

Development of Pharmacy Locator Application

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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/Internship titled “**Development of Pharmacy Locator Application**”, submitted by Md. Isfat Sharik, ID- 143-15-4579, Kallol Roy, ID- 161-15-869 & Md. Ashraful Islam, ID-161-15-930 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 10-12-2019.

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DECLARATION

We hereby declare that, this project has been done by us under the supervision **Md. TANVIR RAHMAN, Senior Lecturer, Department of CSE**, Daffodil International University and Co-supervision of **Saif Mahmud Parvez, 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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Finally, We must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

The technology is grooming all over the world. In this era, everyone wants flexibility in every task. In this populous country like Bangladesh, sometimes people are facing problems to find out some rare medicines. An internet based application can help finding the medicine in a better way. In this project, we want to propose a web application through which people can search for a medicine and can get the location of the pharmacy in a map. There will also be included the list of dispensaries & their dispensary locations. The application software is titled “Development of Pharmacy Locator Application”. The tailor-made software which suites the requirements of a medicine searching software is developed using HTML, CSS, jQuery, Bootstrap as frontend and Laravel for the backend. This project is an online medicine search web application. This application allows a visitor to search for a medicine and addresses of medical stores (wholesale and retail sales) where the medicine is available. This application is a solution. So, this web application is planned to develop based on the requirements of the user.

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Report Layout:

This report is organized as follow:

- Chapter 1 describes introduction, objectives and expected outcome of the project.
- Chapter 2 describes background, related works, comparative studies and scope of the Problem, Challenges of the project.
- Chapter 3 describes requirement specification, analysis and collection and modeling of the project.
- Chapter 4 describes design related issues.
- Chapter 5 describes implementation and testing related things.
- Chapter 6 describes conclusion, limitation and future development scope of the system.

CHAPTER 1

Chapter 1: Introduction

1.1 Introduction

This project “Development of Pharmacy Locator Application” is a web application of searching medicine. This application allows a user to search for a medicine and location of medicine stores (wholesale and retail sales) where the medicine is available. This application is a solution. So, this web application is planned to develop based on the requirements of the user. The user is a small scale pharmaceutical company that is distributing generic medicines to emergency medicines and having a good network of medical (retail) stores. Main need of the client is to prepare an online application to help the needy people in finding the availability of the medicine and a list of medical stores where the medicine is available. The visitor can quickly find the nearest medical store by selecting the area in the search tools. This application also provides a login account to a registered medical store. Using this account, a person from the medical store can update the list of medicines and their stock on daily-wise. This avoids providing outdated data to the visitor. Emergency medical services for chronic health problems are depending on the availability of medicines. Most of the times, unavailability of medicines affects the lives of deceased persons. Addresses of medical shops that are providing 24 hours’ service should be made available to all. Some medical shops provide door delivery service for the needy people in an emergency even though the medical shop or distributor is not providing 24 hours’ service.

1.2 Objective

- To provide a better way for finding medicines
- To save time requirement of searching medicines.
- To provide a better selling way for pharmacy owners.

1.3 Expected Outcome:

- A web platform for finding medicines.
- User can order medicine anytime from anywhere.
- It will be cost efficient for users.
- A platform for marketing.
- A platform for online selling medicine.

CHAPTER 2

Background

2.1 Introduction:

The technology is grooming all over the world. In this era, everyone wants flexibility in every task. In this populous country like Bangladesh, sometimes people are facing problems to find out some rare medicines. An internet based application can help finding the medicine in a better way. In this project, we want to propose an web application through which people can search for a medicine and can get the location of the pharmacy in a map. There will also be included the list of dispensaries & their dispensary locations.

2.2 Related Works:

For improving the Pharmacy Service and assure to handle all operations digitally with the help of technology, there are already developed and developing applications like “ePharma.com.bd” which sells medicine by their website

There is also an application named “Pharmacy.com.bd” which also gives service to the people for buying medicine from online.

2.3 Comparative Studies:

People face various problem when they want to buy a rear medicine. Sometimes old or sick people cannot go out for buy their important medicine. Our application can help them to get the medicine which they want in a short time & easy way.

2.4 Scope of the Problem:

Technology is being updated day by day. The crimes using technology are also increasing day by day with the update of technology.

As the Online Medicine Center is online and web based there could be problems like a website. If the security can be break or because of users fault or somehow un authorized user access the account of the valid users then there could be data loss, privacy loss and many problem depending on accessed account type.

2.5 Challenges:

2.5.1 Supply Medicine Instantly: When anyone want to buy medicine in an emergency case they can buy any medicine from our application & we will deliver the medicine instantly.

2.5.2 Payment & Invoice: In our application we will maintain security in payment method.

2.5.3 24/7 Service: We will provide 24/7 service to our user.

CHAPTER 3

Software Requirement Specification

3.1 Requirement collection and analysis

Requirement collection is the system where the system needs the processing of functional and non-functional data.

The collection process for the system requirement is as follows:

- Collect information by the survey from the pharmacy, doctors and general people.
- Collecting data through discussion with project conveyor.
- Medicine information is collected from website & medicine company.
- Collecting pharmacy data from pharmacy.

Requirement Tools for developing the projects:

- Php framework as Laravel.
- MySQL database.
- GraphHopper Directions API with Route Optimization
- Visual studio code IDE to develop the project.

3.2 Use Case Modeling and Description:

3.2.1 Use case diagram:

The figure 3.3.1 shows the use cases of different actors of the system.

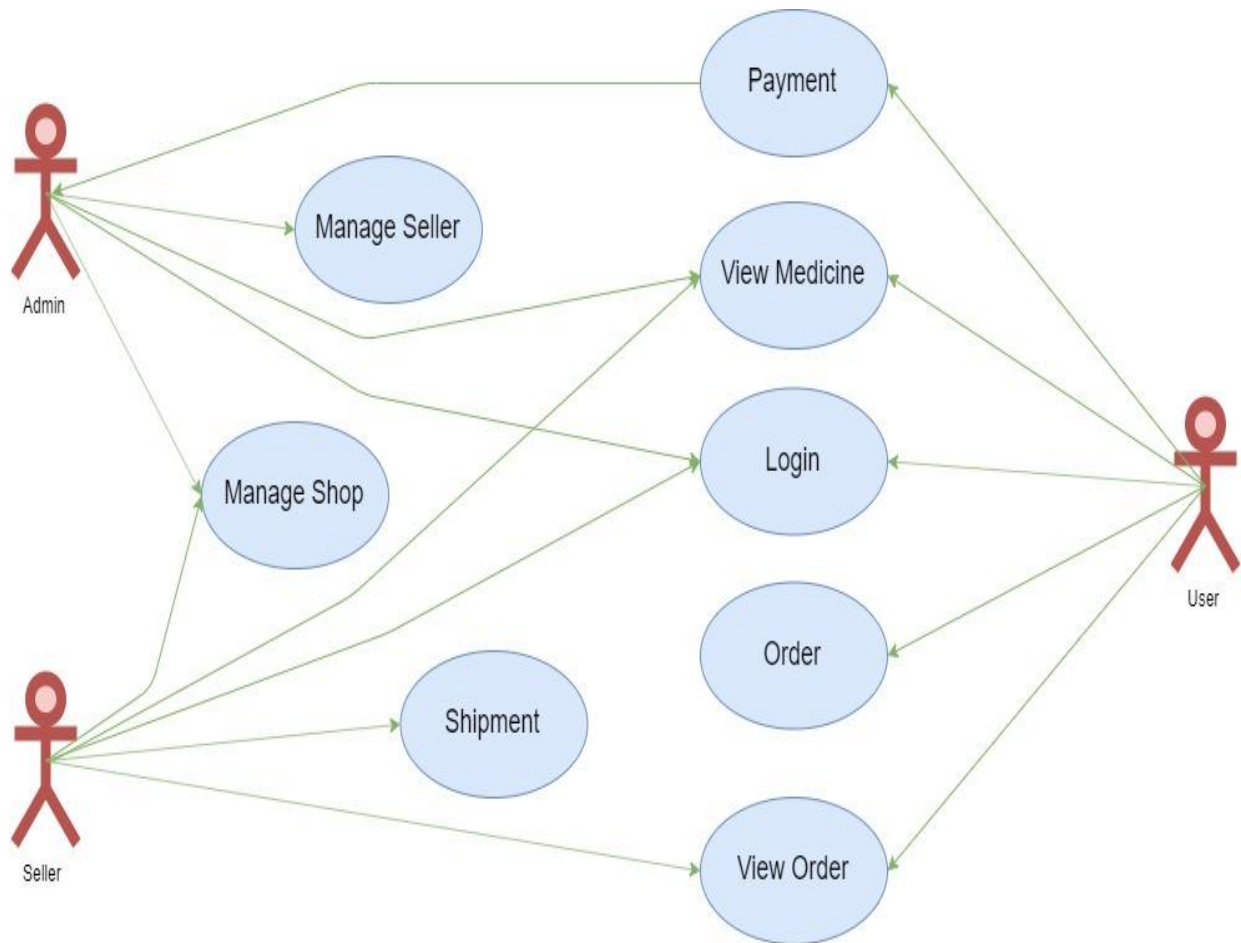


Figure 3.2.1: Use case diagram

3.2.2 Use case description:

In use case description there are some key things those are needed to be described. The main key points are name of use case, actors on the case, flow events, alternative flows, pre-condition, and post condition.

A dialog was written in website “You may get bird-eye view from a use case.

Some of the use cases are described below following the key points.

TABLE 3.2.2.1 Use case description of Registration.

Use Case Name	Registration
Actors	Admin, Seller, Manager, User.
Flow of Events	1. Browse Website. 2. Fill up information. 3. Submit.
Alternative Flows	2 Cannot Log in.
Pre-condition	Browse Website.
Post Condition	1. Accept terms & conditions 2. Log in 3. View dashboard.

TABLE 3.2.2.2 Use case description of log in.

Use Case Name	Log in
Actors	Admin, Seller, Manager, User.
Flow of Events	1. Browse, 2.Registration 3. Login.
Alternative Flows	1. Not able to get service.
Pre-condition	Registration & proper authentication.
Post Condition	Item Should buy & discard.

TABLE 3.2.2.3 Use case description of view medicine.

Use Case Name	View Medicine
Actors	Admin, Seller, Manager, User.
Flow of Events	1.Browse website
Alternative Flows	Can't view the details about selected medicine.
Pre-condition	1. Browse website.
Post Condition	1. Order medicine, 2. Add cart, 3. Payment

TABLE 3.2.2.4 Use case description of Order Medicine.

Use Case Name	Order Medicine
Actors	User
Flow of Events	1. Registration 2. Log in, 3. View medicine
Alternative Flows	Can't Payment or Buy the medicine.
Pre-condition	Login & proper authentication, View
Post Condition	Can Payment & buy & give ratings.

TABLE 3.2.2.5 Use case description of Manage Users.

Use Case Name	Manage User
Actors	Admin
Flow of Events	Registration & Login as Admin.
Alternative Flows	Cannot manage users
Pre-condition	Login & proper authentication as Admin
Post Condition	Manage Users

TABLE 3.2.2.6 Use case description of Manage Shop.

Use Case Name	Manage Shop.
Actors	Seller, Admin, Manager
Flow of Events	Registration & Login.
Alternative Flows	Cannot add, update or delete products.
Pre-condition	Login & proper authentication.
Post Condition	Can add, update or delete products.

TABLE 3.2.2.7 Use case description of Search Medicine.

Use Case Name	Search Medicine
Actors	User
Flow of Events	1. Sign up 2.Log in as user.
Alternative Flows	1.Not found
Pre-condition	Login & proper authentication
Post Condition	Order Medicine, Payment Medicine.

TABLE 3.2.2.8Use case description of Search Medicine.

