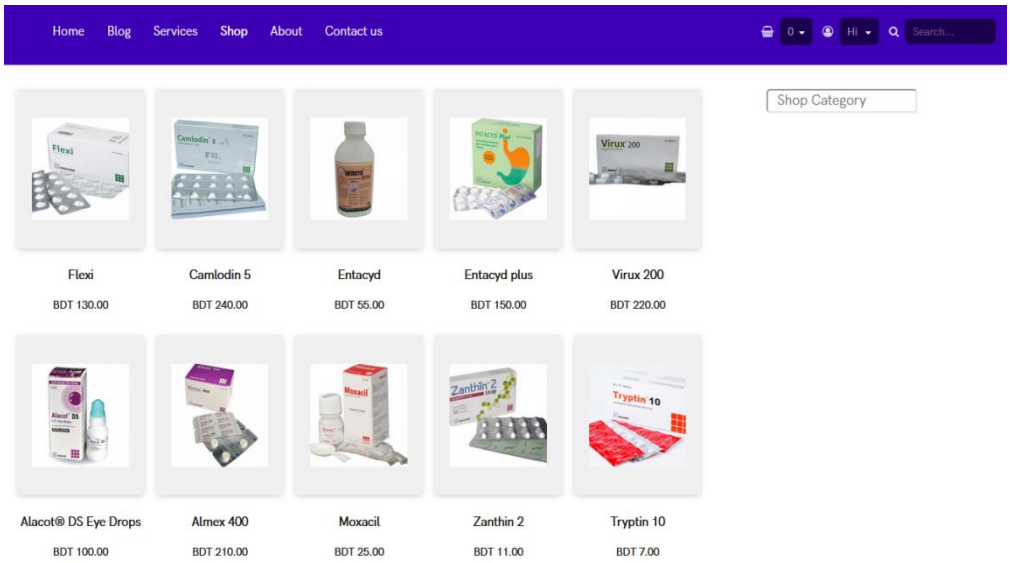

Figure 1.1.6: Medicine display for selecting

After selecting medicine, the next option will add the medicines to shopping cart. There will be several information about medicine here, like company name, price of per unit etc.

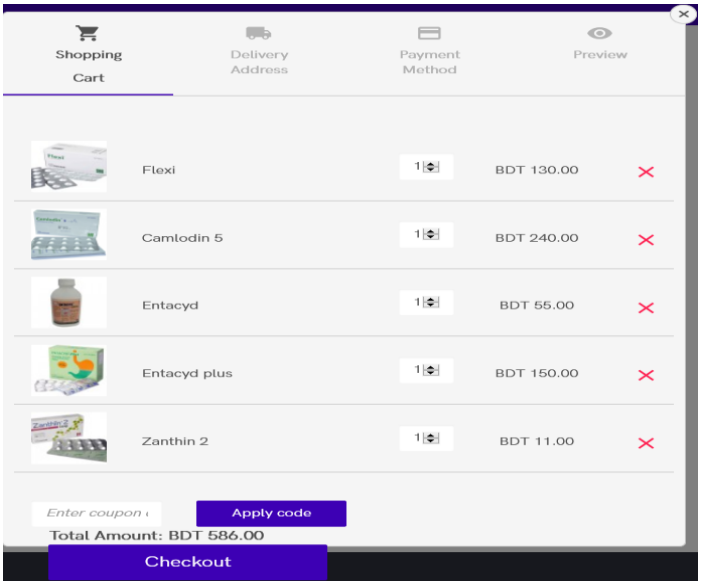

Figure 1.1.7: Shopping cart

After checkout Users have to provide their information like name, email address, location, mobile number.

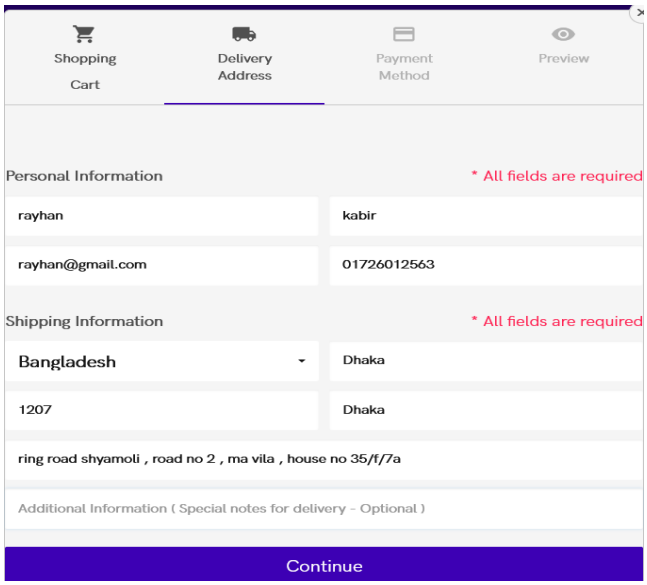

Figure 1.1.8: Customer details

After selecting the medicine, the customer has to give all the required details in the delivery address option. First of all they have to provide first name, last name, email and phone number should be given in the personal information. Then in Shipping Information with country, division, post code, area, road number and home number then select in Continue option. Pressing continue button, this information will be saved in the database.

