



Green University of Bangladesh

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MediSearch

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<u>Lab Project Status</u>	
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Contents

1	Introduction	3
1.1	Overview	3
1.2	Motivation	3
1.3	Problem Definition	3
1.3.1	Problem Statement	3
1.3.2	Complex Engineering Problem	4
1.4	Design Goals/Objectives	4
1.5	Application	4
1.5.1	Improved Accessibility	4
1.5.2	Convenience and Time-Saving	5
1.5.3	Expanded Product Range	5
1.5.4	Medication Management Tools	5
1.5.5	Professional Consultations	5
1.5.6	Enhanced Privacy and Confidentiality	5
1.5.7	Price Transparency and Cost Savings	6
1.5.8	Data Analytics and Public Health Initiatives	6
2	Design/Development/Implementation of the Project	7
2.1	Introduction	7
2.2	Project Details	7
2.2.1	Pharmacy Owner	7
2.2.2	User	7
2.3	Implementation	8
2.3.1	The workflow	8
2.3.2	Tools and libraries	9
2.3.3	Implementation details (with screenshots and programming codes)	9
2.4	Algorithms	13

3 Performance Evaluation	15
3.1 Simulation Environment/ Simulation Procedure	15
3.2 Results Analysis/Testing	16
4 Conclusion	21
4.1 Discussion	21
4.2 Limitations	21
4.3 Scope of Future Work	22

Chapter 1

Introduction

1.1 Overview

The MediSearch project is a cutting-edge initiative designed to streamline and enhance the process of searching and accessing medication-related information. It serves as a comprehensive platform specifically tailored for pharmacists, healthcare providers, and individuals seeking accurate and up-to-date details about various medicines.

1.2 Motivation

Many people face challenges in obtaining the medications they need due to various factors such as geographical limitations, physical disabilities, or time constraints. The advent of technology and the growing prevalence of e-commerce present an opportunity to address these barriers and revolutionize the way medications are obtained.

The motivation behind this project lies in the recognition of the existing gaps and limitations in traditional brick-and-mortar pharmacies. Physical pharmacies are often bound by geographical boundaries, making it difficult for individuals in remote areas or with limited mobility to access essential medications promptly. Moreover, individuals with chronic illnesses or disabilities may face challenges in visiting physical pharmacies regularly, leading to potential disruptions in their treatment plans.

1.3 Problem Definition

1.3.1 Problem Statement

- Inefficient Medication Retrieval
- Limited Availability of Medication Information
- Lack of Convenience and Accessibility
- Manual Payment Processes

1.3.2 Complex Engineering Problem

The following Table 1.1 must be completed according to your above discussion in detail. The column on the right side should be filled only on the attributes you have chosen to be touched by your own project.

Table 1.1: Summary of the attributes touched by the mentioned projects

Name of the P Attributes	Explain how to address
P1: Depth of knowledge required	We had to know from simple to complex so many different concepts to implement this project.
P2: Range of conflicting requirements	There is no conflicting requirements remained in our project.
P3: Depth of analysis required	Not too much.
P4: Familiarity of issues	We have mentioned common issues.
P5: Extent of applicable codes	We have used basic code.
P6: Extent of stakeholder involvement and conflicting requirements	Now we are two members in this project and we do not have any plan to extend our stackeholder.
P7: Interdependence	Yes. Database is required to run the project.

1.4 Design Goals/Objectives

- User Login and Registration
- Get the List of Medicine
- Get the Details of Medicine
- Update Medicine List
- Order Medicine Online
- View Order Details
- Update Account Details

1.5 Application

The application of an online pharmacy in the real world can have several tangible benefits and impact various aspects of healthcare delivery. Here are some examples:

1.5.1 Improved Accessibility

An online pharmacy provides individuals with greater accessibility to medications, regardless of their geographical location or physical limitations. Patients in remote areas

or those with limited mobility can conveniently access a wide range of medications and healthcare products from the comfort of their homes. This accessibility is particularly crucial for individuals with chronic conditions who require regular medication refills.