Use Case Name	Log out
Actors	Admin, Seller, Manager, User.
Flow of Events	Registration, Login.
Alternative Flows	Don't end the session.
Pre-condition	Login & proper authentication
Post Condition	Has no session.

3.3 Database Schema

3.3.1 Database Schema

Admins (id ,f_name,l_name,email,contact,passwprd,created_at,update_at)

sellers (id ,f_name,l_name,email,nid,tin,contact,passwprd,created_at,update_at)

users (id ,f_name,l_name,email,contact,address,passwprd,created_at,update_at)

shops (id ,shop_name,m_name,m_email,s_address ,s_contact, seller id,
latitude, longitude,passwprd,created_at,update_at)

prescriptions (id , name, address,contact, course, image, status,user id,
created_at,update_at)

orders (id ,user id,total,status,created_at,update_at)

payments (id ,order id,account_no,trx_id,amount,method,status,created_at,update_at)

ratings (id ,medicine id,order id,rating,feedback,contact,created_at,update_at)

medicines (id,medicine_id,medicine_name,company_name,generic_namemedicine_type,
shop id ,medicine_price,description,image,created_at,update_at)

order_details(id ,order id, shop id,medicine id,quantity,subtotal,shipped,
created_at,update_at)

shippings (id ,user id,order id, shipped_to,contact,addrress,status,
created_at,update_at)

3.4 ER Diagram:

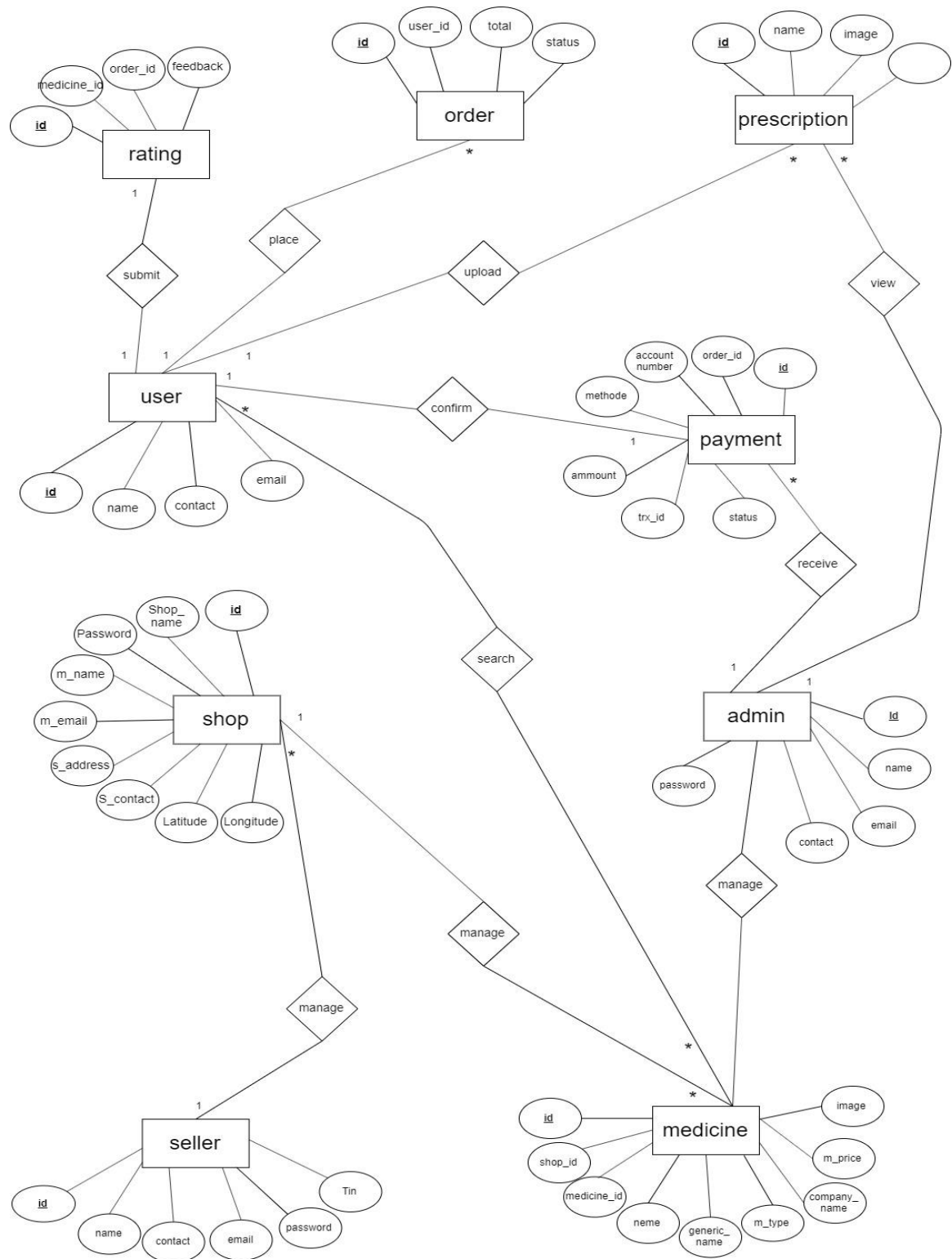


Figure 3.4.1: ER Diagram.

3.5 Design Requirements:

The system look and user interfaces have a lot to do with the design requirements. In essence, to have the required design, it defines some key requirements. The design requirements can come from the users or clients ' side, design management plan and engaged design consultants.

There are many design requirements in the project that need to be faced.

- I. The overflows will be disabled in the elements.
- II. We need all the sidebar elements and options to be clearly displayed in the view of the mobile or tablet view.
- III. All the tables columns shown in the desktop view must also be shown on the screen of the phone & tablet.
- IV. For mobile and tablet browsing Sidebar should be toggle-able by a button and the in-default sidebar will be hidden.
- V. To keep the user signed in for 30 days, we need a clear option for users to choose to remember the password.
- VI. Have a dashboard that will be designed having some quick actions of information depending on the user types.

CHAPTER 4

Design Specification

4.1 Activity diagrams:

The figure 4.1.1 shows activity diagram on Admin Registration:

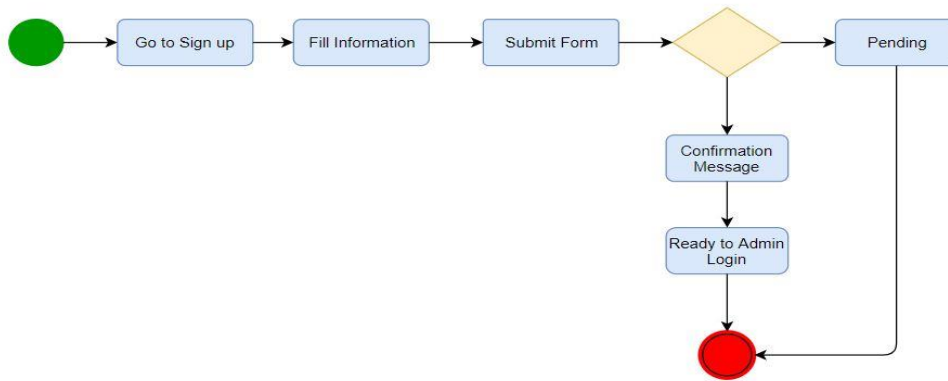


Figure 4.1.1: Activity diagram of Admin Registration.

The figure 3.1.2 shows activity diagram of seller registration

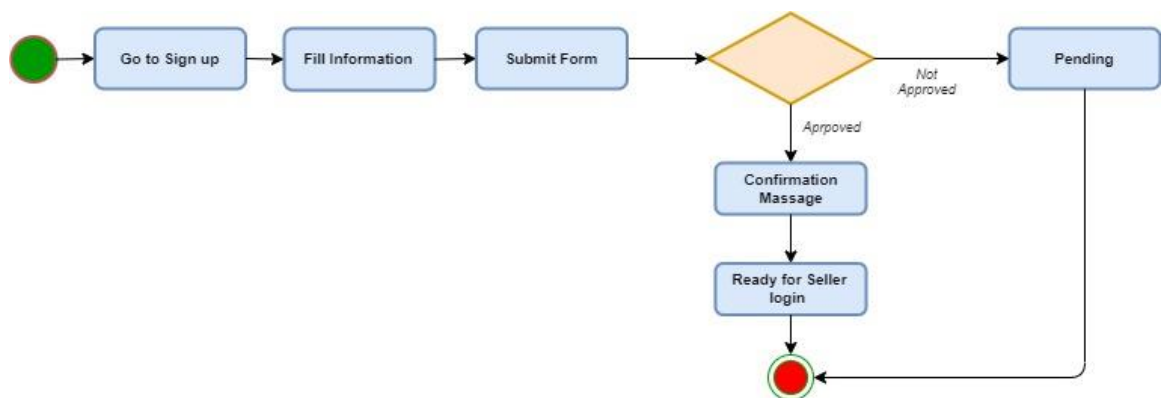


Figure 4.1.2: Activity diagram of seller registration

The figure 4.1.3 shows activity diagram of manager registration:

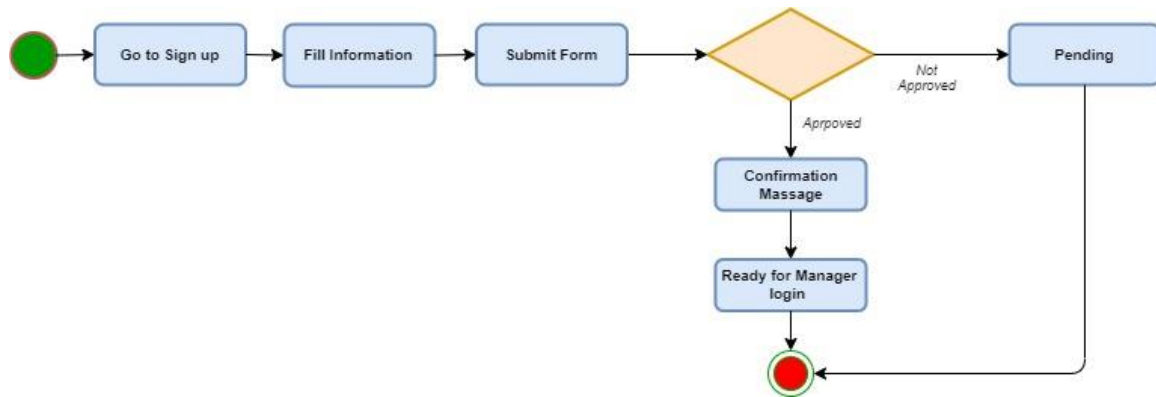


Figure 4.1.3 Activity diagram of manager registration.

The figure 4.1.4 shows activity diagram of User Registration:

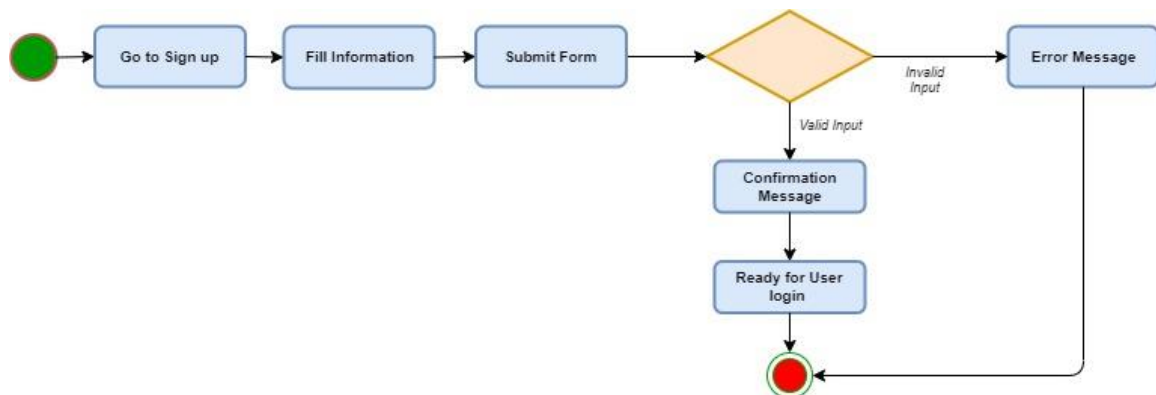


Figure 4.1.4 Activity diagram of User Registration.

