ONLINE MEDICINE ORDERING SYSTEM

(MEDILINK)

AN INTERNSHIP TRAINING REPORT

submitted by

NIKESH KUMAR T

in partial fulfilment for the award of the degree

of

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE AND ENGINEERING

K RAMAKRISHNAN COLLEGE OF TECHNOLOGY

(An Autonomous Institution, affiliated to Anna University Chennai, Approved by AICTE, New Delhi)
Samayapuram – 621 112

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K RAMAKRISHNAN COLLEGE OF TECHNOLOGY

(AUTONOMOUS)

SAMAYAPURAM – 621 112

BONAFIDE CERTIFICATE

Certified that this Internship Training report "**ONLINEMEDICINE ORDERING SYSTEM** " is the bonafide work of **"NIKESH KUMAR T (811721104073)"** who carried out the project work under supervision,

SIGNATURE

Dr. A Delphin Carolina Rani M.E., Ph.D.,

HEAD OF THE DEPARTMENT

PROFESSOR

Department of CSE

K Ramakrishnan College of Technology

(Autonomous)

Samayapuram – 621 112

SIGNATURE

Mrs. G. Rajendra Kannammal, M.E.,

INTERNSHIP COORDINATOR

ASSISTANT PROFESSOR

Department of CSE

K Ramakrishnan College of Technology

(Autonomous)

Samayapuram – 621 112

Submitted for the Industrial Training Report Paper Presentation held on ……

INTERNAL EXAMINER

DECLARATION

I hereby declare that the Internship Training Report on "**ONLINE MEDICINE ORDERING SYSTEM (MEDILINK)**"is the result of original work done by me to the best of my knowledge.

Signature

_____

NIKESH KUMAR T

Place: Samayapuram

Date:

ACKNOWLEDGEMENT

At this pleasing moment of having successfully completed my project, I wish to convey my sincere thanks and gratitude to the management of my college and our beloved chairman **Dr. K. RAMAKRISHNAN B.E.,** who provided all the facilities to me.

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ABSTRACT

The Online Medicine Guide introduces a robust web-based inventory management system, leveraging PHP and MYSQL technologies for seamless user interaction. Comprising Admin and User sides, the system initiates user engagement through an intuitive sign-up and login process. Users access a comprehensive product list, providing detailed information on medicine names, descriptions, and pricing transparency. The platform facilitates user- friendly cart additions for streamlined ordering. Admin oversight ensures meticulous management of requests, guaranteeing the prompt and efficient delivery of medicines. Users can effortlessly locate pharmacies and ambulances through an intuitive interface, emphasizing the system's commitment to swift and potentially life-saving medicine dispatch. Recognizing the critical nature of prompt service, the system prioritizes minimizing delivery delays, with the primary objective of ensuring superior customer satisfaction through reliable and timely medicine deliveries. The Online Medicine Guide further enhances its functionality by aiding users in identifying nearby pharmacies and offering a diverse array of medicines. Committed to providing optimal medical solutions, the system addresses the nuanced needs of each customer through a meticulously curated repository of pharmaceuticals.

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This is certify that Mr./Miss. NIKESH KUMAR.T (8117210407 3)

Student of K. RAMAKRISHNAN COLLEGE OF TECHNOLOGY, TRICHY

underwent Inplant Training / Internship / Course on WEB DEVELOPMENT

concern from 10/04/2025 to 03/08/2025 issued on 03/08/2025

Technical Incharge

Manager

CEO

FANTASY SOLUTION TRICHY

#16, Samnath Plazza, 3rd Floor, Madurai Main Road, Melapudur, Trichy-1.
0431 358 3860 fantazysolution@gmail.com www.fantasysolution.in

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LIST OF ABBREVIATIONS

ABBREVIATIONS

PHP - Hypertext Preprocessor

MYSQL - My Structured Query Language

HTML - Hypertext Markup Language

CSS - Cascading Style Sheets

JS - JavaScript

SQL - Structured Query Language

CHAPTER 1

INTRODUCTION

1.1 OVERVIEW

The Online Medicine Guide is a pioneering web-based medicine inventory management system, developed using PHP and MYSQL technologies. The system encompasses two integral components: the Admin side and the User side, designed to optimize the entire process of medicine procurement and delivery. Users are seamlessly onboarded through a user-friendly sign-up and login procedure, gaining access to a comprehensive product list that includes detailed information on medicine names, descriptions, and transparent pricing. The platform empowers users to effortlessly add selected medicines to their cart, initiating a streamlined ordering process. Admin oversight ensures meticulous request management, guaranteeing the prompt and efficient delivery of medicines. The system's emphasis on swift medicine dispatch is underscored by the intuitive features allowing users to locate pharmacies and ambulances efficiently. Recognizing the critical importance of timely service, the system prioritizes the reduction of delivery delays, with a primary goal of ensuring superior customer satisfaction through reliable and punctual medicine deliveries. In addition to efficient medicine procurement, the Online Medicine Guide extends its functionality by aiding users in identifying nearby pharmacies and offering a diverse array of medicines sourced from various companies.

The system's commitment to addressing the nuanced needs of each customer is evident in its meticulously curated repository of pharmaceuticals. This holistic approach reflects the platform's dedication to efficient service, consistent product availability, and the enhancement of the overall medicine procurement and delivery experience. The Online Medicine Guide stands as a testament to innovation in the healthcare sector, leveraging technology to streamline processes and prioritize the well-being of users.

1.2 PROBLEM STATEMENT

The current medicine procurement systems lack efficiency and pose potential risks due to manual processes and fragmented information. Timely access to crucial medications is hindered, compounded by the absence of a centralized inventory system. Delays in medicine delivery, exacerbated by a lack of real-time updates, can have severe consequences on patient well-being. Addressing these issues is critical to ensure a streamlined process that prioritizes timely delivery, customer satisfaction, and overall healthcare efficacy. The goal is to create a comprehensive and user-centric medicine management system that minimizes delays, enhances accessibility, and prioritizes patient well-being.

1.3 OBJECTIVES

The primary aim of the project is to establish a comprehensive and user-friendly Online Medicine Guide, a web-based medicine inventory management system. The system, developed using PHP and MYSQL, comprises two main components: the Admin side and the User side.