1.5.2 Convenience and Time-Saving

With an online pharmacy, individuals can avoid the need to travel to physical pharmacies, wait in long queues, or adhere to specific operating hours. The online platform allows for 24/7 access, enabling patients to place medication orders and receive doorstep deliveries at their convenience. This time-saving aspect is especially beneficial for busy individuals and those with demanding work schedules.

1.5.3 Expanded Product Range

Online pharmacies can offer a broader selection of medications and healthcare products compared to traditional pharmacies with limited shelf space. Patients have access to a diverse range of prescription drugs, over-the-counter medications, vitamins, supplements, personal care items, and medical equipment, catering to a wide range of healthcare needs.

1.5.4 Medication Management Tools

Online pharmacies can integrate medication management tools into their platforms. These tools may include features such as medication reminders, dosage tracking, and refill notifications. By incorporating such functionalities, individuals can improve their medication adherence, ensuring they take their medications as prescribed and avoid missed doses or potential treatment disruptions.

1.5.5 Professional Consultations

Some online pharmacies provide options for online consultations with licensed pharmacists or healthcare professionals. This feature allows individuals to seek guidance, clarify medication-related queries, and obtain professional advice without the need for in-person visits. Such consultations can enhance patient education, medication safety, and overall healthcare decision-making.

1.5.6 Enhanced Privacy and Confidentiality

Online pharmacies prioritize patient privacy and employ secure platforms to protect personal and medical information. Patients can discreetly and securely order medications without concerns about potential stigmatization or privacy breaches.

1.5.7 Price Transparency and Cost Savings

Online pharmacies often provide detailed information about medication prices, including generic alternatives and potential discounts. This transparency allows patients to compare prices and make informed decisions, potentially resulting in cost savings. Additionally, online pharmacies may offer competitive pricing due to reduced overhead costs compared to physical pharmacies.

1.5.8 Data Analytics and Public Health Initiatives

By harnessing the power of data analytics, online pharmacies can collect and analyze medication usage patterns and trends. This data can contribute to public health initiatives, such as identifying emerging health concerns, monitoring medication adherence rates, and implementing targeted interventions to improve health outcomes at a population level.

In summary, the application of an online pharmacy in the real world brings about enhanced accessibility, convenience, expanded product range, medication management tools, professional consultations, privacy protection, cost savings, and opportunities for data-driven public health initiatives. These benefits collectively contribute to improved patient experiences, medication adherence, and overall healthcare outcomes.

Chapter 2

Design/Development/Implementation of the Project

2.1 Introduction

The MediSearch project is a cutting-edge initiative designed to streamline and enhance the process of searching and accessing medication-related information. It serves as a comprehensive platform specifically tailored for pharmacists, healthcare providers, and individuals seeking accurate and up-to-date details about various medicines.

2.2 Project Details

In this project, we have designed features both for pharmacist and user.

2.2.1 Pharmacy Owner

- Login to the system
- Enter the details about medicine
- Add/ Remove medicine types
- Update about the availability.

2.2.2 User

- Login and Registration to the system.
- Get a list of medicines with the required details.
- Place Order Online.
- View Order Details.

2.3 Implementation

2.3.1 The workflow

Here's a workflow for the implementation of our project:

1. Research and Analysis:

- a. Conduct a comprehensive analysis of the existing online pharmacy landscape, including successful platforms and their features, target markets, and emerging trends.
- b. Identify the legal and regulatory requirements for operating an online pharmacy, such as licensing, prescription fulfillment, privacy, and security regulations.
- c. Analyze market demand and customer preferences to identify potential target demographics and competitive advantages.

2. Requirements Gathering:

- a. Define the specific features and functionalities of your online pharmacy platform, considering user requirements, legal obligations, and market research.
- b. Determine the technology stack required for the development and operation of the online pharmacy, such as e-commerce platforms, database systems, and security protocols.