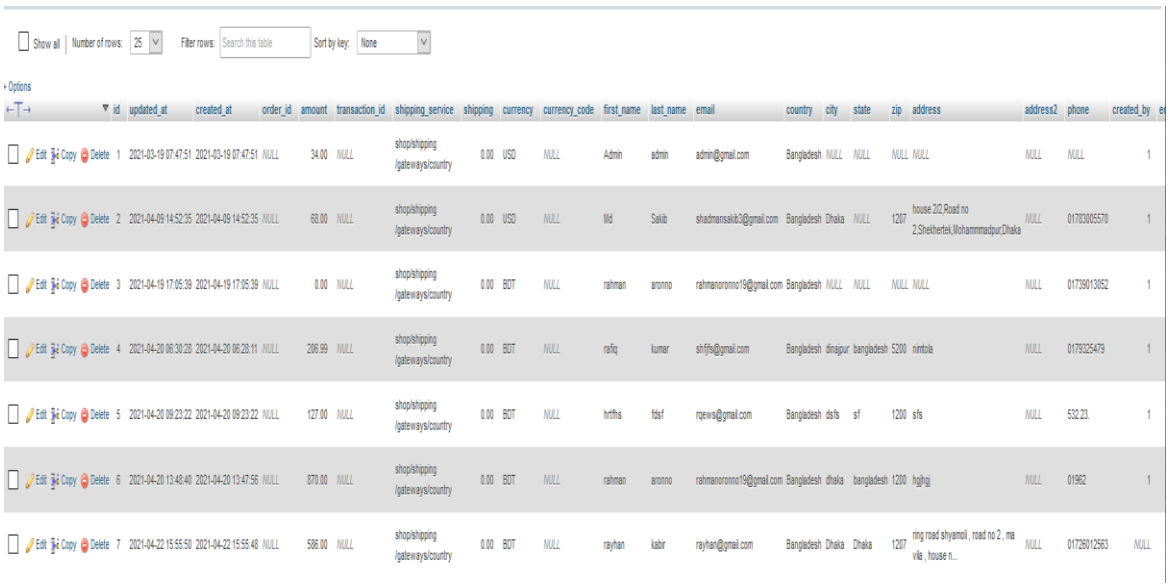

Figure 1.1.9: customer details database

After that users have to go through the payment option.

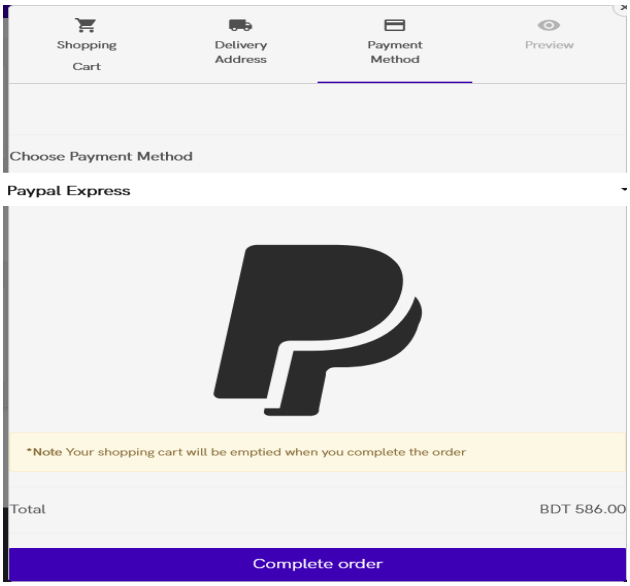

Figure 1.1.10: customer details database

After completing payment a current customer can log out. He can also login anytime.

1.7 Report Layout

This report consists of six chapters. This section gives an idea about those six chapters

1. The first chapter gives an idea about the presentation, goal, purpose, motivation, expected result.

2. In the second chapter we discuss various searches related to our work, our tasks and results.

3. In the third chapter we have given the proposed system requirements, trade model, precondition, testing structure, way of running.

4. Chapter 4 discusses the structure of our proposed web application, UI plan, backend work plan, database plan.

5. Chapter 5 deals with the implementation of the database, finding out the problems of the app and testing.

6. In Chapter 6, it consists of Conclusion, Restrictions, Differentiation and Future Action Plans.

CHAPTER 2

BACKGROUNDS

2.1 Introduction

A smart way of medicine Management approach is an e-commerce site, from where in a very short time and in compliance with the hygiene rules. All kinds of real medicines are delivered to the doorsteps of the people.

At present, people are afraid to come out from their homes because of corona virus and many of them are not able to buy the necessary medicines due to busy at work. This web application can solve all these problems in this situation. A large number of people in Bangladesh do not get medicines on time, due to lack of time or lack of medicines in nearby shops. We have created this web application considering these people. It will be a much quicker and easier solution.