- Efficient User Interaction: Allow users to seamlessly sign up and log in to the system for a user-friendly experience and Provide users with a clear and detailed product list, including medicine names, descriptions, and prices, enhancing their ability to make informed choices.
- Streamlined Ordering Process: Enable users to add selected medicines to their cart for a streamlined and efficient ordering process and Implement an automated system for order processing and delivery confirmation by the admin.
- Swift Medicine Delivery: Ensure prompt and efficient delivery of medicines to users' doorsteps upon admin approval and Facilitate users in finding nearby pharmacies and ambulances for swift access to medical assistance.

1.4 IMPLICATION

The implementation of the Online Medicine Guide introduces several significant implications for the domain of medicine inventory management. Developed as a comprehensive web-based system using PHP and MYSQL, the project comprises two main components: the Admin side and the user side. This architecture facilitates a streamlined user experience, where users can easily sign up, log in, and access a detailed product list showcasing medicine names, descriptions, and prices. The option to add selected medicines to a cart enhances the efficiency of the ordering process. Once the admin approves the request, the project ensures the swift delivery of medicines, offering users the convenience of finding nearby pharmacies and ambulances for immediate medical assistance.

The project's commitment to minimizing delivery delays is underscored by the understanding that even slight interruptions can have serious consequences, emphasizing a proactive approach to prioritizing patient well-being. Additionally, the system strives to enhance customer satisfaction by locating the nearest pharmacy, delivering high-quality medicines promptly, and maintaining a diverse stock that includes offerings from different companies. By catering to the nuanced medical needs of every customer, the Online Medicine Guide aims to optimize the overall experience of medicine procurement and delivery, contributing to the advancement and efficiency of healthcare operations.

1.5 SCOPE OF THE PROJECT

- Medicines Ensure timely delivery within the allocated budget.
- Demonstrate expandability to accommodate future requirements and developments.
- Design the system for ease of operation, making it accessible to users with varying levels of technical expertise.

CHAPTER 2

SYSTEMANALYSIS

2.1 EXISTING SYSTEM

The conventional approach to medicine inventory management faces challenges like manual processes, causing delays and potential errors. Lack of real-time tracking and organization hinders accessibility and transparency for both administrators and users. Users may struggle to find the nearest pharmacies or obtain swift information about available medicines, resulting in suboptimal experiences.

The Online Medicine Guide seeks to address these issues by introducing a web-based solution using PHP and MYSQL. This user-friendly system streamlines processes, from registration to delivery, enhancing accessibility and transparency. Detailed product lists empower users with informed choices, while an intuitive cart system simplifies medicine selection.

The system automates admin processes, ensuring quick and reliable medicine deliveries. Locating pharmacies and ambulances, coupled with a commitment to swift deliveries, aims at improving customer satisfaction and addressing the critical need for timely medicine delivery. The diverse inventory, including medicines from various companies, ensures a wide range of products to meet every customer's unique medical needs. This transformative approach optimizes operations, creating an efficient, secure, and customer- centric medicine inventory management system.

2.1.1 DISADVANTAGES

Security and Privacy Compliance: Address the critical need for robust security measures to safeguard sensitive medical information. Emphasize the importance of compliance with data protection regulations and standards. Detail the encryption protocols, access controls, and authentication mechanisms in place to ensure the confidentiality and integrity of patient data.

Continuous Maintenance and Updates: Recognize the importance of ongoing maintenance and regular updates for the online system. Highlight the commitment to addressing bugs promptly and implementing new features or improvements. Detail the procedures for software updates, including any scheduled maintenance windows, to ensure minimal disruption to users. This reflects a dedication to providing a reliable and up-to-date system that meets evolving user needs and industry standards.

2.2 PROPOSED SYSTEM

In the envisioned system, the Online Medicine Guide will undergo transformative enhancements to ensure a more seamless and user-centric experience. The proposed system aims to introduce an intuitive and secure user registration process, leveraging advanced authentication measures for heightened security. The user interface will be refined for enhanced user interaction, featuring a redesigned product list display that provides comprehensive information on medicine names, descriptions, and recovery attributes.

A smart cart system will be integrated, allowing users to easily add selected medicines with transparent pricing, while real-time order tracking will be introduced for users to monitor the status of their medicine deliveries. The proposed system also explores the incorporation of artificial intelligence algorithms to offer personalized medicine recommendations based on user preferences.

Administrators will benefit from an automated inventory management system, ensuring timely restocking to prevent shortages. Additionally, blockchain technology may be integrated to enhance data security, providing a tamper-proof environment.

2.2.1 ADVANTAGES

Elevated User Experience and Interaction: The envisioned system prioritizes user experience by introducing an intuitive and secure user registration process. With refined user interfaces and a redesigned product list display, users can effortlessly navigate and access comprehensive information about medicines. This approach not only fosters user satisfaction but also ensures that users can make informed decisions about their healthcare needs with ease and clarity.

Efficiency through Automation and Real-time Tracking: The proposed system integrates a smart cart system and real-time order tracking, enhancing efficiency throughout the medicine procurement process. Users can easily add medicines to their cart with transparent pricing, while real-time tracking empowers them to monitor the status of their medicine deliveries. For administrators, an automated inventory management system ensures timely restocking, preventing shortages and streamlining operations. This emphasis on automation contributes to a more efficient and reliable medicine inventory management process.

2.3 USECASEDIAGRAM

The use case diagram for the Online Medicine Ordering System encapsulates various interactions involving the primary actors: Customers, Admin, and the Delivery Service. Customers can register, browse medicines, add them to their cart, and place orders, while the Admin oversees order approval and preparation for delivery. The system also allows customers to find nearby pharmacies and ambulances. Admins, represented as an actor, can log in to access administrative features. This comprehensive diagram captures the essential functionalities, showcasing the seamless flow of interactions between users and the system in the process of ordering medicines online.