3. Platform Development:

- a. Design the user interface (UI) and user experience (UX) of the online pharmacy platform, ensuring a user-friendly and intuitive interface.
- b. Develop the front-end and back-end components of the platform, including database integration, medication catalog management, user authentication, and payment processing.
- c. Implement secure communication channels, encryption protocols, and data protection mechanisms to ensure the confidentiality and integrity of user information.

4. Medication Management:

- a. Establish partnerships with pharmaceutical suppliers, wholesalers, and manufacturers to ensure a reliable supply chain of medications.
- b. Implement inventory management systems to track stock levels, expiration dates, and medication availability.
- c. Develop mechanisms for accurate prescription verification, including the integration of electronic prescribing systems and secure communication channels with healthcare providers.

5. Security and Privacy:

- a. Implement robust security measures, including secure socket layers (SSL), firewalls, intrusion detection systems, and data encryption, to safeguard sensitive user information and prevent unauthorized access.
- b. Develop privacy policies and consent mechanisms that comply with applicable regulations and ensure transparent handling of user data.

6. Quality Assurance and Testing:

- a. Conduct comprehensive testing of the online pharmacy platform to identify and resolve any functional or usability issues.
- b. Perform rigorous security testing, vulnerability assessments, and penetration testing to ensure the platform's resilience against cyber threats.

c. Continuously monitor and maintain the platform to address any performance issues, software updates, or emerging security vulnerabilities.

7. Marketing and Promotion:

a. Develop marketing strategies to raise awareness of the online pharmacy platform, including digital marketing campaigns, search engine optimization (SEO), and social media presence.

b. Collaborate with healthcare professionals and organizations to establish credibility and build trust among potential users.

c. Implement customer support channels and mechanisms to address inquiries, provide assistance, and ensure customer satisfaction.

8. Continuous Improvement:

a. Monitor user feedback, engagement metrics, and performance analytics to identify areas for improvement and optimize the online pharmacy platform.

b. Stay updated with the evolving legal and regulatory landscape to ensure ongoing compliance and adapt to any changes.

c. Continuously explore innovative features and technologies to enhance the user experience, expand service offerings, and differentiate from competitors.

2.3.2 Tools and libraries

- XAMPP v3.3.0
- PHP
- MySQL Database
- HTML
- CSS
- JavaScript

2.3.3 Implementation details (with screenshots and programming codes)

```
<div class="card">
  <div class="card-header">Register</div>
  <div class="card-body">
    <form action="#signup" autocomplete="off" name="form" onsubmit="return validate()" method="post">
      <div class="form-group">
        <label for="user_name">Name</label>
        <input id="user_name" type="text" class="form-control" name="name" placeholder="Enter your name" required>
      </div>
      <div class="form-group">
        <label for="email">E-Mail Address</label>
        <input id="email" type="text" class="form-control" name="email" placeholder="Enter your email" required>
      </div>
      <div class="form-group">
        <label for="password">Password</label>
        <input id="password" type="password" class="form-control" name="password" placeholder="Enter password" required>
      </div>
      <div class="form-group">
        <label for="phone">Phone Number</label>
        <input id="phone" type="number" class="form-control" name="phone" placeholder="Enter phone number">
      </div>
      <button type="submit" id="sendlogin" class="btn btn-primary">Sign up</button>
      <a href="index.jsp" class="btn btn-link">
        | Already a member? Sign in.
      </a>
    </form>
  </div>
</div>
```

Figure 2.1: Signup Page Code

```
<div>
  <div className="login">
    <form className="login_form" >
      <h1>Login In <img alt="Logo" style="vertical-align: middle;"></h1>
      <input
        type="text" placeholder='Id No'
        onChange={(e)=>setIdNo(e.target.value)}></input>

      <input
        type="password" placeholder='Password'
        onChange={(e)=>setPassword(e.target.value)}></input>

      <button type='submit' className='submit_btn' onClick={(e)=>handleSubmit(e)}>Login</button>
    </form>
  </div>
</div>
```