2.2 Related Works

We do a lot of thinking, research and planning for our web application for all kinds of people. So that the client can handle it very easily. It's hard to figure out what's convenient inside so many web applications, so we've tried to keep the UI of our web application pretty much different than others. We've done a lot more interesting than all the other web applications. We just worked for a better user interface and to make a reliable interface.

2.3 Comparative Studies

Our web application is accessible only if you have internet. There are many web applications whose delivery system is very slow. Many user interface applications are much more critical and take a long time to understand.

Many web applications have a lot more options, which takes a lot of time for users to get through. Our A smart way of medicine Management approach app is much more convenient, easy and user friendly. Our features:

- Easy, fast and effective
- Very easy to understand user interface

- Medicines can be ordered very easily
- Cash and delivery options
- Doctor's suggestive blog

2.4 Scope of the problem

There are some common problems to be faced in web application. Such as bad UI / UX which cannot keep the user fluent in the website. In many cases the website cannot be accessed due to network issues. Also not being able to load, third party apps cause some problems. We have designed and built our website with everything in mind.

2.5 Challenges

We have had to face many challenges in doing this project. In many cases there are bugs and mistakes in the code. Then the code has to be corrected. It took a lot of work to get the codes into a good management.

Also all the problems that we have to face:

- To make the system user friendly
- To create a smooth database
- Beautiful and easy to create user interface
- The API was much more difficult to handle
- Finding and fixing bags of code
- Putting all the mini projects together

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Case Diagram

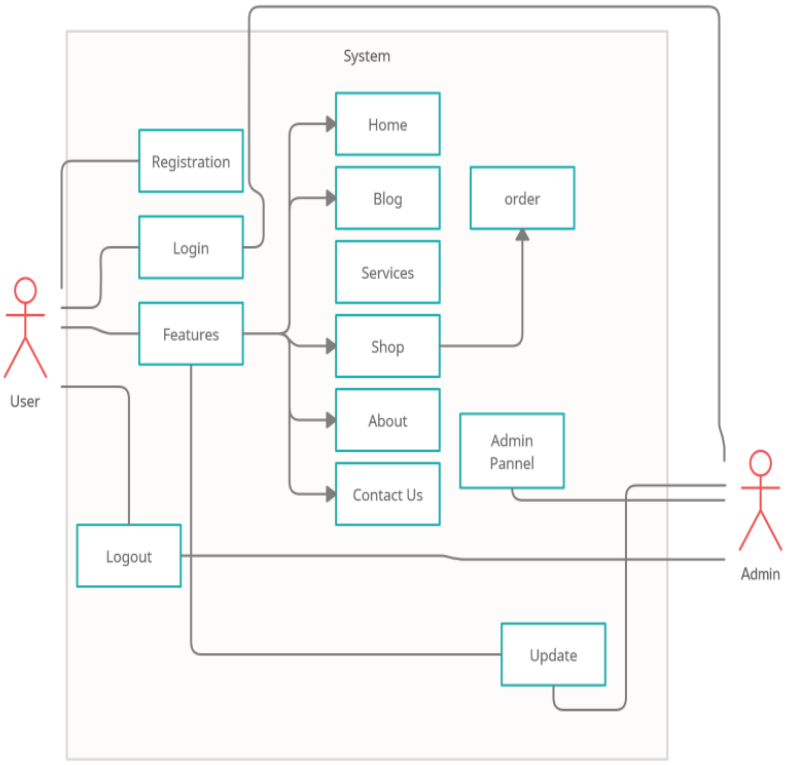

Figure 3.1.1: Use Case Diagram

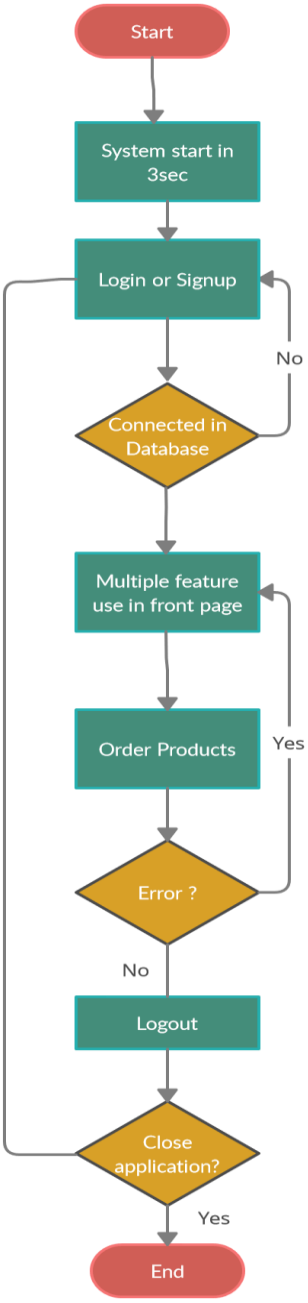

Figure 3.1.2: Flowchart of the system

Table 3.1: Use case Specification for Log in Function

Utilize case title	Login
Pre Condition	Must register or have an account open in advance
Actors	User
Purpose	For the security of the users
Main Flow	1- There will be a login option at the top of the home page 2- The system will ask for an email address and password 3- Users need to give the necessary information 4-Click to log in

Users must have an account, even if they do not have an account they can access the application. This web application has guest mode.