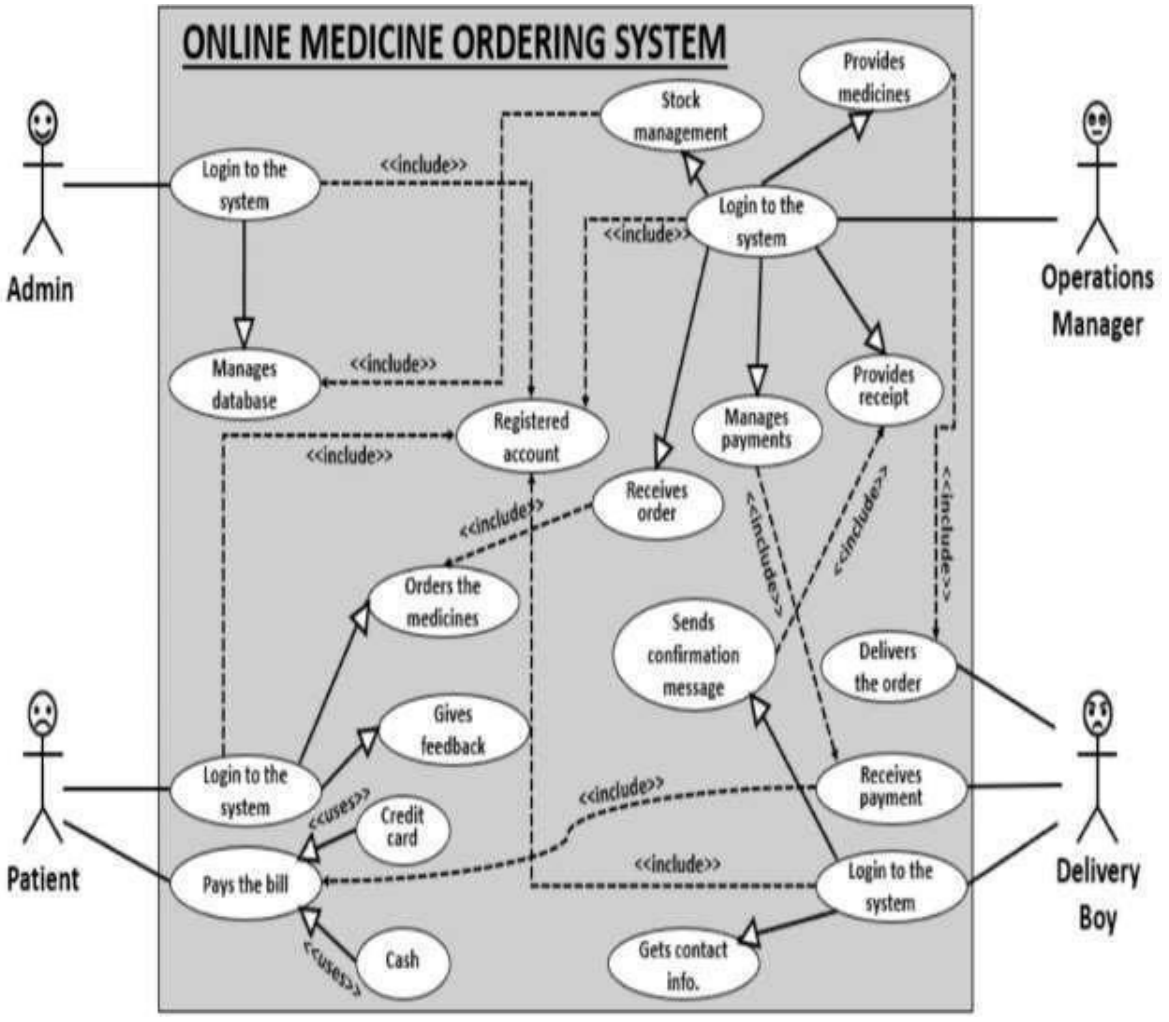


Fig.2.1 USECASE DIAGRAM

2.4 DATA SCHEMA DIAGRAM

The data schema diagram for the Online Medicine Ordering System outlines the structure of essential entities, including "Customers," "Medicines," "Orders," "Pharmacies," and "Admins." Relationships between these entities are established to maintain organized and interconnected data. For instance, "Customers" and "Medicines" are linked to record user information and medicine details, while the "Orders" entity connects customers with their selected medicines. The "Pharmacies" entity includes location and contact details, and the "Admins" entity stores information about system administrators. This schema provides a foundational framework for storing and managing data efficiently within the system.

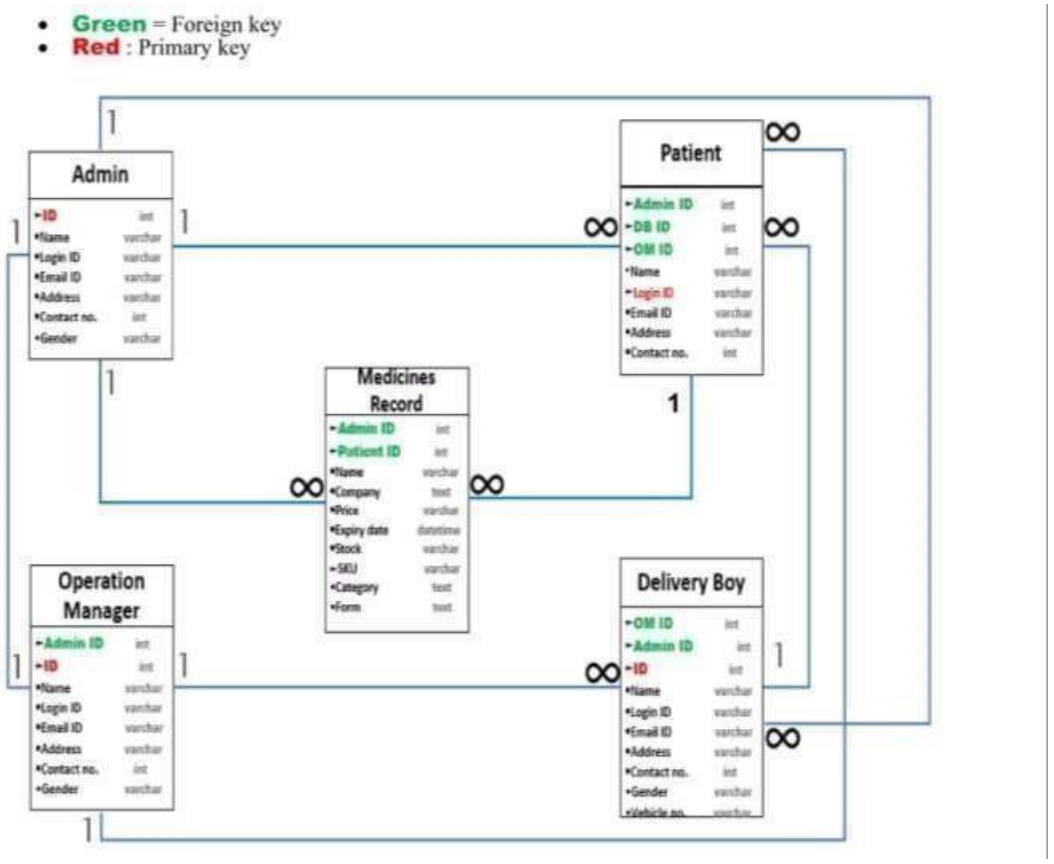


Fig.2.2 DATA SCHEMA DI

2.5 SEQUENCE DIAGRAM

The data sequence diagram for the Online Medicine Ordering System delineates the chronological flow of data during a typical order transaction. It begins with the customer initiating an order, selecting medicines, and placing the order. The sequence illustrates data interactions such as retrieving medicine details, updating the database with order information, and triggering the admin approval process. This diagram provides a concise visual representation of the data flow and interactions within the system during the ordering process.