The figure 4.1.5 activity diagram of admin login:

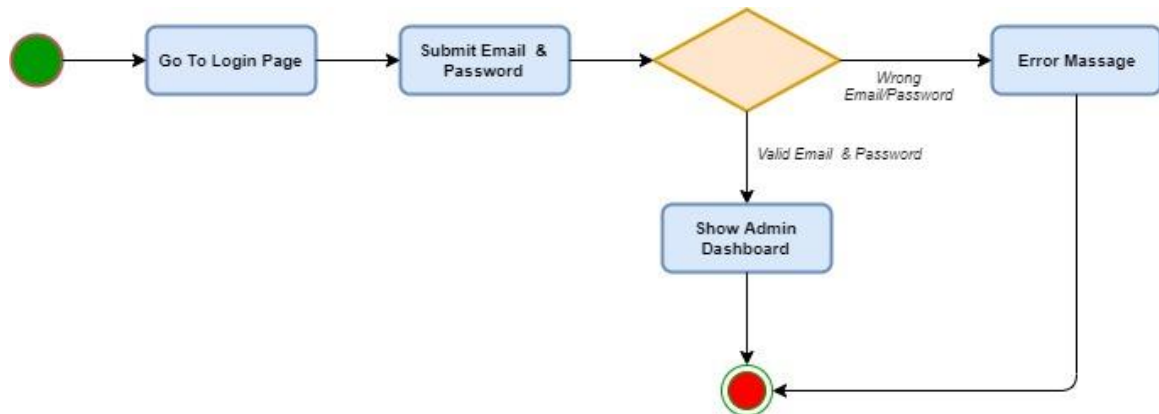


Figure 4.1.5 Activity diagram of admin login.

The figure 4.1.6 activity diagram of seller login.

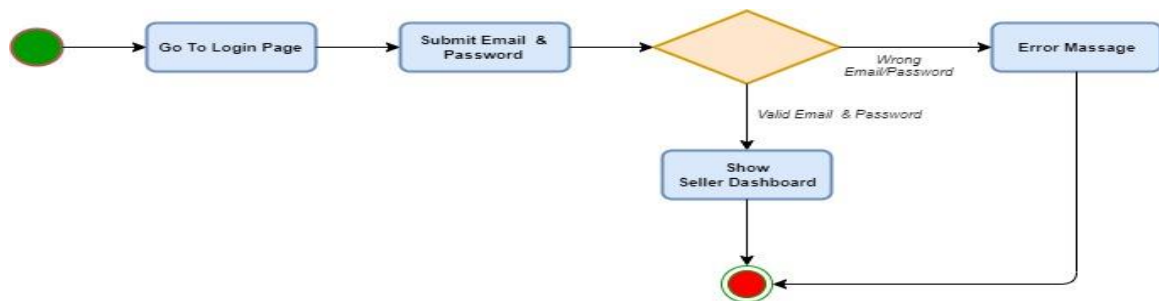


Figure 4.1.6 Activity diagram of seller login.

The figure 4.1.7 shows activity diagram manager login:

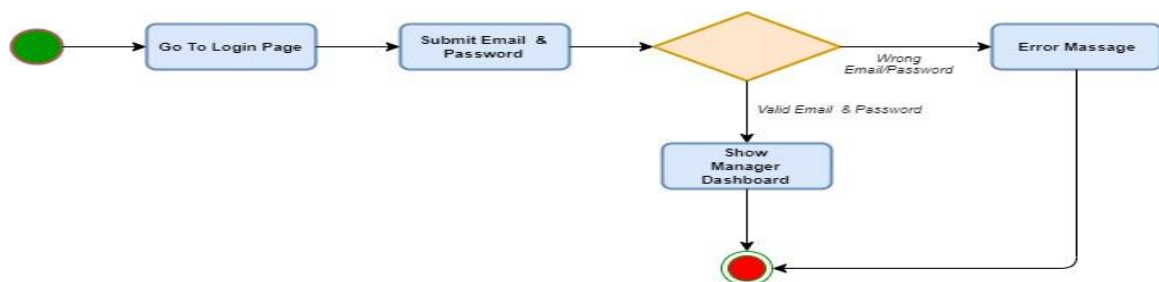


Figure 4.1.7 Activity diagram of manager login.

The figure 4.1.8 shows activity diagram of user login:

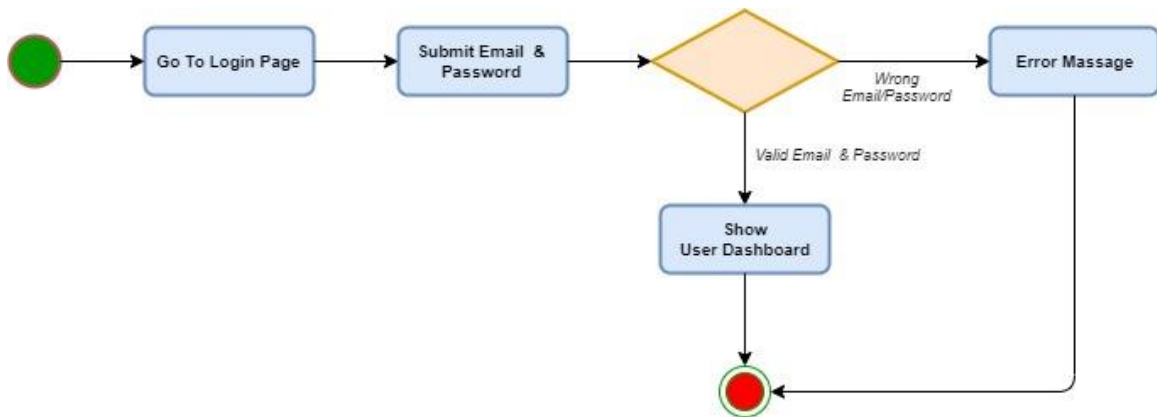


Figure 4.1.8 Activity diagram of user login.

Figure 4.1.9 Activity diagram of order:

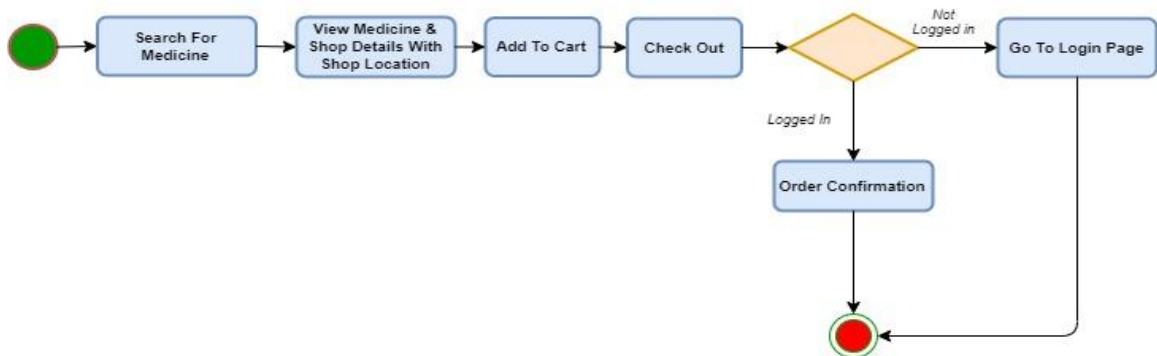


Figure 4.1.9 Activity diagram of order.

The figure 4.1.10 shows activity diagram of payment:

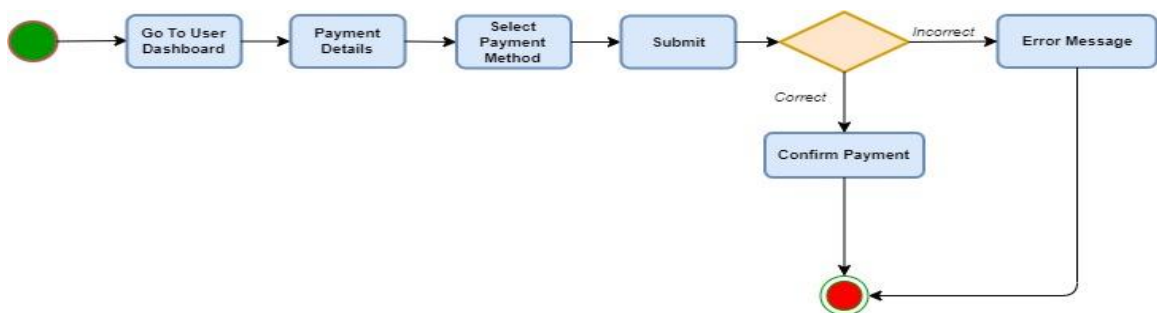


Figure 4.1.10 Activity diagram Class Teacher Promote students

4.2 Front End Design:

The design has many good user interfaces featured and attractive. Device users will be delighted to see user interfaces that are simple and transparent. Essentially, html5, css3, JavaScript are used in the project software for development purposes. Also used to improve the development and software are numerous plugins, such as bootstrap, amazing font, quarterly, data list, date picker and more plug ins. The system has too many user interfaces to add to the report, but this will be lengthy, given some of those interfaces ' screenshot.

The figure 4.2.1 Shows Admin Registration page

Online Medicine Center

User Login
Admin Login
Seller Login
Manager Login

Admin Registration

First Name
Last Name
E-Mail Address
Contact Number
Password
Confirm Password

Register

Place your registration request, an admin will verify and confirm your request!

Copyright © 2019 - Online Medicine Center

Figure 4.2.1: Admin Registration page

The figure 4.2.2 Shows Seller Registration page

Online Medicine Center

User Login
Admin Login
Seller Login
Manager Login

Seller Registration

First Name
Last Name
E-Mail Address
Contact Number
Password
Confirm Password
NID No.
Trade Licence No.

Register

Place your registration request, an admin will verify and confirm your request!

Copyright © 2019 - Online Medicine Center

Figure 4.2.2: Seller Registration page

The figure 4.2.3 Shows User Registration page

Online Medicine Center

User Login
Admin Login
Seller Login
Manager Login

Registration

First Name
Last Name
E-Mail Address
Contact Number
Password
Confirm Password
Address

Register

Place your registration request, an admin will verify and confirm your request!

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Figure 4.2.3: User Registration page

The figure 4.2.4 Shows Seller login page

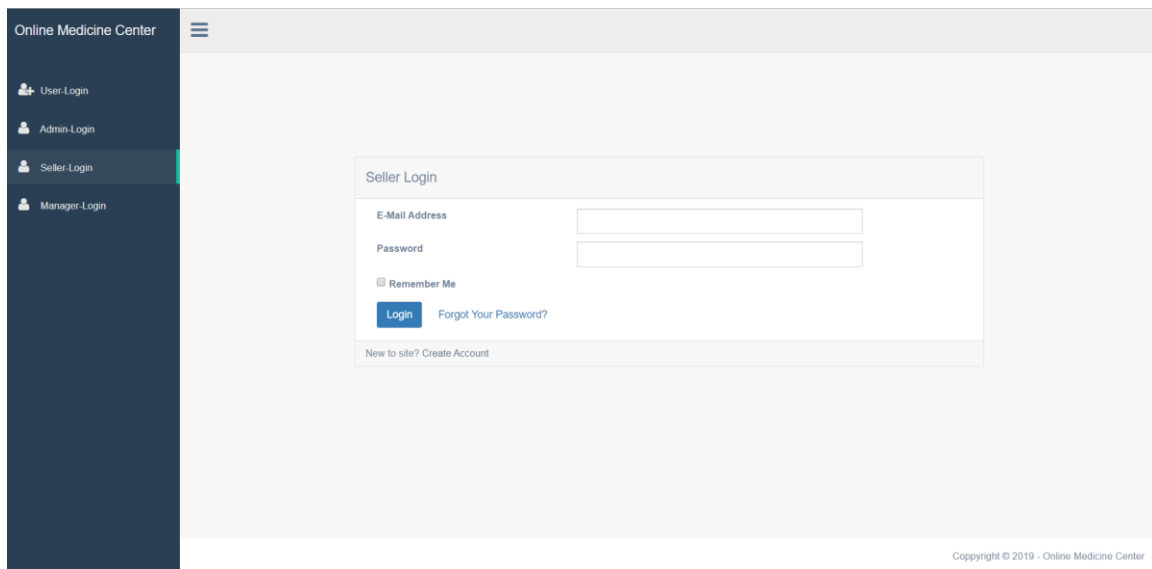


Figure 4.2.4: Seller login page

The figure 4.2.5 Shows Manager login page.