Table 3.2: Use case Specification for register Function

Utilize case title	Register
Pre Condition	NULL
Actors	First User
Purpose	Access to the application
Main Flow	1- There will be a register button on the homepage 2- Have to click on the register button 3- System will require: Email address, password and security captcha code 4-User have to provide required info 5-Click to register

Table 3.3: Use case Specification for Guest mood

Utilize case title	Guest mood
Pre Condition	NULL
Actors	User
Purpose	For the
Main Flow	1- There will be a login option at the top of the home page 2- The system will ask for an email address and password 3- Users need to give the necessary information 4-Click to log in

Table 3.4: Use case Specification for Add medicine

Utilize case title	Add medicine item
Pre Condition	NULL/have login
Actors	User
Purpose	For order medicine
Main Flow	1-Users will go to the homepage 2-Click on the Shop button 3-Select the required drugs and numbers from the list of drugs 4-Once the drug is selected, click on the check out option

Table 3.5: Use case Specification for Add to cart

Utilize case title	Add to cart
Pre Condition	NULL/have login
Actors	User
Purpose	For adding to shopping cart
Main Flow	1-Users will go to the homepage 2-Click on the Shop button 3-Select the required drugs and numbers from the list of drugs 4-Once the drug is selected, click on the check out option that will be automatic added to cart

Table 3.6: Use case Specification for delivery option

Utilize case title	Delivery option
Pre Condition	NULL/have login
Actors	User
Purpose	For provide delivery info
Main Flow	1-Users will go to the delivery page 2-Have to provide required all info 3-After providing all valid info, click on the continue button

Table 3.7: Use case Specification for ordered medicine list

Utilize case title	Ordered medicine
Pre Condition	Should have login
Actors	User
Purpose	For see ordered medicine
Main Flow	1-Users will go to the homepage 2-Click on the top right on users name 3-then click on the my orders 4-Once my orders clicked, It will show the ordered medicine

Table 3.8: Use case Specification for search bar

Utilize case title	Search Bar
Pre Condition	NULL/ have login
Actors	User
Purpose	Purify medicine from the list
Main Flow	1-Click on the top right corner named search option 2-User have to enter required medicine name 3-then press enter 4-Once enter clicked, It will show the searched medicine

Table 3.9: Use case Specification for home page

Utilize case title	User Home page
Pre Condition	NULL/ have login
Actors	User
Purpose	To see the home page
Main Flow	1-Go to the Home menu 2-User can see the homepage with info about “A smart way of medicine Management approach ”

Table 3.10: Use case Specification for home Log out

Utilize case title	Logout
Pre Condition	Must have login
Actors	User
Purpose	Get out of the web application
Main Flow	1-Just click on profile on the top right 2-Click on the log out

3.2 Logical Data Model

- **Security:** In this web application some records of the client are stored in the database. Through which he can log in later. Also when ordering medicine, the delivery info have stored in the database. We guarantee that our clients' information is secure.
- **Availability:** These frameworks will be accessible on the Internet. If there is no Internet and / or the application is running while the Internet is running, access will no longer be possible, as it will be disconnected.
- **Usability:** Our structure is very helpful. Anyone 15+ can use it. The application is very easy to understand and its process is user friendly.