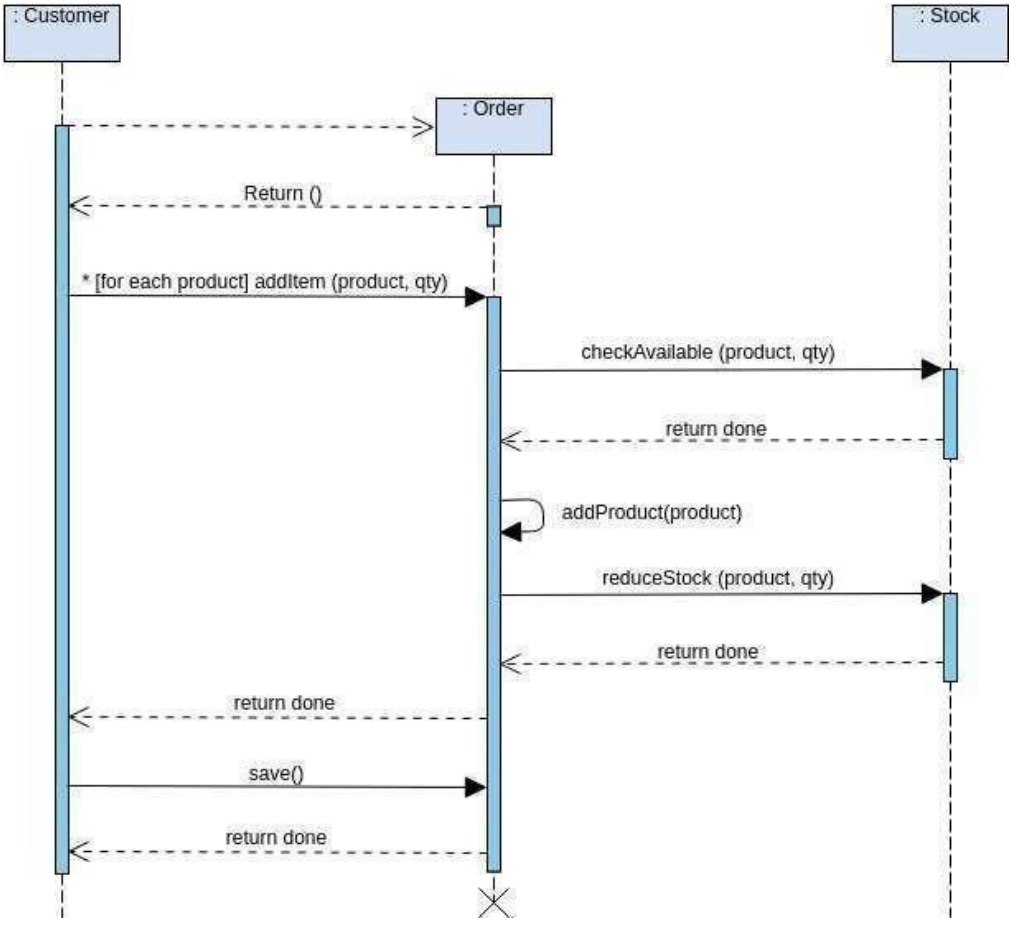


Fig.2.3 SEQUENCE DIAGRAM

2.6 ER DIAGRAM

The Entity-Relationship Diagram (ERD) for the Online Medicine Ordering System encapsulates essential relationships succinctly. Users, with distinct IDs, interact with the system, placing orders that generate unique order IDs. Each order corresponds to one or more medicines, identified by their respective IDs, forming a cardinal relationship. Pharmacies, marked by unique IDs, stock various medicines, establishing a many-to-many association. The ERD concisely illustrates these interconnections, laying the groundwork for seamless data management within the system.