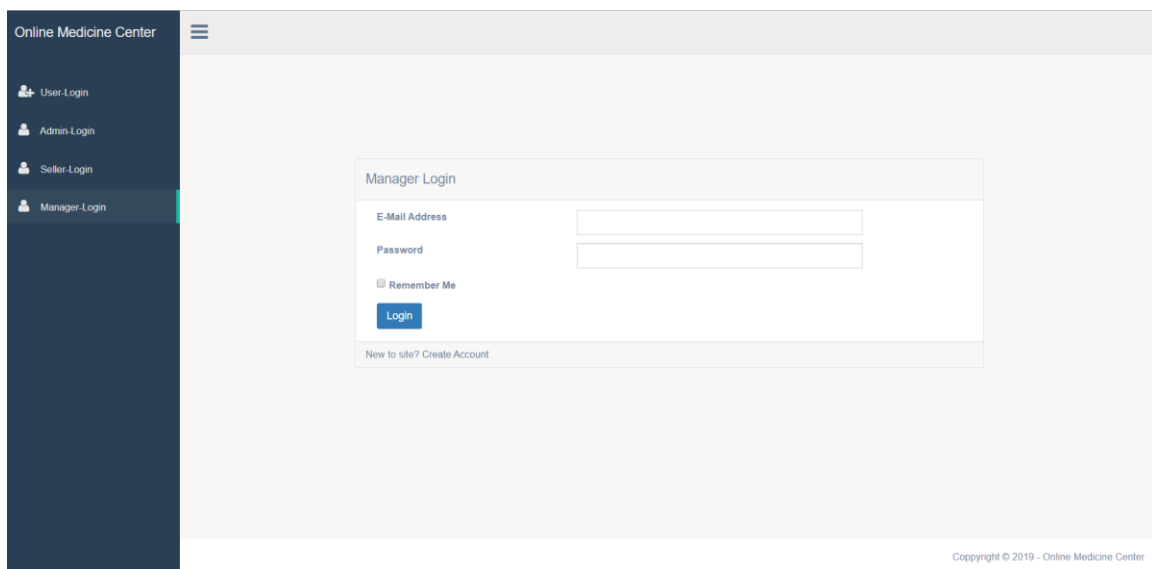


Figure 4.2.5: Manager login page.

The figure 4.2.6 Shows User login page.

Online Medicine Center

User-Login
Admin-Login
Seller-Login
Manager-Login

Login

E-Mail Address

Password

☐ Remember Me

Login Forgot Your Password?

New to site? Create Account

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Figure 4.2.6: User login page.

The figure 4.2.7 Shows Admin Password Reset

Online Medicine Center

User-Login
Admin-Login
Seller-Login
Manager-Login

Reset Password

E-Mail Address

Send Password Reset Link

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Figure 4.2.7: Admin Password Reset

The figure 4.2.8 Shows the Seller Password Reset.

The screenshot shows the 'Online Medicine Center' interface. On the left is a dark blue sidebar with a menu containing 'User-Login', 'Admin-Login', 'Seller-Login', and 'Manager-Login'. The main content area has a light gray background. At the top of this area is a green header bar with the text 'Reset Password'. Below this is a white rectangular form. Inside the form, the text 'E-Mail Address' is followed by a text input field. Below the input field is a green button with the text 'Send Password Reset Link'. At the bottom right of the page, there is a small copyright notice: 'Copyright © 2019 - Online Medicine Center'.

Figure 4.2.8: Seller Password Reset

The figure 4.2.9 Shows User Password Reset.

This screenshot is identical to the one for Figure 4.2.8. It shows the 'Online Medicine Center' interface with a sidebar menu and a main content area. The main content area features a green 'Reset Password' header, a white form with an 'E-Mail Address' input field, and a green 'Send Password Reset Link' button. The copyright notice 'Copyright © 2019 - Online Medicine Center' is visible at the bottom right.

Figure 4.2.9: User Password Reset

The figure 4.2.10 shows the Admin dashboard.

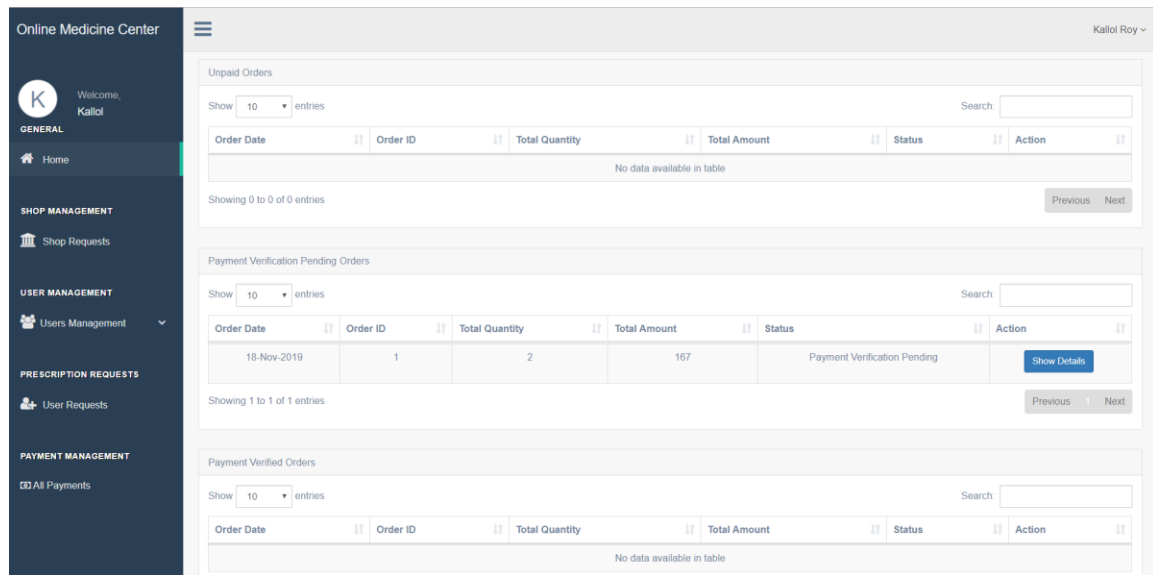


Figure 4.2.10 Admin dashboard.

The figure 4.2.11 shows the Seller dashboard.

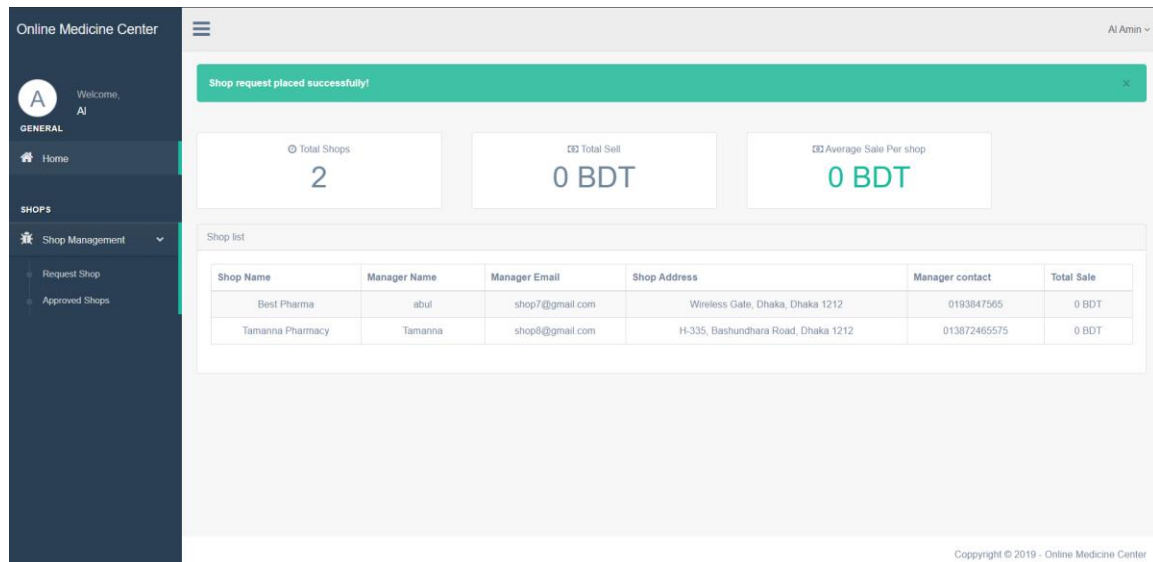


Figure 4.2.11 Seller dashboard.

The figure 4.2.12 shows the User dashboard.

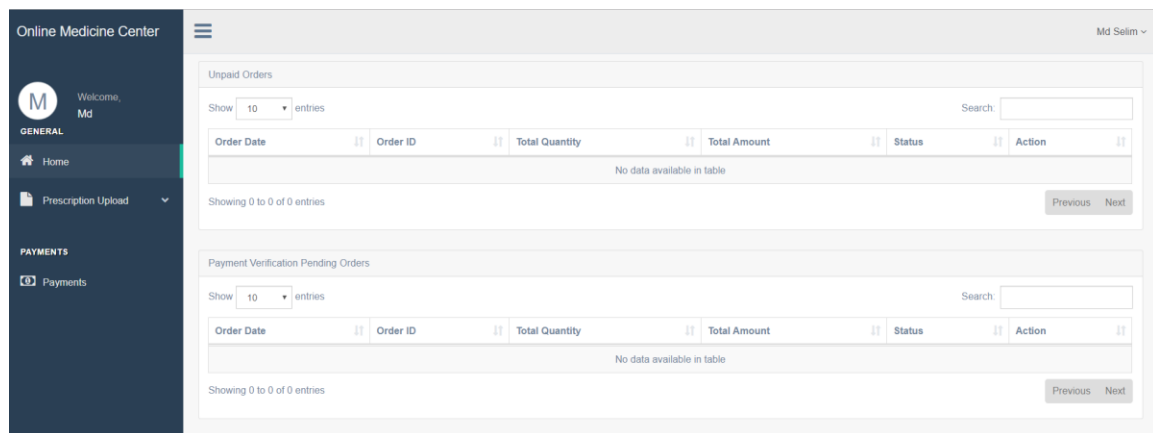


Figure 4.2.12 User dashboard.

The figure 4.2.13 shows the manager dashboard.