Figure 2.2: Login Page Code

```
        password:password,
    }));
    */
    dispatch(login({
        idNo:user1.idNo,
        password:user1.password,
        isloggedin:false,
    }));
}

console.log(user1);
const payload=data.find(item=>item.idNo==idNo && item.password ===password)
if(payload)[
    dispatch(login({
        idNo:idNo,
        password:password,
        isloggedin:true,
    }));
    UserLogin({idNo,password,isloggedin},dispatch);

}
else{
    alert('Incorrect ID or Password')
}
```

Figure 2.3: Login Page Code

phpMyAdmin

Server: localhost » Database: omos_db » Table: users "2"

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Showing rows 0 - 4 (5 total, Query took 0.00005 seconds.)

SELECT * FROM `users`

Profiling [Edit inline] [Explain SQL] [Create PHP code] [Refresh]

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	Edit	Copy	Delete	id	firstname	middlename	lastname	username	password	avatar	last_login	type	date_created	
<input type="checkbox"/>	Edit	Copy	Delete	1	Didar		Bhuilyan	admin	0192023a7bbd73250516f069d18b500 v=1649834664	uploads/avatars/1.png?	NULL	NULL	1	2023-04-16 10:45:00
<input type="checkbox"/>	Edit	Copy	Delete	2	Didar		Bhuilyan	didar	121	NULL	NULL	0	2023-04-16 10:45:00	
<input type="checkbox"/>	Edit	Copy	Delete	3	Kayes		Ahmed	kayes	1231	NULL	NULL	0	2023-04-16 10:45:00	
<input type="checkbox"/>	Edit	Copy	Delete	4	Jahid		Tonmoy	jahid	123455	NULL	NULL	0	2023-04-16 10:45:00	
<input type="checkbox"/>	Edit	Copy	Delete	8	Arfan		Ahmed	arfan	arfan	NULL	NULL	0	2023-04-16 10:45:00	

Check all With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Query results operations

Figure 2.4: Database 1

Showing rows 0 - 3 (4 total, Query took 0.0001 seconds.)

```
SELECT * FROM `customer_list`
```

	Edit	Copy	Delete	T	id	firstname	middlename	lastname	gender	contact	email	password	avatar	date
<input type="checkbox"/>	Edit	Copy	Delete	T	1	Didar		Bhuiyan	Male	01641267847	didar@gmail.com	c7162ff89c647444fcaa5c635dac8c3		2023
<input type="checkbox"/>	Edit	Copy	Delete	T	3	Mahidzaman		Utsha	male	019456987123	arfan@gmail.com	b60367cae35de6594b1a09f144a3a68b		2023
<input type="checkbox"/>	Edit	Copy	Delete	T	4	Arfan		Ahmed	Male	01641267847	arfan12@gmail.com	81dc9bdb52d04dc20036dbd8313ed055	NULL	2023
<input type="checkbox"/>	Edit	Copy	Delete	T	5	Didar		Bhuiyan	Male	01641267847	didar12@gmail.com	827ccb0ea8a706c4c34a16891184e7b		2023

Figure 2.5: Database 2

Showing rows 0 - 2 (3 total, Query took 0.0001 seconds.)

```
SELECT * FROM `order_list`
```

	Edit	Copy	Delete	T	id	code	customer_id	delivery_address	total_amount	status	date_created	date_updated
<input type="checkbox"/>	Edit	Copy	Delete	T	1	2022165468	1	Shewrapara	203.00	3	2023-05-25 16:36:09	2023-06-14 13:23:00
<input type="checkbox"/>	Edit	Copy	Delete	T	3	2022052600001	1	Puran Dhaka	50.00	0	2023-05-26 09:22:37	2023-06-14 13:24:46
<input type="checkbox"/>	Edit	Copy	Delete	T	4	2022052600002	3	Mirpur	105.00	3	2023-05-26 10:56:25	2023-05-26 11:03:01