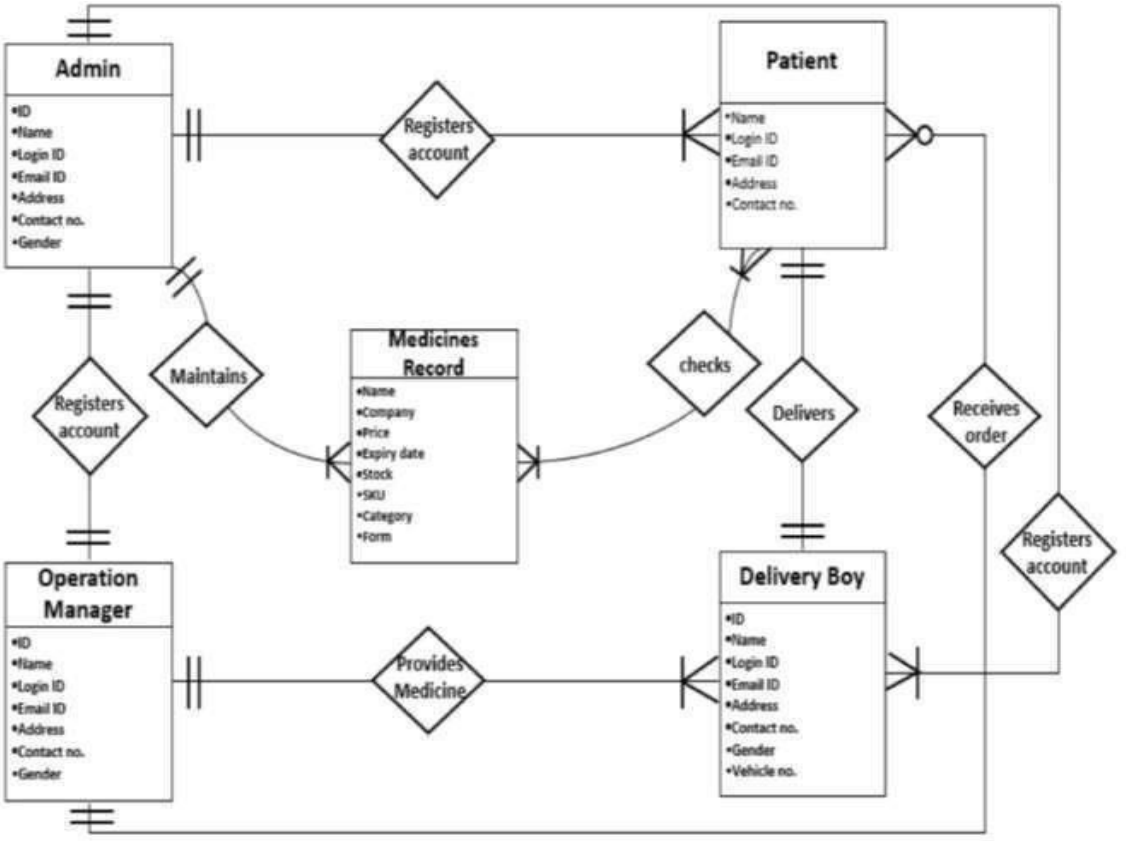


Fig.2.4 ER DIAGRAM

2.7 DATA FLOW DIAGRAM (DFD)

A data-flow diagram is a way of representing a flow of data through a process or a system (usually an information system). The DFD also provides information about the outputs and inputs of each entity and the process itself.