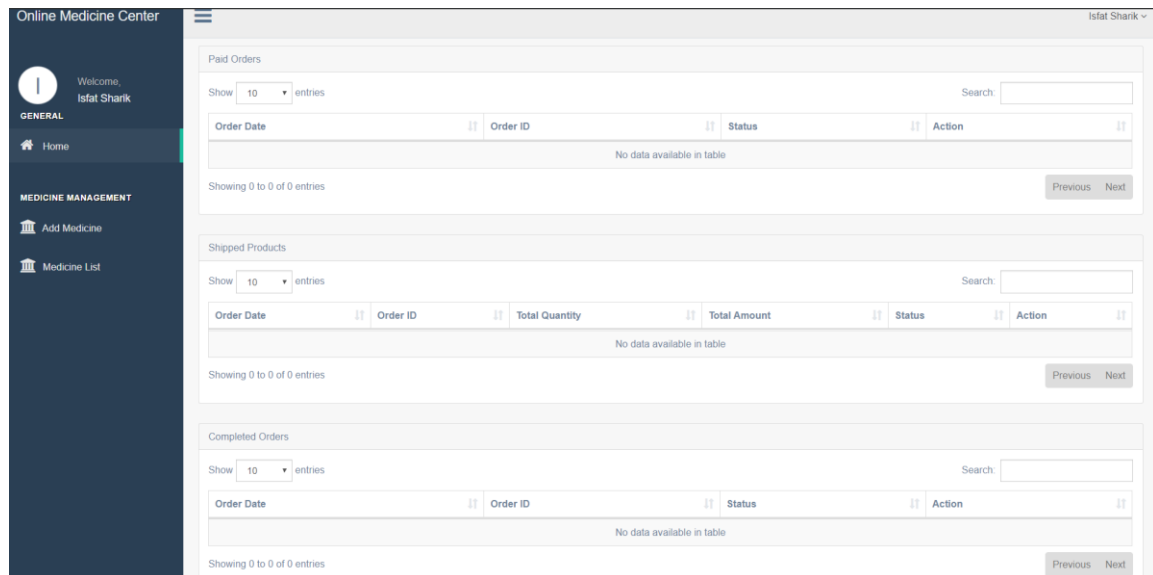


Figure 4.2.13 Manager dashboard.

The figure 4.2.14 shows the home page.

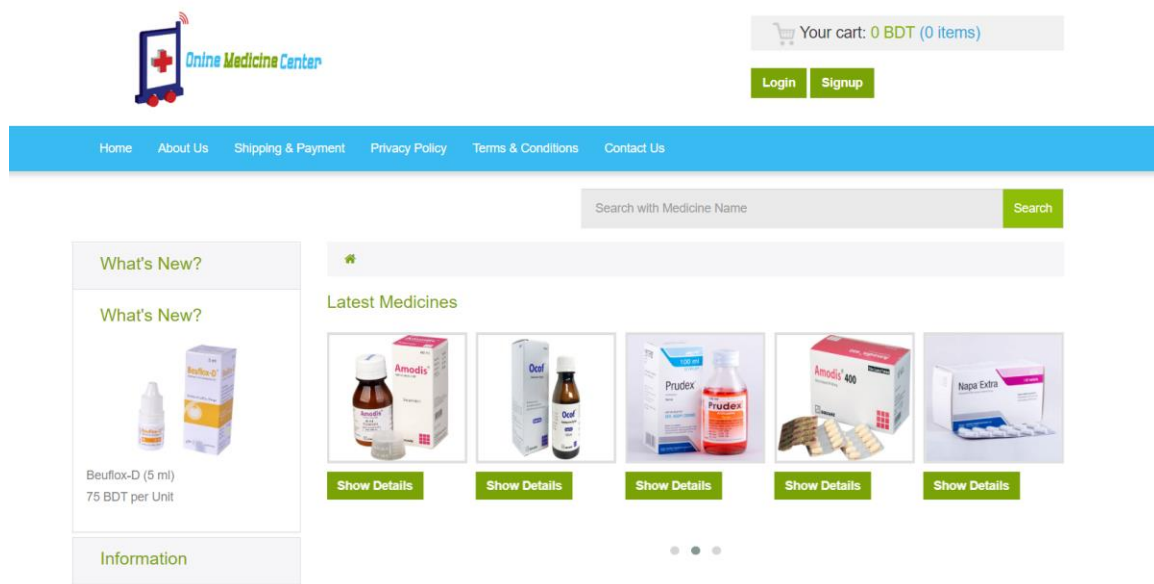


Figure 4.2.14 Home page.

The figure 4.2.15 Shows Admin Shop Request

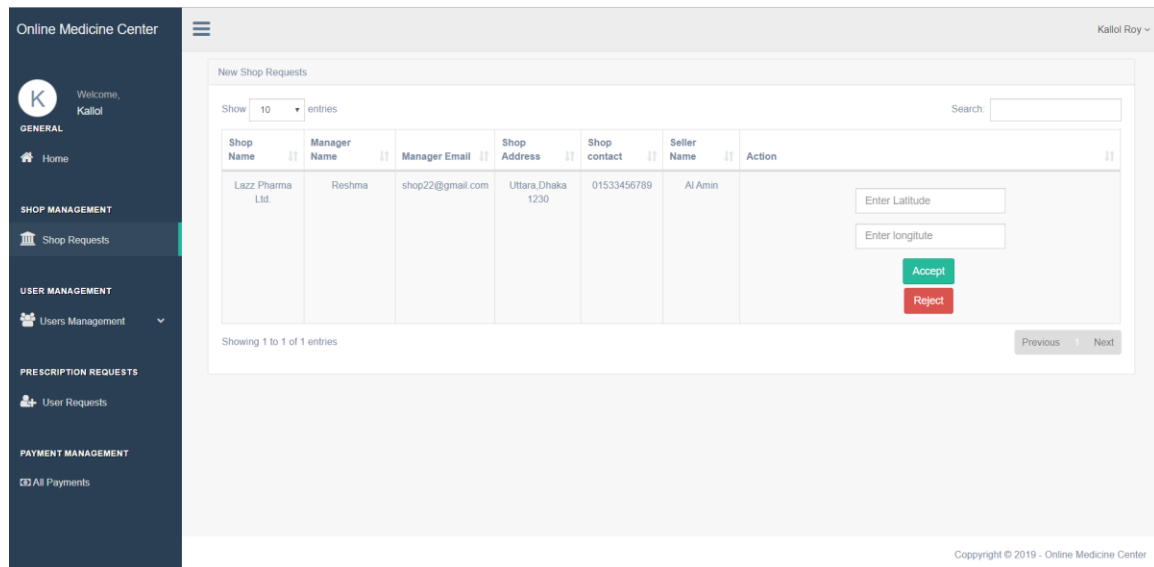


Figure 4.2.15 Admin Shop Request

The figure 4.2.16 shows Admin Profile

Online Medicine Center

Welcome, Kallol

GENERAL

- Home

SHOP MANAGEMENT

- Shop Requests

USER MANAGEMENT

- Users Management

PRESCRIPTION REQUESTS

- User Requests

PAYMENT MANAGEMENT

- All Payments

Your Profile

Frist Name	Last name Name	Your Email	Your contact	Action
Kallol	Roy	admin@gmail.com	017123456789	Edit

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Figure 4.2.16 Admin Profile

The figure 4.2.17 shows New Admin Request

Online Medicine Center

Welcome, Kallol

GENERAL

- Home

SHOP MANAGEMENT

- Shop Requests

USER MANAGEMENT

- Users Management
 - Admin Requests
 - Seller Requests
 - Approved Seller List
 - Inactive Seller List
 - Approved Admin List

PRESCRIPTION REQUESTS

- User Requests

New Admin Requests

Show 10 entries

Search:

Frist Name	Last name Name	Admin Email	Shop contact	Action
Admin	Admin	admin4@gmail.com	017398764532	Accept Reject

Showing 1 to 1 of 1 entries

Previous Next

Figure 4.2.17 New Admin Request

The figure 4.2.18 shows the Inactive Seller list

Online Medicine Center

Welcome, Kallol

GENERAL

- Home

SHOP MANAGEMENT

- Shop Requests

USER MANAGEMENT

- Users Management
 - Admin Requests
 - Seller Requests
 - Approved Seller List
 - Inactive Seller List
 - Approved Admin List

PRESCRIPTION REQUESTS

- User Requests

All Seller

Frist Name	Last name Name	Seller Email	Seller contact	Seller NID	Action
Seller	Seller	seller10@gmail.com	0134985743829	1024985782	Active

Figure 4.2.18 Inactive Seller list

The figure 4.1.19 Shows Admin Approve Seller List.

Online Medicine Center

Welcome, Kallol

GENERAL

- Home

SHOP MANAGEMENT

- Shop Requests

USER MANAGEMENT

- Users Management
 - Admin Requests
 - Seller Requests
 - Approved Seller List
 - Inactive Seller List
 - Approved Admin List

PRESCRIPTION REQUESTS

- User Requests

New seller Requests

Show 10 entries

Search:

Frist Name	Last name Name	Seller Email	Seller contact	Seller NID	Action
Robin	son	seller5@gmail.com	012384765	47632178	Show shops Enter the Ban Reason Ban
Nilu	Akter	seller6@gmail.com	0137621324	2109387465	Show shops Enter the Ban Reason Ban
Kallol	kallol	seller2@gmail.com	0123474345	92347358	Show shops Enter the Ban Reason Ban
Istiak	Alom	seller3@gmail.com	0197432657	29837564728	Show shops Enter the Ban Reason

Figure 4.2.19: Approve Seller List.

The figure 4.2.20 Shows Approve New Admin

Online Medicine Center

Welcome, Kallol

GENERAL

- Home

SHOP MANAGEMENT

- Shop Requests

USER MANAGEMENT

- Users Management
 - Admin Requests
 - Seller Requests
 - Approved Seller List
 - Inactive Seller List
 - Approved Admin List

PRESCRIPTION REQUESTS

- User Requests

PAYMENT MANAGEMENT

- All Payments

New Admin Requests

Show 10 entries

Search:

Frist Name	Last name Name	Admin Email	Shop contact
Kallol	Roy	admin@gmail.com	017123456789
Admin	Admin	admin4@gmail.com	017398764532

Showing 1 to 2 of 2 entries

Previous 1 Next

Figure 4.2.20 Approve New Admin

The figure 4.1.21 Admin All Payments

Online Medicine Center

Welcome, Kallol

GENERAL

- Home

SHOP MANAGEMENT

- Shop Requests

USER MANAGEMENT

- Users Management
 - Admin Requests
 - Seller Requests
 - Approved Seller List
 - Inactive Seller List
 - Approved Admin List

PRESCRIPTION REQUESTS

- User Requests

PAYMENT MANAGEMENT

- All Payments

Payment Details

Show 10 entries

Search:

Payment Date	Order No.	Account No.	Method	Amount Paid	Transaction ID	Status
18/Nov/2019 - 11:56 PM	1	987654345	nagad	167 BDT	9876545678	Unverified

Showing 1 to 1 of 1 entries

Previous 1 Next

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Figure 4.2.21 Admin All Payments

The figure 4.2.22 Shows manager profile.

Online Medicine Center

Welcome, Isfat Sharik

GENERAL

Home

MEDICINE MANAGEMENT

Add Medicine

Medicine List

Your Profile

Your Name	Your Email	Action
Isfat Sharik	shop1@gmail.com	Edit

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Figure 4.2.22 Shows manager profile.