Figure 2.6: Database 3

Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> cart_list	Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_general_ci	48.0 Kib	-
<input type="checkbox"/> category_list	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	16.0 Kib	-
<input type="checkbox"/> customer_list	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	16.0 Kib	-
<input type="checkbox"/> order_items	Browse Structure Search Insert Empty Drop	6	InnoDB	utf8mb4_general_ci	48.0 Kib	-
<input type="checkbox"/> order_list	Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_general_ci	32.0 Kib	-
<input type="checkbox"/> product_list	Browse Structure Search Insert Empty Drop	5	InnoDB	utf8mb4_general_ci	32.0 Kib	-
<input type="checkbox"/> stock_list	Browse Structure Search Insert Empty Drop	8	InnoDB	utf8mb4_general_ci	32.0 Kib	-
<input type="checkbox"/> stock_out	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	48.0 Kib	-
<input type="checkbox"/> system_info	Browse Structure Search Insert Empty Drop	9	InnoDB	utf8mb4_general_ci	16.0 Kib	-
<input type="checkbox"/> users	Browse Structure Search Insert Empty Drop	5	InnoDB	utf8mb4_general_ci	16.0 Kib	-
10 tables	Sum	45	InnoDB	utf8mb4_general_ci	304.0 Kib	0 B

Figure 2.7: Database 4

2.4 Algorithms

Here's an algorithm for implementing MediSearch:

1. User Registration and Authentication:

- Prompt the user to create an account or log in using their credentials.
- Verify user authentication and authorization for accessing the platform's features.

2. Medication Catalog Management:

- Maintain a database of medications, including information such as name, dosage, indications, and pricing.
- Enable search and filtering functionalities for users to find specific medications based on various criteria.
- Update the medication catalog regularly to ensure accuracy and availability information.

3. Prescription Verification:

- Implement a secure mechanism for healthcare providers to electronically transmit prescriptions to the online pharmacy.
- Verify the authenticity and validity of prescriptions, checking for any potential drug interactions or contraindications.
- Ensure secure communication channels with healthcare providers for prescription clarification or additional information.

4. Medication Ordering and Fulfillment:

- Allow users to add medications to their shopping cart or wish list.
- Facilitate secure payment processing for medication orders, integrating with payment gateways to handle financial transactions.
- Manage inventory levels and track medication availability to prevent out-of-stock situations.
- Coordinate with shipping and logistics providers for safe and timely delivery of medications to the user's specified address.

5. User Communication and Support:

- Provide a user-friendly interface for users to communicate with pharmacists or customer support representatives.
- Enable live chat, messaging, or email functionality to address inquiries, provide medication-related information, and offer support.

6. Security and Privacy Measures:

- Implement secure protocols and encryption mechanisms to protect user data, including personal and medical information.
- Employ secure communication channels, such as SSL, for data transmission between the user and the online pharmacy platform.
- Comply with data privacy regulations, establish privacy policies, and obtain user consent for data handling and processing.

7. Continuous Monitoring and Maintenance:

- Regularly monitor the platform's performance, including speed, uptime, and user experience.
- Conduct routine security assessments and vulnerability scans to identify and address any potential risks or vulnerabilities.

- Keep the platform up to date with the latest software patches, updates, and security measures.