LEVEL 0

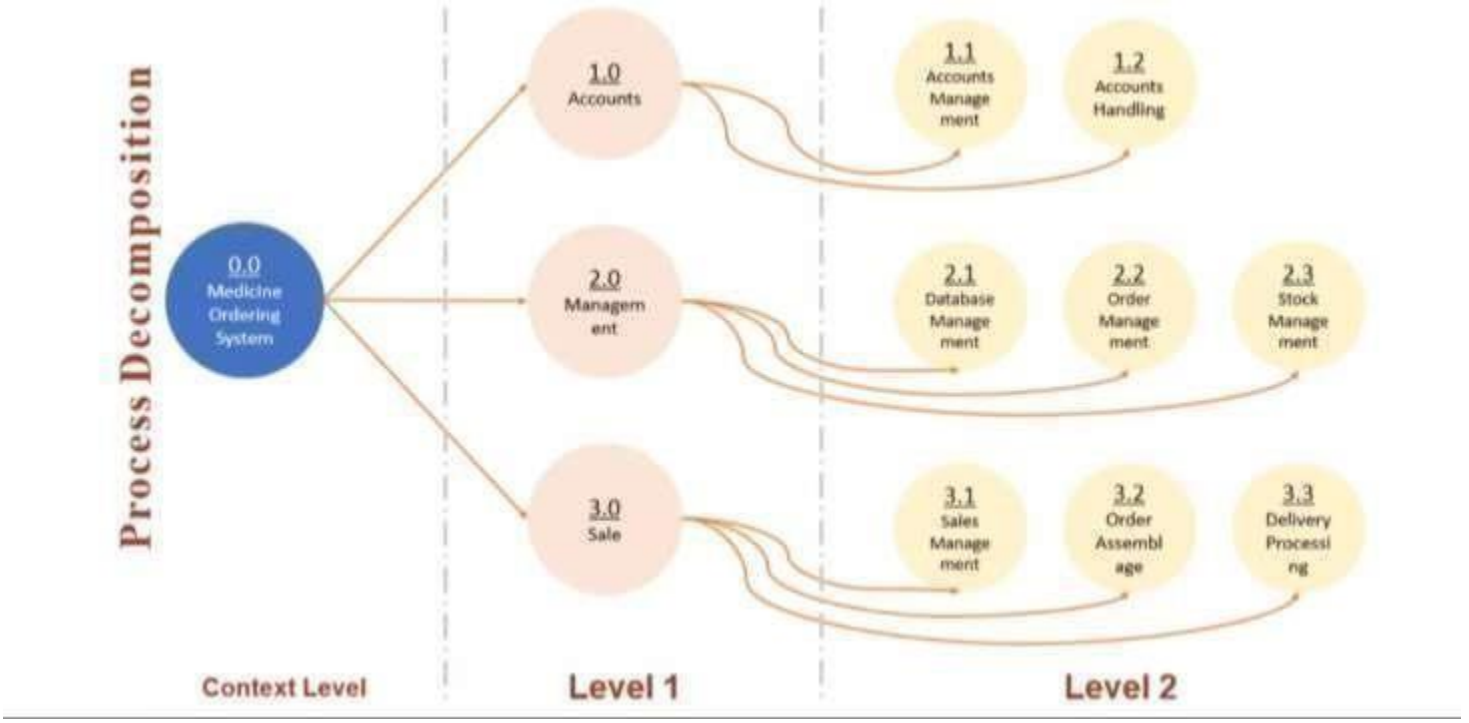


Fig.2.5 DFD LEVEL 0 DIAGRAM

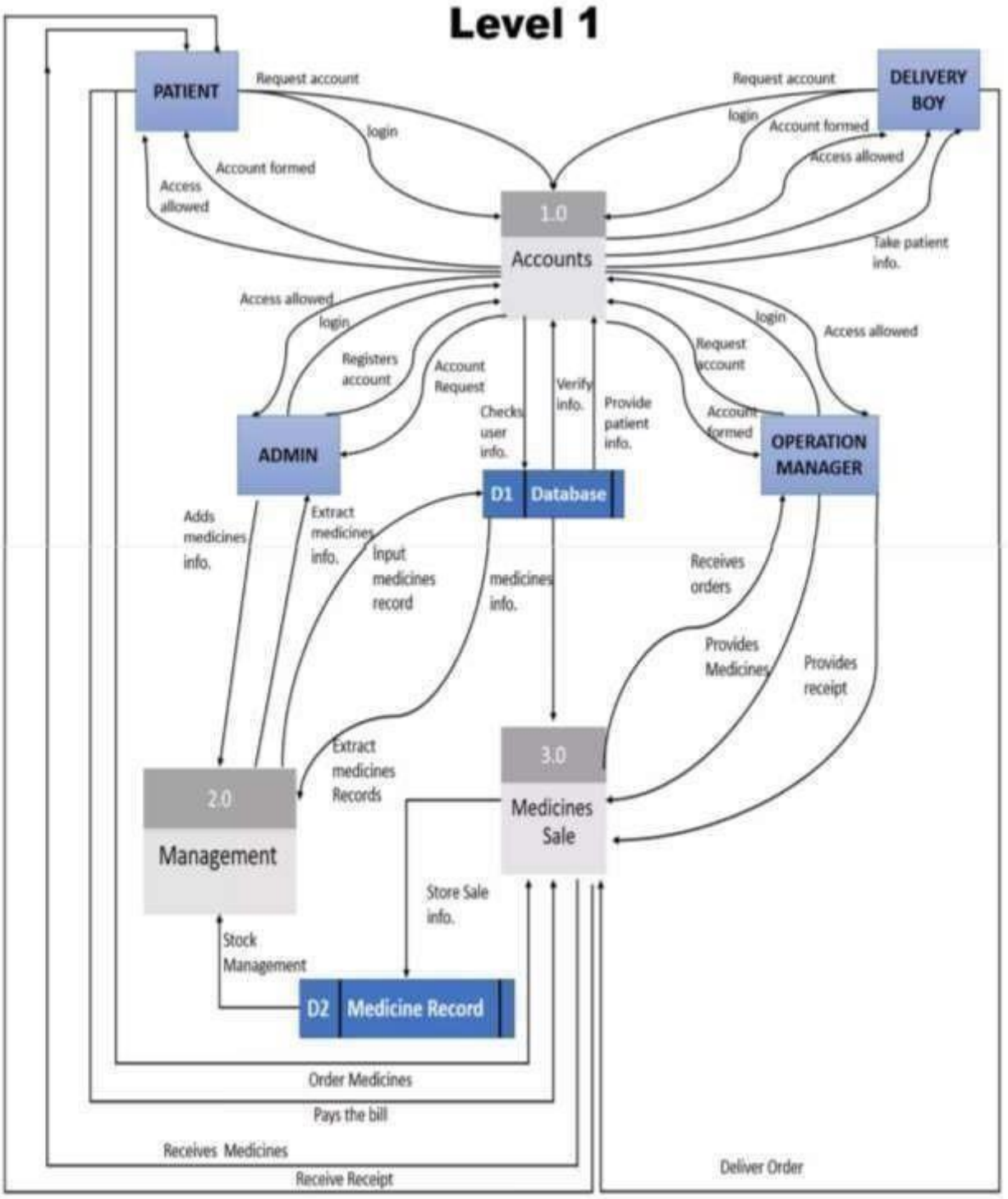