3.3 Business Process Modeling

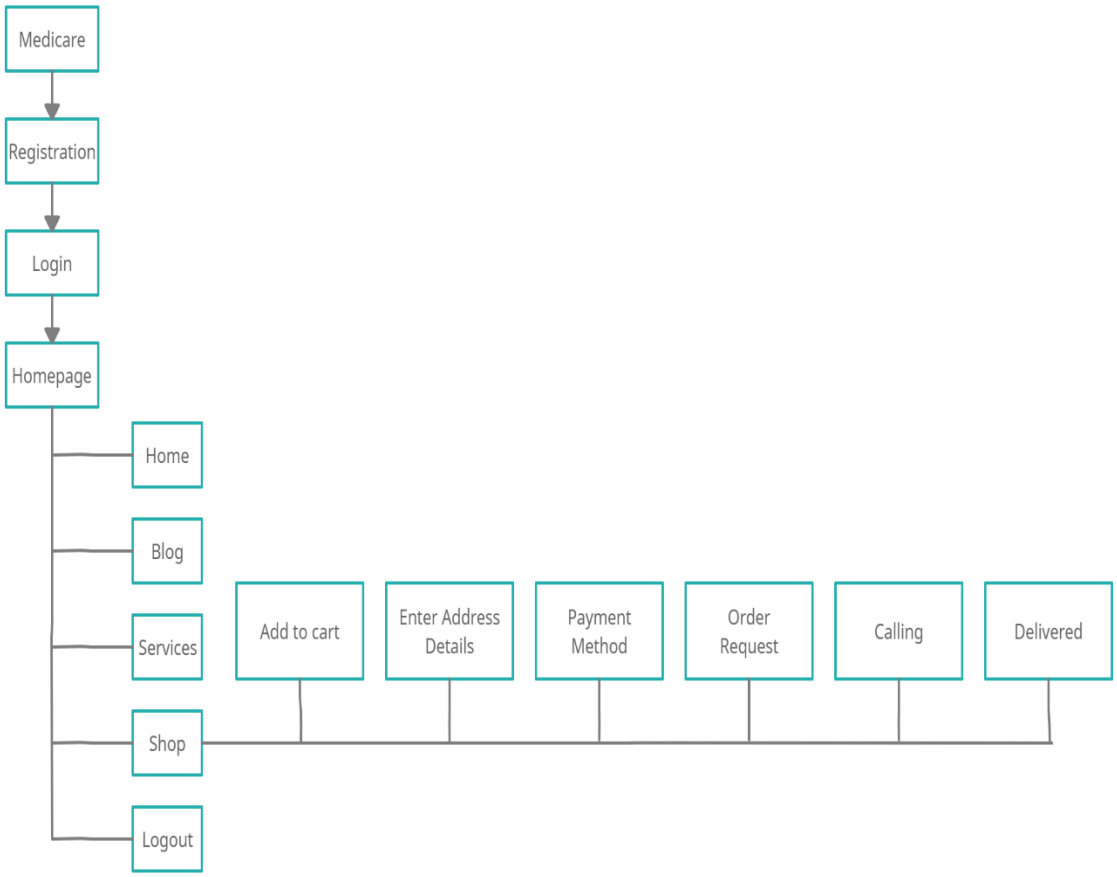

Figure 3.3.1:Use case Business Process Modeling

3.4 Requirement collection and analysis

We have used the Waterfall model as a framework. This is an easily manageable model. This model is a favorite model of many engineers because it allows work to be shared. After finishing a stage, you can go to a new stage. As a result the work became extremely perfect and convenient.