The figure 4.1.23 shows Manager medicine list

Online Medicine Center

Welcome, Isfat Sharik

GENERAL

Home

MEDICINE MANAGEMENT

Add Medicine

Medicine List

Medicine List

Show 10 entries

Search:

Medicine ID	Medicine Name	Company Name	Generic Name	Medicine Type	Medicine price	Shop Name	Description	Image	Action
L-987656	Tusca Plus	Square Pharmaceuticals Ltd.	Guaifenesin + Levomenthol + Diphenhydramine	Syrup	80 BDT/Pcs	Lazz Pharma	Indications Thi....		Edit delete
L-934647382	Neoceptin	Beximco Pharmaceuticals Ltd.	Ranitidine	Injection	10 BDT/Pcs	Lazz Pharma	Indications "Ra....		Edit delete
L-8754	Prudex	Beximco Pharmaceuticals Ltd.	Dextromethorphan + Pseudoephedrine + Triprolidine	Syrup	70 BDT/Pcs	Lazz Pharma	Composition Eac....		Edit delete
L-293847	Ace Plus	Square Pharmaceuticals Ltd.	Paracetamol + Caffeine	Tablet	1 BDT/Pcs	Lazz Pharma	Indications The....		Edit delete
L-29356789	Flumetanol	Aristopharma Ltd.	Clioquinol + Flumetasone Pivalate	Ear Drop	100 BDT/Pcs	Lazz Pharma	Indications Thi....		Edit delete

Figure 4.2.23 Manager medicine list

The figure 4.2.24 Shows Manager Add Medicine

Enter medicine

Medicine ID
enter the Medicine id

Medicine Name
enter the medicine name

Company Name
enter the company name

Generic Name
enter the generic name

Medicine Type
enter the medicine type

medicine_price
enter the medicine price

Description

Image
Choose File No file chosen

Submit

Figure 4.1.24 Manager Add Medicine

The figure 4.2.25 Shows Seller Approver Shop.

Online Medicine Center

Welcome, AI

GENERAL

Home

SHOPS

Shop Management

Request Shop

Approved Shops

Approved Shops

Search:

Shop Name	Manager Name	Manager Email	Shop Address	Manager contact	Seller Name	Latitude	longitude	action
Tamanna Pharmacy	Tamanna	shop8@gmail.com	H-335, Bashundhara Road, Dhaka 1212	013872465575	AI Amin	23.7986346	90.3992538	Edit delete
Best Pharma	abul	shop7@gmail.com	Wireless Gate, Dhaka, Dhaka 1212	0193847565	AI Amin	23.7971658	90.3978739	Edit delete

Showing 1 to 2 of 2 entries

Previous Next

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Figure 4.2.25 Seller Approver Shop.

The figure 4.2.26 shows seller profile

Online Medicine Center

Welcome, Isfat Sharik

GENERAL

Home

SHOPS

Shop Management

Isfat Sharik Uchswas

Your Profile

Frist Name	Last name Name	Your Email	Your contact	Your NID	Action
Isfat Sharik	Uchswas	seller1@gmail.com	01711717171	80123979878783	Edit

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Figure 4.2.26 seller profile

The figure 4.2.27 shows user medicine checkout

Checkout

Order Details

Product Name	Quantity	Unit Price	Total
Odycin (5 ml) Shop Name: Hera Pharmacy	1	150	150
Prudox (100 ml) Shop Name: Hera Pharmacy	1	80	80
Orsoline-N Shop Name: Tamanna Pharmacy	20	3	60

Shipping Details

Order By:
User user 293874663289

Shipped To:
If the shipping is to the user, there is no need to add Shipped to and Contact below

Self @ Other

Shipped To Contact

Mirpur

Confirm

Pricing Details

Sub-Total:	290 BDT
Shipping Charge (Per Shop)	45 BDT
Total Shops:	2
Total Shipping Cost:	90 BDT
Order Total:	380 BDT

Figure 4.2.27: User medicine checkout

The figure 4.2.28 shows User Prescription Request

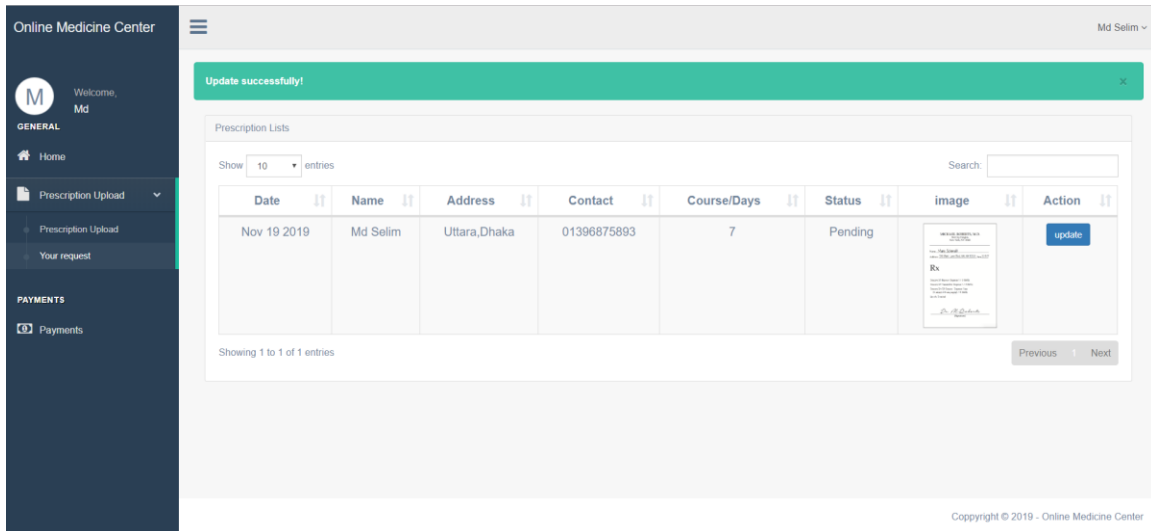


Figure 4.2.28: User Prescription Request

The figure 4.2.29 shows User Prescription Upload

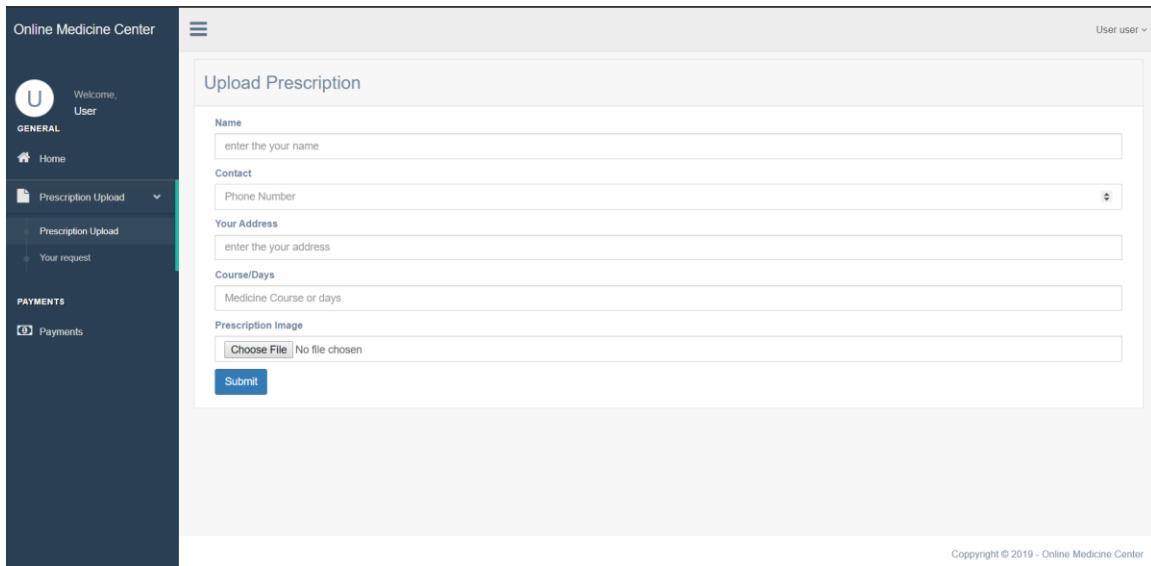


Figure 4.2.29 User Prescription Upload

The figure 4.2.30 shows User Rating

The screenshot displays the 'Online Medicine Center' user interface. On the left is a dark blue sidebar with navigation links: 'Home', 'Prescription Upload', and 'Payments'. The main content area is titled 'Order Details of Order No. 3'. It features a table with four rows of product information, including product names, quantities, unit prices, total prices, and status. To the right of the table is a 'Pricing Details' section with a summary of costs. Below the table is a 'Payment Details' section showing account information and transaction status. On the far right, there is a 'Rating & Feedback' section with a star rating and a 'Provide Feedback' button.

PRODUCT NAME	QUANTITY	UNIT PRICE	TOTAL	Status
Omastin (100 ml) Shop Name: Hera Pharmacy	1	200 BDT	200 BDT	Shipped
Napa Shop Name: Tamanna Pharmacy	35	2 BDT	70 BDT	Shipped
Beuflox-D (5 ml) Shop Name: Hera Pharmacy	1	75 BDT	75 BDT	Shipped
Odyacin (5 ml) Shop Name: Hera Pharmacy	1	150 BDT	150 BDT	Shipped

Account No.	Method	Amount Paid	Transaction ID	Status
987654566	bKash	585 BDT	346745678	Verified

Pricing Details	
Sub-Total:	495 BDT
Shipping Charge (Per Shop):	45 BDT
Total Shops:	2
Total Shipping Cost:	90 BDT
Order Total:	585 BDT

Rating & Feedback

☆☆☆☆☆

Provide Feedback

Figure 4.2.30 User Rating

The figure 4.2.31 Shows user order complete.

This screenshot is similar to the previous one but indicates the order is complete. The 'Status' column in the product table now includes five yellow stars (☆☆☆☆☆) next to the 'Shipped' status. The 'Rating & Feedback' section on the right also displays five yellow stars (☆☆☆☆☆) above a text input field and the 'Provide Feedback' button.

PRODUCT NAME	QUANTITY	UNIT PRICE	TOTAL	Status
Omastin (100 ml) Shop Name: Hera Pharmacy	1	200 BDT	200 BDT	Shipped ☆☆☆☆☆
Napa Shop Name: Tamanna Pharmacy	35	2 BDT	70 BDT	Shipped ☆☆☆☆☆
Beuflox-D (5 ml) Shop Name: Hera Pharmacy	1	75 BDT	75 BDT	Shipped ☆☆☆☆☆
Odyacin (5 ml) Shop Name: Hera Pharmacy	1	150 BDT	150 BDT	Shipped ☆☆☆☆☆

Account No.	Method	Amount Paid	Transaction ID	Status
987654566	bKash	585 BDT	346745678	Verified

Pricing Details	
Sub-Total:	495 BDT
Shipping Charge (Per Shop):	45 BDT
Total Shops:	2
Total Shipping Cost:	90 BDT
Order Total:	585 BDT

Rating & Feedback

☆☆☆☆☆

Provide Feedback

Figure 4.2.31 user order complete.

The figure 4.2.32 Shows User Payment Instruction

Online Medicine Center

Welcome, User

GENERAL

Home

Prescription Upload

PAYMENTS

Payments

Payment Instructions

Pricing Details for Order ID : 3

Sub-Total:	495 BDT
Shipping Charge (Per Shop):	45 BDT
Total Shops:	2
Total Shipping Cost:	90 BDT
Order Total:	585 BDT

Payment Details

Account No.
Please Enter Account Number

Transaction ID
Please Enter Transaction ID

Select Payment Method
bKash

Submit

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Figure 4.2.32: Shows User Payment Instruction

The figure 4.2.33 Shows User Payment Process

Online Medicine Center

Welcome, User

GENERAL

Home

Prescription Upload

PAYMENTS

Payments

Order Details of Order No. 3

PRODUCT NAME	QUANTITY	UNIT PRICE	TOTAL	Status
Omastin (100 ml) Shop Name: Hera Pharmacy	1	200 BDT	200 BDT	Not Shipped
Napa Shop Name: Tamanna Pharmacy	35	2 BDT	70 BDT	Not Shipped
Beuflox-D (5 ml) Shop Name: Hera Pharmacy	1	75 BDT	75 BDT	Not Shipped
Odylin (5 ml) Shop Name: Hera Pharmacy	1	150 BDT	150 BDT	Not Shipped

Pricing Details

Sub-Total:	495 BDT
Shipping Charge (Per Shop):	45 BDT
Total Shops:	2
Total Shipping Cost:	90 BDT
Order Total:	585 BDT

Payment Details

Account No.	Method	Amount Paid	Transaction ID	Status
987654566	bKash	585 BDT	345745678	Unverified

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Figure 4.2.33: Shows User Payment Proces

4.3 Backend Design:

4.3.1 Backend technology:

The backend of a web the based system is usually the language of server, database and software, script language used to work perfectly on the platform.