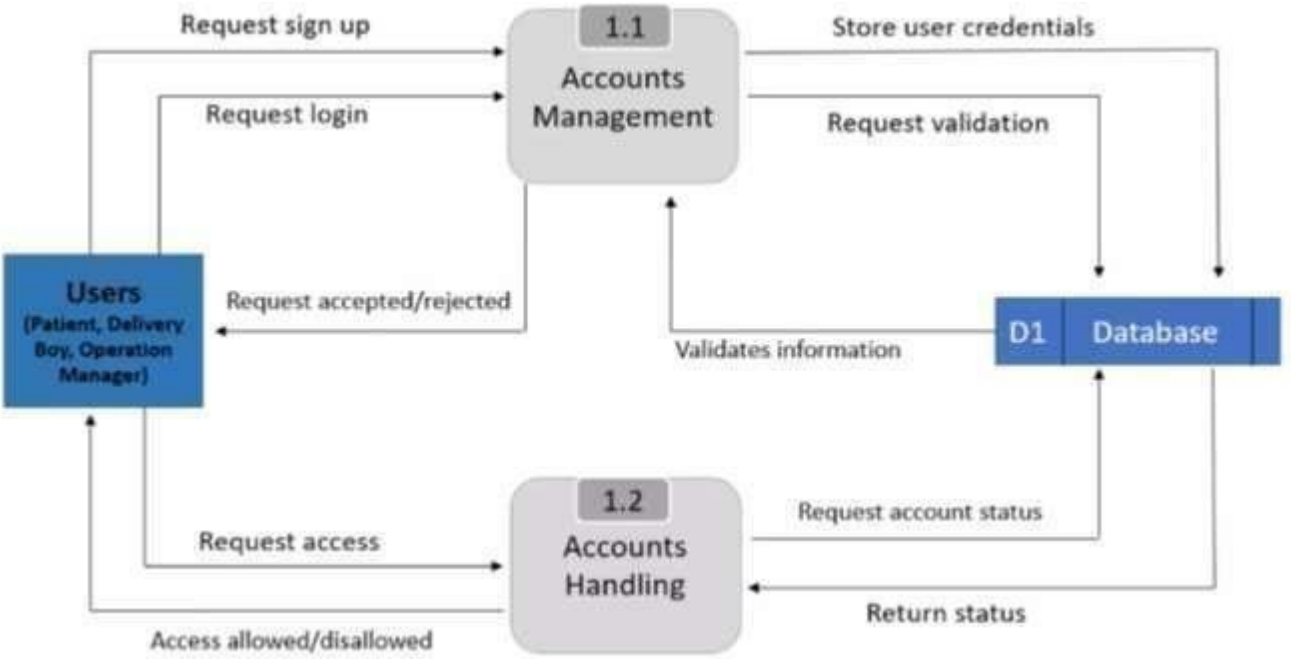
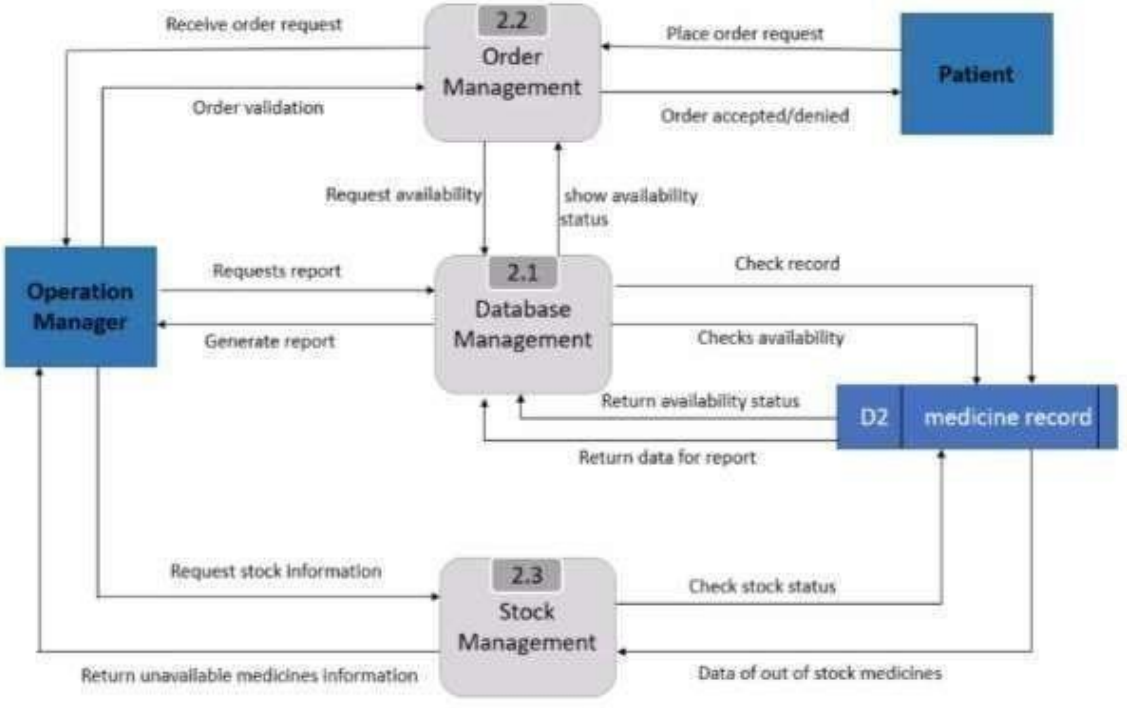