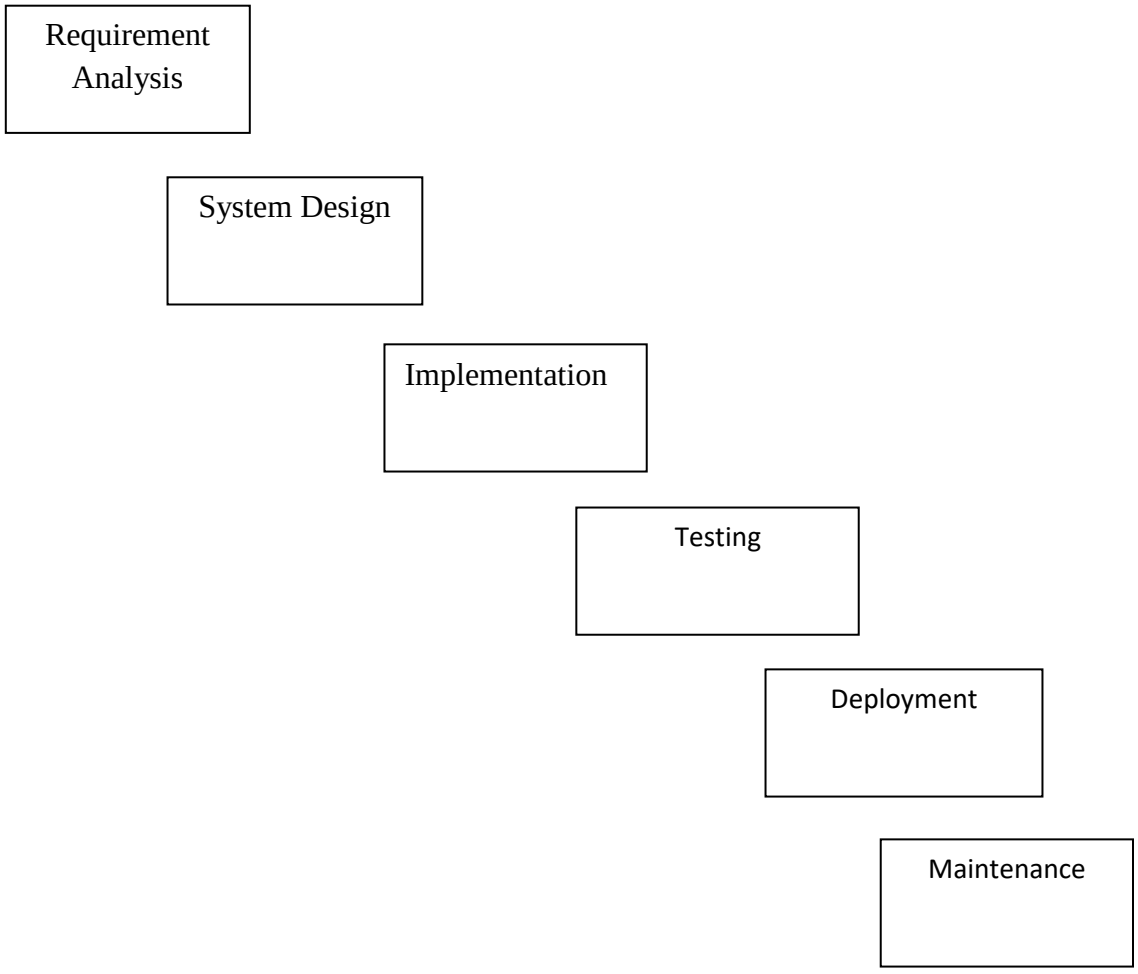

Figure 3.4.1: Waterfall Model

Another advantage of this model is that it is much easier to fix and upgrade. This model has played many roles in completing the project.

3.5 Design Requirement

It is an web application. The project is based on online platform. We have worked considering the demands of the users, where we have worked based on their requirements. So we designed it considering all aspects. We've taken suggestions from many more web applications and learned from all the minor mistakes. We work with these in mind and with clients usability in mind.

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-end Design

Front-end-design is the graphical user interface (GUI) makes content design visible to all. This is very important because it is what attracts the customer to the web application. Everything we see on a website is basically front-end.

Table 4.1.1: List of android application design

1	Home page
2	Sign up
3	Log in
4	Home
5	Blog
6	services
7	Shop
8	About
9	Contact us
10	Log out

Here HTML, CSS, BOOTSTRAP have been used for front end design. HTML is a skeleton of the web and is designed using CSS, BOOTSTRAP.