Chapter 3

Performance Evaluation

3.1 Simulation Environment/ Simulation Procedure

To discuss the experimental setup and environment installation for simulating the outcomes of a MediSearch project, we need to consider the software, hardware, and data requirements. Here's an overview of the key aspects:

1. Software Requirements:

- Operating System: Determine the compatible operating system for the online pharmacy platform, such as Windows, Linux, or macOS.
- Web Server: Install a web server software, such as Apache or Nginx, to host the online pharmacy application.
- Programming Language: Choose a programming language suited for web development, such as Python, PHP, or Java, based on your project requirements and expertise.
- Frameworks and Libraries: Utilize relevant frameworks and libraries for web development, such as Django, Ruby on Rails, or Laravel, to expedite the development process.
- Database: Set up a database management system like MySQL, PostgreSQL, or MongoDB to store and retrieve data related to medications, user profiles, and orders.
- Security Measures: Implement security measures such as SSL certificates, encryption protocols, and firewall configurations to ensure secure data transmission and protection against cyber threats.
- Additional Tools: Depending on the specific features and functionalities of your online pharmacy, you may need additional tools such as payment gateway integrations, API frameworks for prescription verification, and communication platforms for user support.

2. Hardware Requirements:

- Server Infrastructure: Determine the hardware specifications for hosting the online pharmacy platform. This includes the server's processing power, memory, storage capacity, and network connectivity, depending on the expected user load and scalability requirements.
- Client Devices: Consider the hardware requirements for the client devices that users will use to access the online pharmacy, such as desktop computers, laptops, tablets, or mobile devices. Ensure compatibility with various operating systems and web browsers.

The image shows a registration form titled 'Register'. It contains four input fields: 'Name' (placeholder: 'Enter your name'), 'E-Mail Address' (placeholder: 'Enter your email'), 'Password' (placeholder: 'Enter password'), and 'Phone Number' (placeholder: 'Enter phone number'). Below the fields are two buttons: a blue 'Sign up' button and a link 'Already a member? Sign in.'

Figure 3.1: Signup Page

3. Data Requirements:

- Medication Data: Collect and curate a comprehensive dataset of medication information, including names, dosages, indications, contraindications, pricing, and stock availability. This dataset will be used to populate the medication catalog of the online pharmacy platform.
- User Data: Determine the data required to create and manage user profiles, including personal information, login credentials, prescription history, and preferences. Ensure compliance with data privacy regulations and establish protocols for secure storage and access.

4. Simulation and Testing Environment:

- Set up a test environment to simulate user interactions and behavior within the online pharmacy platform. This can involve creating test user accounts, generating synthetic data for testing purposes, and simulating various scenarios to evaluate the system's performance and functionality.
- Implement testing frameworks and methodologies to conduct unit testing, integration testing, and system testing to identify and resolve bugs, ensure proper functionality, and validate the system's responsiveness and user experience.

3.2 Results Analysis/Testing

Log in

E-Mail Address

Password

[Create account](#)

Figure 3.2: Login Page

Online Medicine Ordering System - Admin

Didar Bhuiyan

First Name

Middle Name

Last Name

Username

Password

Leave this blank if you don't want to change the password.