HTML and CSS3 are used in system design and JavaScript and some JavaScript and CSS 3 plugins are used for interaction design. Some plugins are bootstrap, j query, monthly, date-picker, data tables.

For the responsive view in mobile and tablet device bootstrap used mostly.

Showing the right design in right time and controlling the preview of required information and data to the right user in their own panel PHP programming language is used and data retrieved from the MySQLi database.

Here the main framework is “laravel” which is a PHP framework.

The figure Fig 4.2.1 shows the backend communication of frontend response and request.

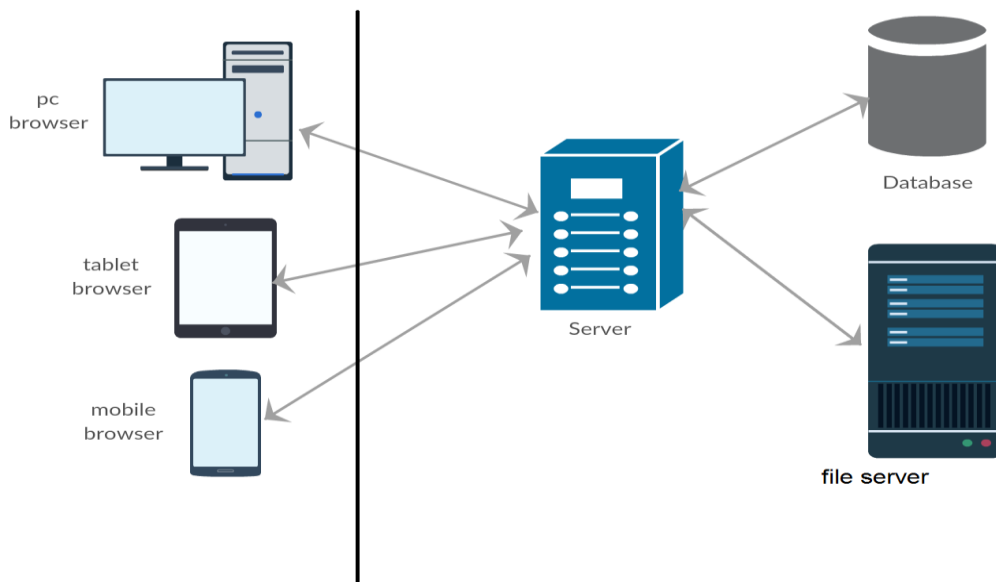


Figure 4.2.1 Backend connection with front end

4.3.2 Backend process & front-end:

Frontend design has a close connection with the backend. Front end hides the complexity of process to the users and clients. Front end realizes clients and user that they are using easy and nice system.

A single front end activity may contain many backend process and complex operation.

The figure 4.2.2.1, 4.2.2.2 and 4.2.2.3 shows the sequence diagram between web browsers, web server and database whenever insert, update and view/select operation are done from front end of the system.

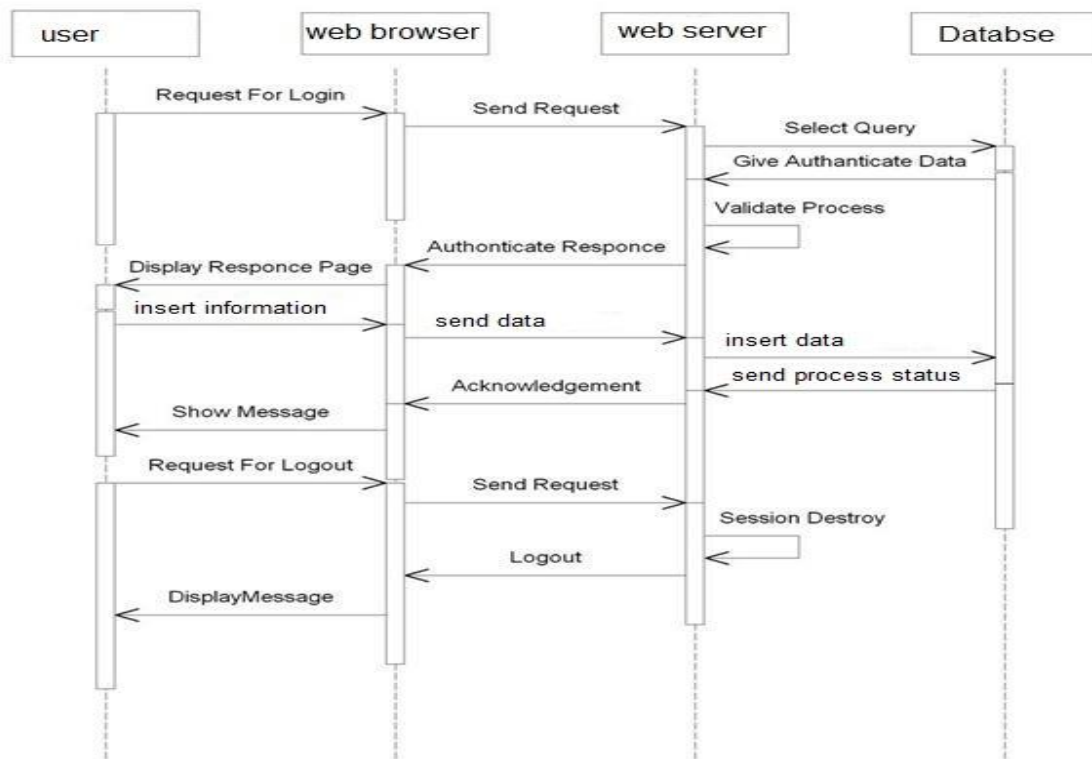


Fig 4.3.2.1 backend process on front end activity (insert)

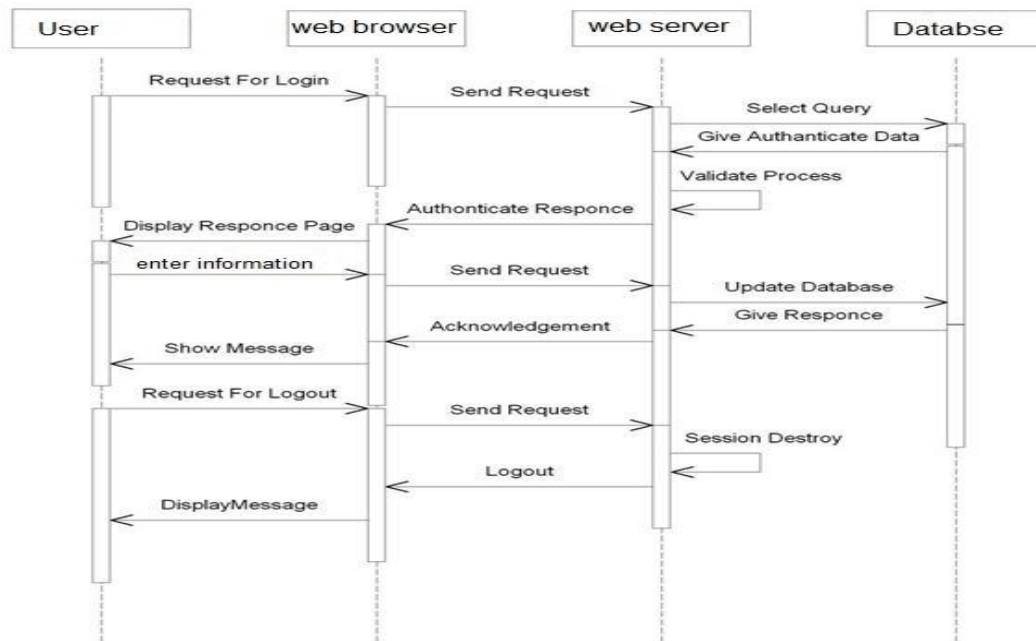


Figure 4.3.2.2: Backend process on front end activity (update)

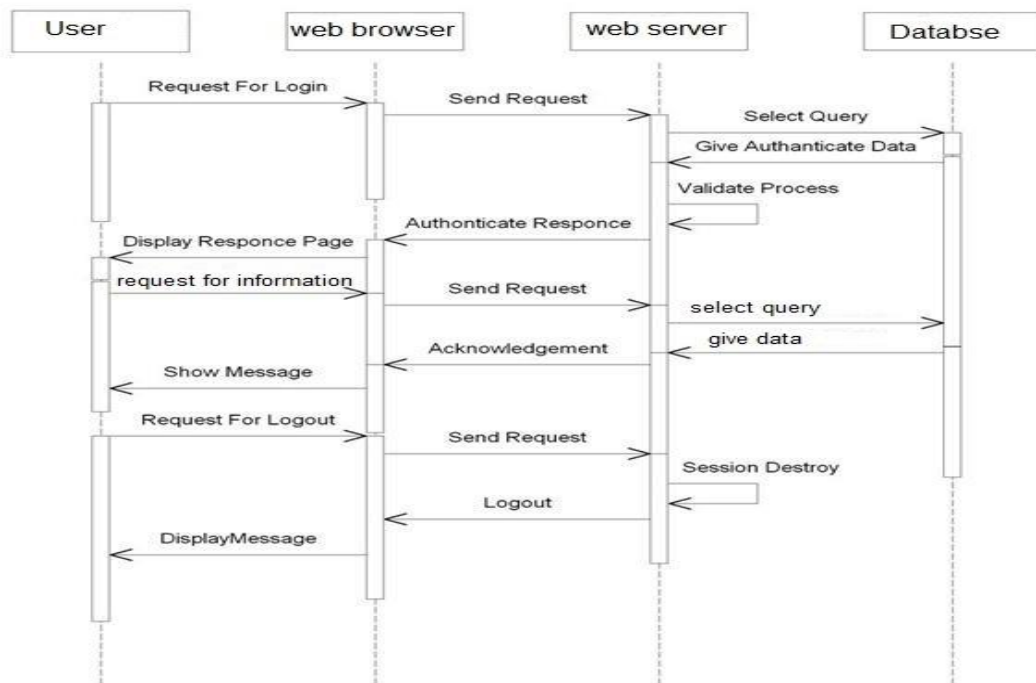


Figure 4.3.2.3: Backend process on front end activity (view)

CHAPTER 5

Implementation and Testing

5.1 Implementation of Database:

The system's server used is MySQL. The database query is designed by the "Laravel" application query builder group.