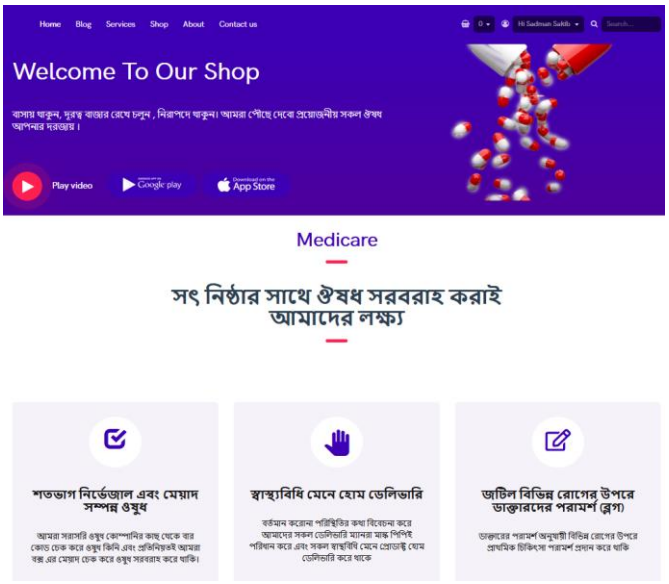

Figure 4.1.1: Home Page

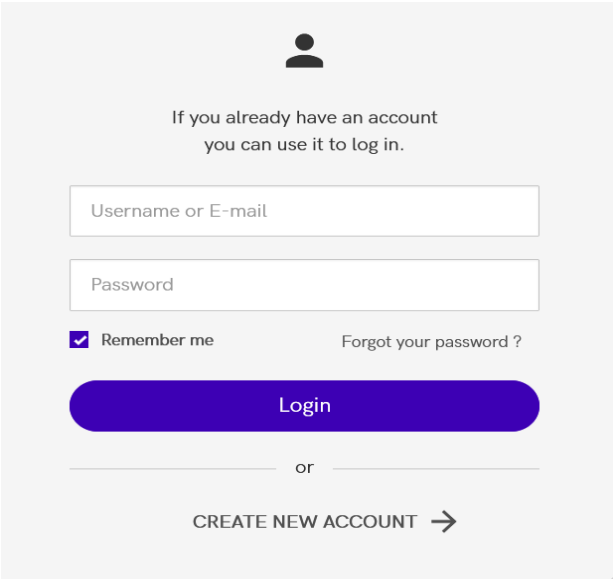

Figure 4.1.2: Login Page

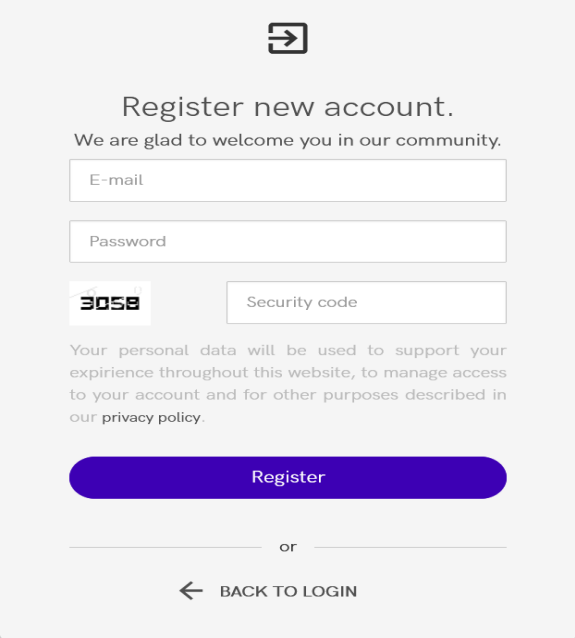

Figure 4.1.3: Registration Page

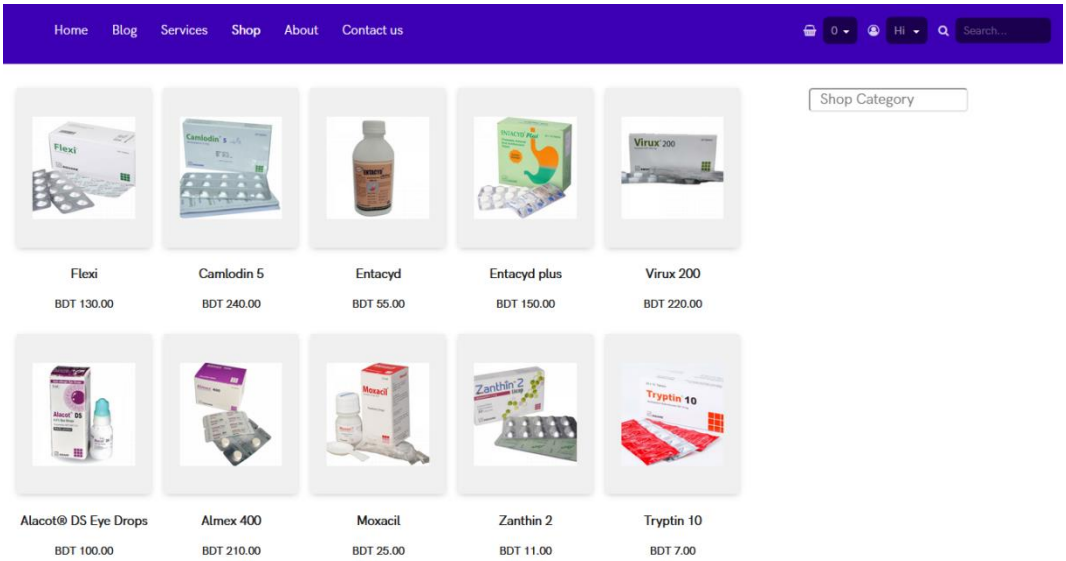

Figure 4.1.4: Shop

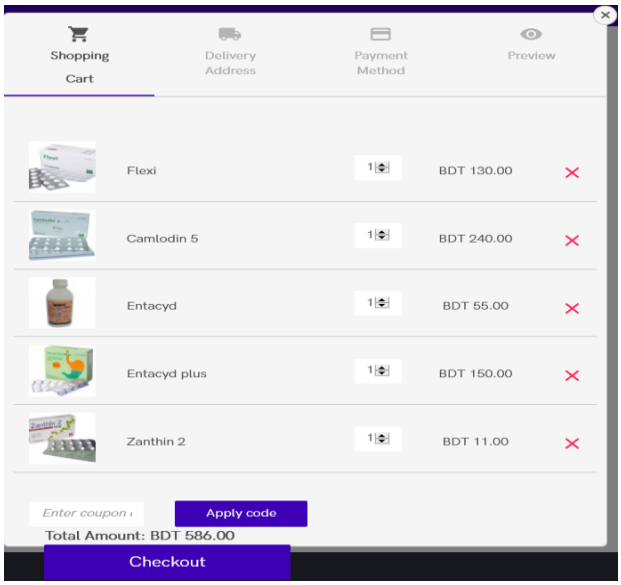

Figure 4.1.5: Shopping cart

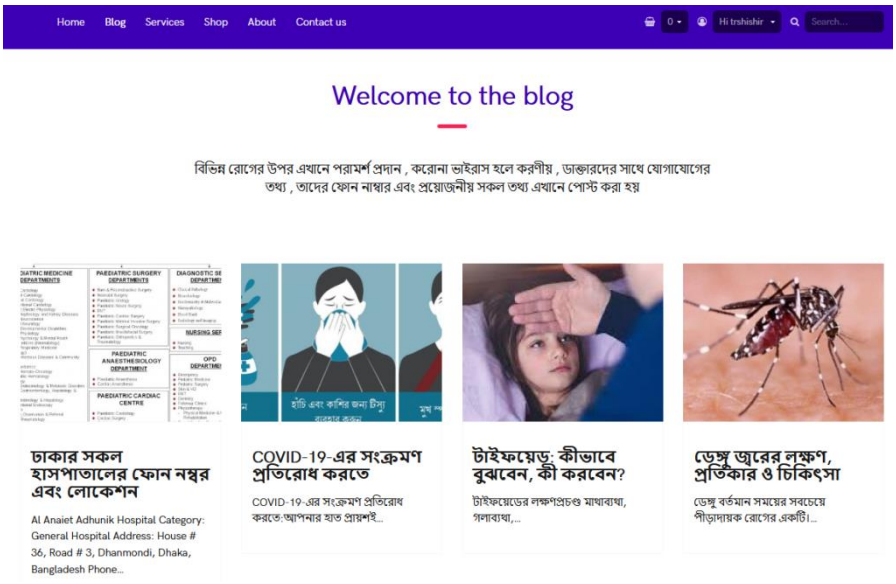

Figure 4.1.6: Blog Page

4.2 Back-end Design

The project has been developed using Laravel CMS using MVC pattern. Here all the backend work has been done basically through PHP. All data is added to phpMyAdmin database, and the data is implemented from there

Figure 4.2.1: Order details

CHAPTER 5

IMPLEMENTATION AND OUTCOME

5.1 Implementation of Database

First you have to linkup MySQL database with PHP code. The hostname in the database PHP module is localhost. database name "qtheme". user name "root". By making this connection, all the inputs given in the web application will be saved in the database. If you search for something, it will search directly from the database and show it in the web application

database.php

```php
<?php return array (
  'fetch' => 8,
  'default' => 'mysql',
  'connections' =>
  array (
    'sqlite' =>
    array (
      'driver' => 'sqlite',
      'database' => storage_path().DIRECTORY_SEPARATOR.'da
      'prefix' => '',
    ),
    'mysql' =>
    array (
      'driver' => 'mysql',
      'host' => 'localhost',
      'database' => 'qtheme',
      'username' => 'root',
      'password' => '',
      'charset' => 'utf8',
      'collation' => 'utf8_unicode_ci',
      'prefix' => 'localhost_',
      'strict' => false,
    ),
    'pgsql' =>
    array (
      'driver' => 'pgsql',
      'host' => 'localhost',
      'database' => 'forge',
      'username' => 'forge',
      'password' => '',
      'charset' => 'utf8',
      'prefix' => '',
      'schema' => 'public',
    ),
    'sqlsrv' =>
    array (
      'driver' => 'sqlsrv',
      'host' => 'localhost'
```

Figure 5.1.1: Database implementation 1

Figure 5.1.2: Database implementation 2

5.2 Implementation of Interaction

We have made our web application tick for the convenience of the client. We made it very easy and smooth. I have made sure that the client can use it extensively.

5.3 Testing Implementation

It is very important to complete the testing of the web application. We have tried to find the errors.

This part Includes –

1 . Internal Logic

2 . Input and output domain

Table 5.3.1: Test case table for “A smart way of medicine Management approach ” application