Avatar



Figure 3.3: Admin Login

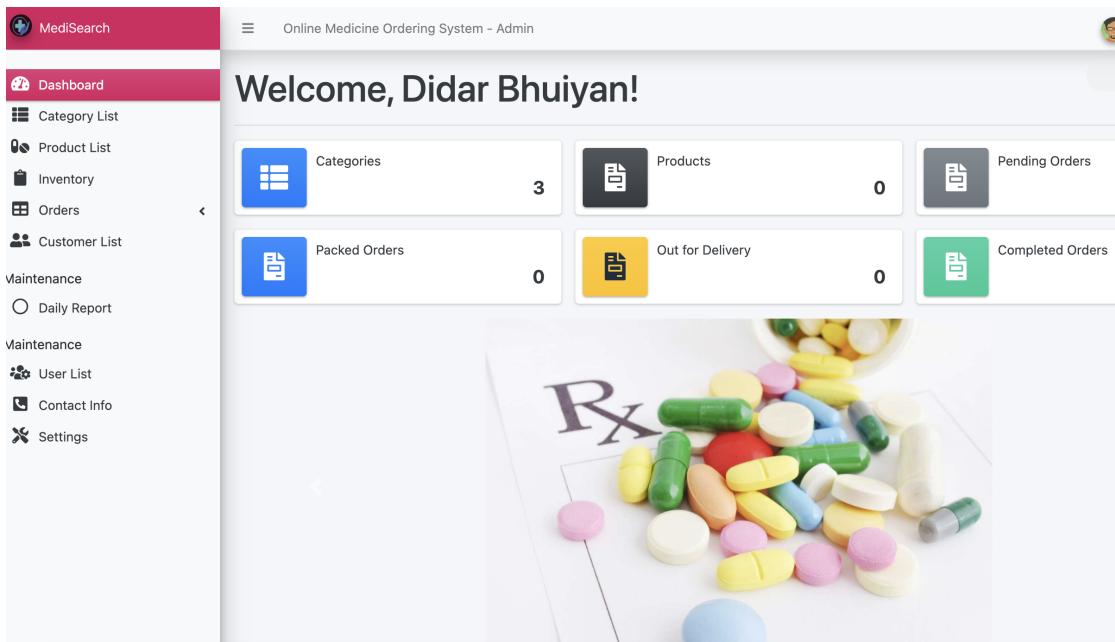


Figure 3.4: Admin DashBoard

The screenshot shows the "List of Users" page. The left sidebar includes the "User List" item under the "Maintenance" section. The main content area has a table titled "List of Users" with the following columns: #, Date Updated, Avatar, Name, Username, Type, and Ac. The table contains four entries:

#	Date Updated	Avatar	Name	Username	Type	Ac
1	2023-06-14 13:16		Arfan Ahmed	arfan	N/A	
2	2023-06-14 19:17		Didar Bhuiyan	didar	N/A	
3	2023-06-14 19:17		Jahid Tonmoy	jahid	N/A	
4	2023-06-14 19:17		Kayes Ahmed	kayes	N/A	

Showing 1 to 4 of 4 entries

Figure 3.5: User List

#	Date Created	Image	Brand	Name	Price	Status	Action
1	2023-05-25 11:10		Brand 101	Amoxicillin 250	7.00	Active	Action ▾
2	2023-05-25 11:06		Brand 101	Mefenamic 500mg	10.00	Active	Action ▾
3	2023-05-25 11:11		Brand 102	Drug 101 25mg	25.00	Active	Action ▾
4	2023-05-25 14:18		Brand 103	Drug 102 50mg	20.00	Active	Action ▾
5	2023-05-26 10:59		Brand 103	Medicine #101 280ml	375.00	Active	Action ▾

Showing 1 to 5 of 5 entries

Previous 1 Next

Figure 3.6: Product List

Online Medicine Ordering System

Registration

First Name	Email
<input type="text"/>	<input type="text"/>
Middle Name	Contact
<input type="text"/>	<input type="text"/>
Last Name	Password
<input type="text"/>	<input type="password"/>
Gender	Confirm Password
Male	<input type="password"/>
Avatar	
<input type="button" value="Choose file"/>	<input type="button" value="Browse"/>
Already have an Account	
Create Account	

Figure 3.7: User Registration

#	Date Created	Image	Brand	Name	Price	Status	Action
1	2023-05-25 11:10		Brand 101	Amoxicillin 250	7.00	Active	Action ▾
2	2023-05-25 11:06		Brand 101	Mefenamic 500mg	10.00	Active	Action ▾
3	2023-05-25 11:11		Brand 102	Drug 101 25mg	25.00	Active	Action ▾
4	2023-05-25 14:18		Brand 103	Drug 102 50mg	20.00	Active	Action ▾
5	2023-05-26 10:59		Brand 103	Medicine #101 280ml	375.00	Active	Action ▾