TABLE 5.1.1: Information of Admin table

Table Name		Admin				
Table Description		This table stores information about Admin.				
Field Name	Data Type	Size	Not Null	P K	F K	Description
Id	bigint	20	√	√		Stores unique id(Auto increment)
f_name	VARCHAR	191	√			f_name of received
l_name	VARCHAR	191	√			l_name of received
email	VARCHAR	191	√			email of received
contact	VARCHAR	191				Contact of received
password	VARCHAR	191	√			Received login password

TABLE 5.1.2: Information of Shops table

Table Name		Shops				
Table Description		This table stores information about shops.				
Field Name	Data Type	Size	Not Null	PK	FK	Description
id	bigint	20	√	√		Stores unique id(Auto increment)
shop_name	VARCHAR	191	√			Receive Shop_name
m_name	VARCHAR	191	√			Receive manager name
m_email	VARCHAR	191	√			Received manager Email
s_address	VARCHAR	191	√			Received shop address
s_contact	VARCHAR	191	√			Received shop contact
latitude	VARCHAR	191				Received latitude
longitude	VARCHAR	191				Received longitude
seller_id	bigint	20	√		√	Received seller_id

TABLE 5.1.3: Information of Payment table

Table Name		Payment				
Table Description		This table stores information about shops.				
Field Name	Data Type	Size	Not Null	PK	FK	Description
Id	bigint	20	√	√		Stores unique id(unsinged)
order_id	bigint	20	√		√	Stores unique id(unsinged)
account_no	VARCHAR	191	√			Received account_no
trx_id	VARCHAR	191	√			Received trx_id
amount	VARCHAR	191	√			Received amount
method	VARCHAR	191	√			Received method
status	VARCHAR	191				Received status

TABLE 5.1.4: Information of users table

Table Name		Users				
Table Description		This table stores information about users.				
Field Name	Data Type	Size	Not Null	PK	FK	Description
Id	BIG(INT)	20	√	√		Stores unique id (Auto increment)
email	VARCHAR	191	√		√	Received valid email
F_name	VARCHAR	191	√			Received first name
L_name	BIG(INT)	191	√			Received last name
contact	VARCHAR	191				Received contact
password	VARCHAR	191	√			Received valid password
address	VARCHAR	191	√			Received address

TABLE 5.1.5: Information of orders table

Table Name		orders				
Table Description		This table stores information about orders.				
Field Name	Data Type	Size	Not Null	P K	F K	Description
Id	BIG(INT)	20	√	√		Stores unique id (Auto increment)
user_id	BIG(INT)	20	√		√	Received valid User_id
total	int	11	√			Received total
status	VARCHAR	191	√			Received status

TABLE 5.1.6: Information of sellers table

Table Name		sellers				
Table Description		This table stores information about sellers.				
Field Name	Data Type	Size	Not Null	PK	FK	Description
Id	BIG(INT)	20	√	√		Stores unique id (Auto increment)
email	VARCHAR	191	√		√	Received valid email
F_name	VARCHAR	191	√			Received first name
L_name	BIG(INT)	191	√			Received last name
contact	VARCHAR	191				Received contact
password	VARCHAR	191	√			Received valid password
tin	VARCHAR	191	√			Received tin
nid	VARCHAR	191	√			Received valid nid

TABLE 5.1.7: Information of medicine table

Table Name		medicine				
Table Description		This table stores information about medicines.				
Field Name	Data Type	Size	Not Null	P K	F K	Description
Id	BIG(INT)	20	√	√		Stores unique id(Auto increment)
medicine_id	VARCHAR	191	√			Received medicine_id
medicine_type	VARCHAR	191	√			Received medicine_type
medicine_name	VARCHAR	191	√			Received medicine_name
medicine_price	DOUBLE	8,2	√			Received medicine_price
Company_name	VARCHAR	191	√			Received valid company_name
generic_name	VARCHAR	191	√			Received valid generic_name
description	TEXT	191	√			Received description
image	VARCHAR	191	√			Received image
shop_id	BIG(INT)	20	√		√	Received valid shop_id

5.2 Implementation access of Modules:

The figure 5.2.1 shows the admin's access of modules

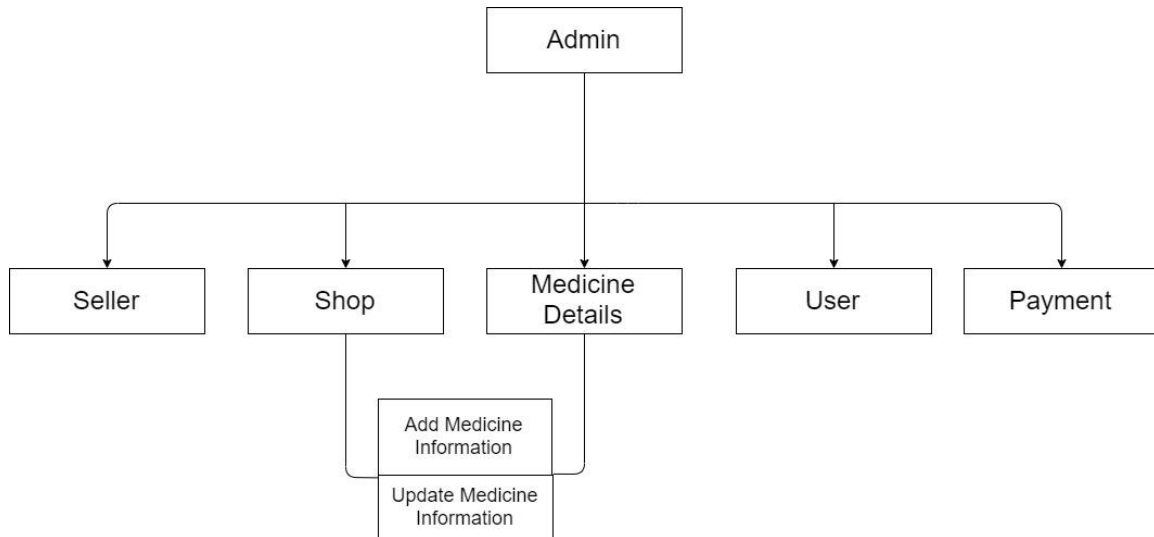


Figure:5.2.1 Admin module

The figure 5.2.2 shows the seller's access of modules

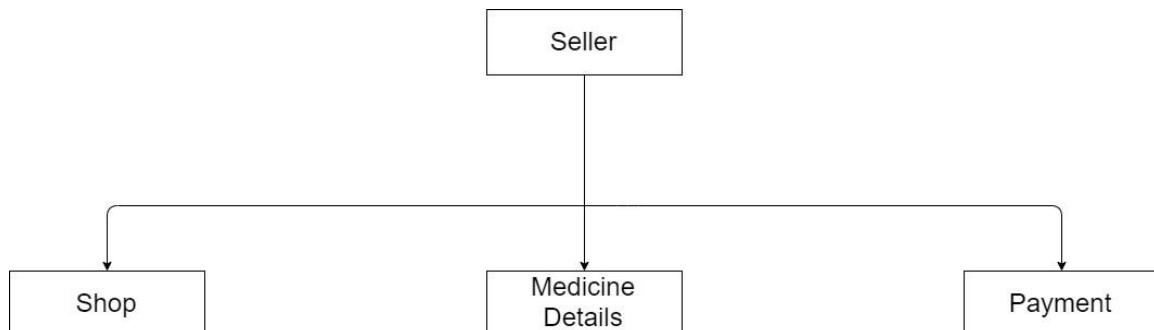


Figure:5.2.2 Seller module

The figure 5.2.3 shows the user's access of modules

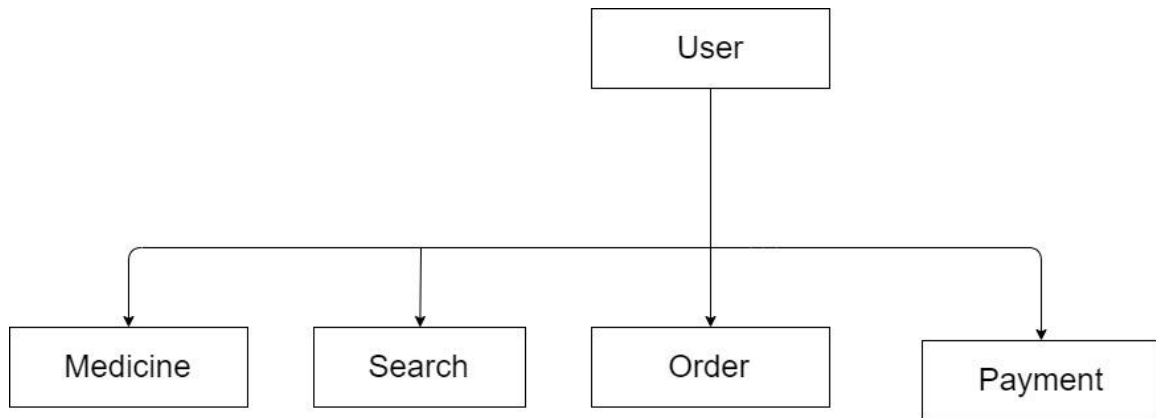


Figure:5.2.3 User module

The figure 5.2.4 shows the shop's access of modules

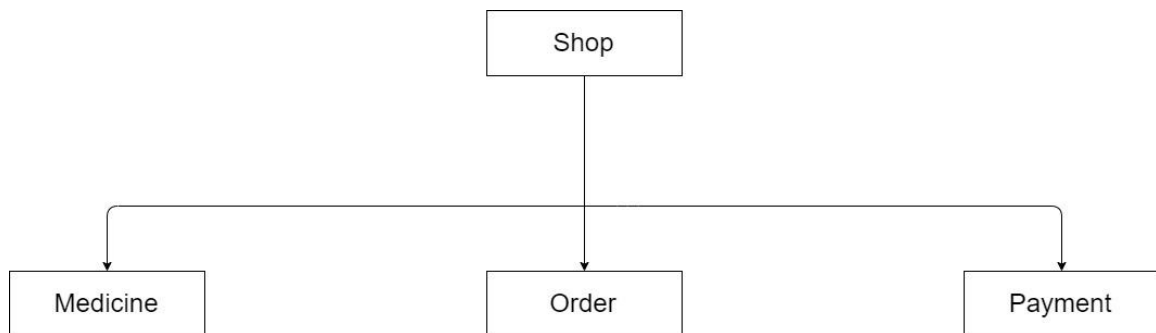


Figure:5.2.4 Shop module

5.3 Test case:

TABLE 5.3.1: Test case of Login Page

Sr No	Input/Action	Expected Result	Actual Result	Remark
1	Leave the empty field.	Shows error message “Email and password field is needed”	Error message "Email and password fields are needed"	Pass
2	Entered invalid password	Shows error message "right email or password"	Error message “email or password is wrong”	Pass
3	Entered invalid email format	Will show error message “ Please submit a valid email ”	Error message “ Please submit a valid email ”	pass
4	Entered Invalid email id.	Will show error message “email or password is wrong”	Error message “email or password is wrong”	Pass
5	Entered Valid user name.	Will accept the data.	Data accepted	Pass

TABLE 5.3.2: Test case for Payment

S/n	Input/Action	Expected Result	Actual Result	Remark
1	Any field entered empty value	Show error message "Can't be empty field"	Error message “Can't be empty field”	Pass
2	entered in user_id field	Will show error message” login successfully”	Error message” login successfully”	Pass
3	Entered valid information	Will show“ Successful ” and show invoice button	show“ Successful ” and showed invoice button	Pass

TABLE 5.3.3: Test case for order

S/n	Input/Action	Expected Result	Actual Result	Remark
1	Any field entered empty value	Show error message "Can't be empty field"	Error message “Can't be empty field”	Pass
2	String entered in total field	Will show error message” total cannot be string”	Error message” total cannot be string”	Pass
3	Entered invalid medicine	Show error message “invalid medicine name ”	error message “invalid medicine name”	pass
4	Entered Submit	Will show“ order Successfully”	show“ order Successfully ”	Pass

CHAPTER 6

Conclusion and Future Works

6.1 Conclusion:

The project will very helpful for people & the pharmacy owners. They will get our services very easily. People can view the pharmacy location, Price of the Medicine & the can buy rear medicine by one click. So we can say it will be very helpful for everyone.

6.2 Limitations:

We cannot sell all types of medicine without prescriptions. Sometimes we may not able to deliver the product in time to our users for traffic jam or natural disaster.

6.3 Scope for Further Developments:

There are the plans for the next version of the system that will make the system attractive and acceptable to the users and some important features that could not be implemented this time.

I. Mobile Apps: We will launch Mobile Apps to buy medicine and include all service in our apps.

II. Online Doctor & Health Tips: We will provide online doctor consultation service and online health tips.

III. Promote Various Medicine Company by placing add: We will promote medicine company by our application in future

IV. Own Delivery Service: In future we will provide our own delivery service.

V. Own Store: We build our own outlet all over the country in future.

VI. Online Blood Support: We will provide blood support to the users.

In the future, we will try to include all the medical-related services in our application.

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