Test Case	Test Input	Expected Outcome	Actual Outcome	Result
1.Running the web application	Used some different system like windows, linux	Run successfully	Run successfully	Passed
2.Trying to sign in without Info	Blank/invalid address	Sign in info needed	Invalid input	Passed
3.Password	Blank/Invalid	Correct password needed	Incorrect pass	Passed
4.Medicine order	Blank	NULL	NULL	Passed

5.4 Test Result and Reports

Inside the test report are the details of the test. We tested it very nicely and made this table with all the information. In all the tests we have completed, we have got the expected results. So it can be said that our project is free from mistakes.

5.5 Outcome

Everything we planned before we created this web application. Much of it has been successful. The biggest advantage of this application is that people will get the medicine they need in a very short time. As a result, people are not getting home at the time of this epidemic. Their health risks are decreasing and they will get the necessary medicines and safe hands.

Also home delivery will be extremely safe and hygienic maintenance.

CONCLUSION AND FUTURE SCOPE

Conclusion

In the current context, leaving the house is much more frightening, Corona's situation is getting worse day by day. It has also become very difficult to get adulterated and all the necessary medicines at a fair price on the same platform. We will try to comply with all WHO and FDA regulations. We will deliver the medicines to the order maker very quickly. So that he can take the necessary medicine within the specified time. I also hope to be able to provide much better and customer friendly service than everyone else in this age of online shopping. Our aim is not only to provide medicines, but also to ensure that the customer can get various doctor's advice and emergency ambulance services. With this project we will be able to win by doing as expected and keep coming to a much better position.

Limitations

This project has some limitation too

- This web application is only for web based ,it has not any Android/iOS version
- Our features could not be able without internet connection
- If we can add real payment method in our app, It would be better

Future Work

Some future activities of our project are given below

- We'll develop our application in other available platforms
- We will upgrade our security system with the global rules
- We will include real payment method

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