Showing 1 to 5 of 5 entries

Previous 1 Next

Figure 3.8: Product List

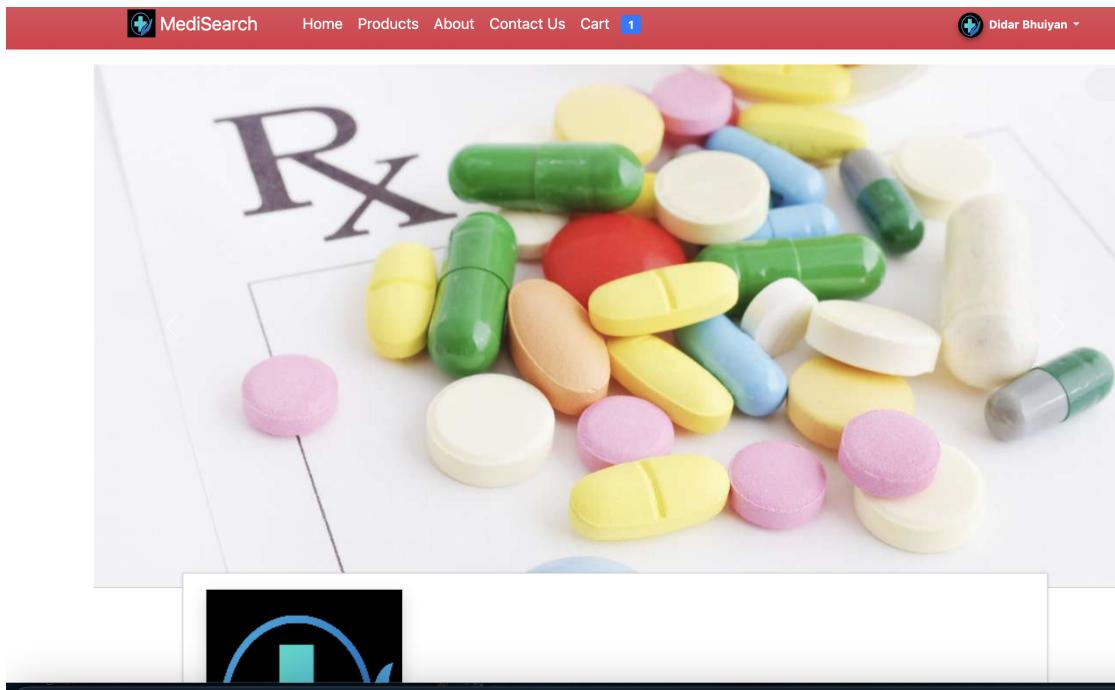


Figure 3.9: User Dashboard



Product Details



Brand	Brand 103
Name	Drug 102
Dose	50mg
Category	Tablet
Description	

Figure 3.10: Product Details

Chapter 4

Conclusion

4.1 Discussion

In summary, the implementation of Medicine searching related project has demonstrated several positive outcomes. The platform has improved medication accessibility and availability by providing individuals, regardless of their location or mobility, with convenient access to a wide range of medications. Users have expressed high satisfaction with the user experience and convenience of the platform. Medication management tools, such as reminders and refill notifications, have contributed to improved medication adherence. The platform has prioritized security and privacy, ensuring the protection of user data and compliance with relevant regulations. Collaborations with healthcare professionals have further enhanced the credibility and support provided to users. The online pharmacy platform has made a positive impact in the market, attracting and retaining users through its competitive advantages. Despite the successes, there may be opportunities for further improvement, such as expanding service offerings and enhancing user support mechanisms. Overall, the implementation of the online pharmacy platform has demonstrated significant benefits for users, healthcare providers, and the market as a whole.

4.2 Limitations

- Initial Implementation Challenges
- Reliance on Internet Connectivity
- Limited Medication Database
- Security and Privacy Concerns
- Initial

4.3 Scope of Future Work

- Expansion of Medication Database
- Integration with Electronic Health Records (EHR)
- Mobile Application Development
- Machine Learning and Artificial Intelligence
- Collaborations with Healthcare Providers Monitoring and User Feedback