Fig.2.6 DFD LEVEL 1 DIAGRAM

LEVEL 2


Request sign up
1.1
Accounts Management
Store user credentials
Request login
Request validation
Users
(Patient, Delivery Boy, Operation Manager)
Request accepted/rejected
Validates information
D1
Database
1.2
Accounts Handling
Request account status
Request access
Return status
Access allowed/disallowed


Receive order request
2.2
Order Management
Place order request
Patient
Order validation
Order accepted/denied
Request availability
show availability status
Operation Manager
Requests report
2.1
Database Management
Check record
Generate report
Checks availability
Return availability status
D2
medicine record
Return data for report
Request stock information
2.3
Stock Management
Check stock status
Return unavailable medicines information
Data of out of stock medicines

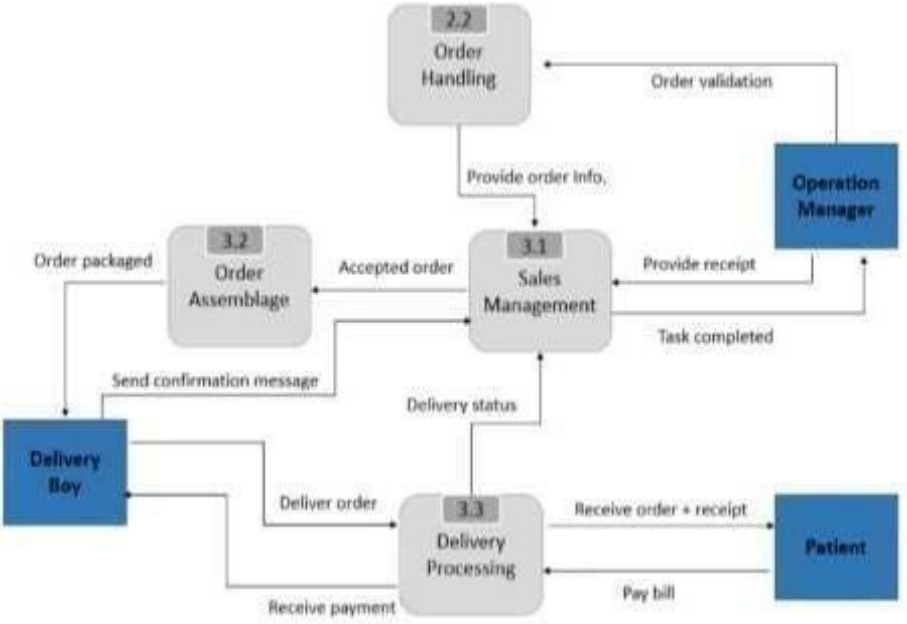


Fig.2.7 DFD LEVEL 2 DIAGRAM

2.8 SYSTEM INTERFERECE

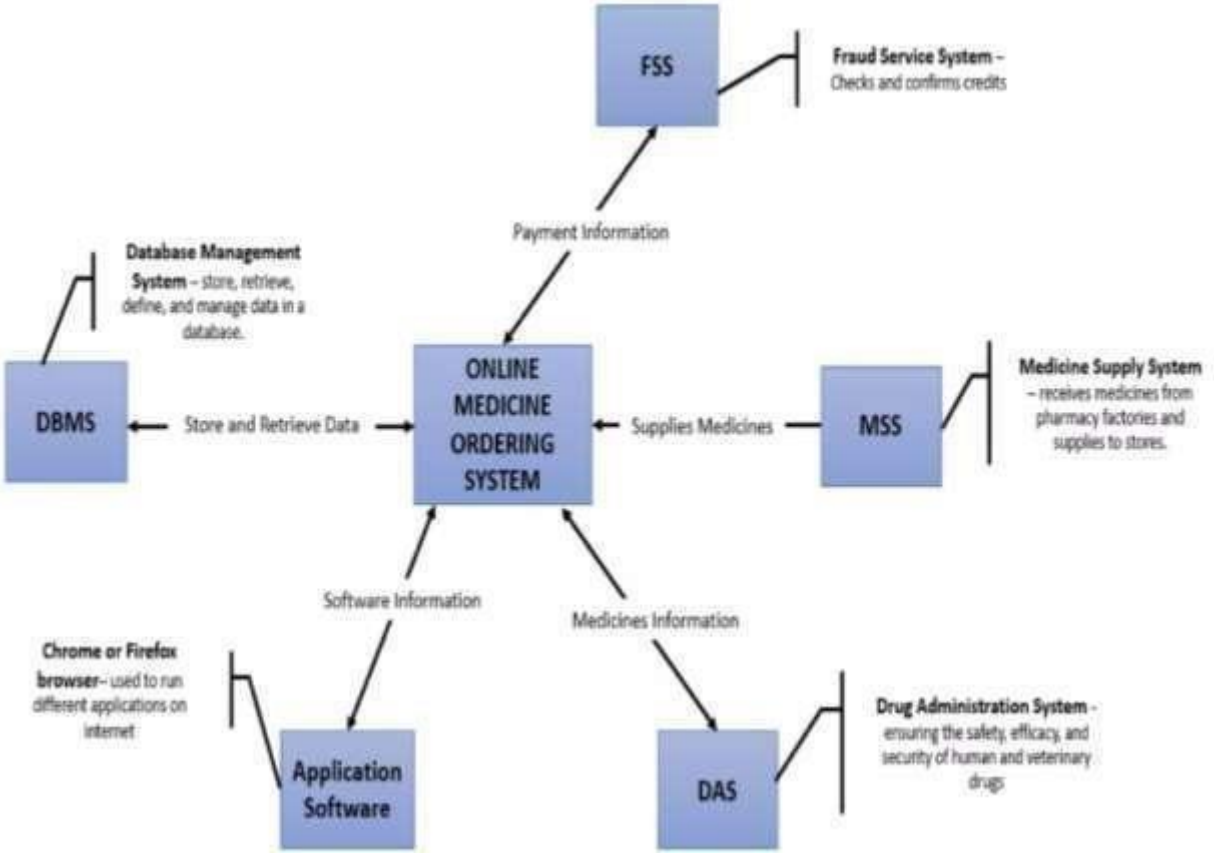


Fig.2.8 SYSTEM INTERFERENCE

CHAPTER 3

SYSTEM SPECIFICATION

3.1 HARDWARE REQUIREMENTS

- Processor – Intel i3 or Higher.
- RAM – 4GB or Higher.
- Storage – 150GB or Higher.

3.2 SOFTWARE REQUIREMENTS

- **Operating System**:

  Compatible with major operating systems (Windows, macOS, Linux).

- **Frontend Development:**

  HTML for page layout and design CSS for styling and design.

  JavaScript for frontend interactivity.

- **Backend Development:**

  PHP for server-side scripting.

- **Responsive Design Framework:**

  Bootstrap for a consistent and mobile-friendly user interface.

- **JavaScript:**

  Ensure a modern web browser with JavaScript support.

PHP:

Hypertext PHP (Hypertext Preprocessor) assumes a central role as the primary server- side scripting language. Its incorporation is fundamental for the dynamic handling of content, server-side processing, and seamless interaction with databases. PHP is tasked with executing scripts on the server, enabling the generation of dynamic content in response to user inputs and requests. The essence of PHP lies in its multifaceted functionality, encompassing critical aspects such as server-side processing, database interactions for the retrieval and storage of medicine-related information, and user authentication to ensure secure access based on predefined roles.

Emphasizing robust database connectivity, PHP facilitates essential CRUD (Create, Read, Update, Delete) operations, contributing to the maintenance of accurate and up-to-date information within the system. Security measures, including input validation, data sanitization, and protection against SQL injection, are diligently implemented within PHP scripts to fortify the system against potential vulnerabilities. PHP seamlessly integrates with other web technologies such as HTML, CSS, and JavaScript, playing a pivotal role in creating a cohesive and interactive user interface. This integration enables dynamic content generated by PHP to enhance the overall user experience, ensuring an intuitive and responsive interface for customers.

The modular nature of PHP, coupled with its extensive community support, positions it as a scalable choice for our online medicine ordering system. This scalability enables the effortless addition of new features and functionalities as the project evolves over time. Efforts are directed towards optimizing PHP code to enhance system performance, with a focus on minimizing response times to guarantee a smooth and efficient user experience. Thorough testing and debugging procedures are implemented during the development phase to identify and address any issues within the PHP scripts. Dependencies on external libraries, frameworks, or tools, if applicable, will be specified to enhance functionality and streamline development in conjunction with PHP.

XAMPP:

The utilization of the XAMPP server environment is integral to the deployment and execution of PHP (Hypertext Preprocessor) scripts. XAMPP, which stands for Cross-Platform (X), Apache (A), MariaDB (M), PHP (P), and Perl (P), provides a comprehensive server solution for local development. The Apache server within XAMPP facilitates the hosting and execution of PHP scripts, enabling server-side processing critical to the dynamic functionality of our system. The MariaDB database component ensures seamless integration with PHP for efficient data retrieval and storage, contributing to the core functionalities of the online medicine ordering platform. This inclusion of XAMPP as the server environment underscores its pivotal role in supporting PHP, ultimately enhancing the reliability and performance of our web application.

HTML:

HTML (Hypertext Markup Language) serves as the primary markup language for structuring the user interface and content presentation. Integrated seamlessly with PHP (Hypertext Preprocessor), HTML forms the cornerstone of our web application's architecture. PHP scripts embedded within HTML enable robust server-side processing, allowing for dynamic and interactive content generation. This integration ensures a responsive and user- friendly interface for customers while facilitating essential server-side functionalities. The synergy between HTML and PHP is fundamental to the system's design, contributing to a seamless and efficient online ordering experience for users.

JAVA SCRIPT:

JavaScript assumes a pivotal role in enhancing the frontend interactivity and user experience. Integrated with PHP (Hypertext Preprocessor), JavaScript contributes to the overall dynamic functionality of the system. While HTML provides the structural foundation and PHP handles server- side processing.

CHAPTER 4

MODULE DESCRIPTION

4.1 USER AUTHENTICATION AND REGISTRATION

This module encompasses the user authentication and registration functionalities of the Online Medicine Guide system. Users are required to sign up with a valid email address and password. Upon successful registration, users can log in
securely to access personalized features and initiate the medicine procurement process.

- User registration with email verification.
- Secure user authentication using username and password.
- Password recovery mechanisms for user convenience.

4.2 PRODUCT LISTING AND INFORMATION

The Product Listing and Information module governs the presentation of medicines to users. After logging in, users can explore a comprehensive product list featuring medicine names, detailed descriptions highlighting their recovery attributes, and transparent pricing. This module aims to facilitate informed decision-making
for users.

- Display of medicine names, descriptions, and prices.
- User-friendly interface for easy navigation and information retrieval.

4.3 CART MANAGEMENT

The Cart Management module enables users to add selected medicines to their cart for streamlined order processing. Users can review their selections, modify quantities, and proceed to checkout. This module ensures a seamless and transparent experience for
users during the medicine selection phase.

- Admin review and approval of user requests.
- Real-time order tracking for users.
- Integration with pharmacy and ambulance services for quick and efficient delivery.

4.4 PHARMACY AND AMBULANCE LOCATOR

The Pharmacy and Ambulance Locator module enables users to find nearby pharmacies and ambulances. Users can access information such as addresses and contact numbers, ensuring accessibility to essential healthcare services.

- Locating pharmacies based on user proximity.
- Providing contact details and addresses for pharmacies and ambulances.

4.5 DATABASE MANAGEMENT

This module is responsible for database setup and management. Users are instructed to create a database named medicineguide.sql in localhost/phpmyadmin/ and import the necessary data for seamless system functionality.

- Database setup instructions for administrators.
- Importing and managing the medicineguide.sql database.

4.6 TECHNOLOGY STACK

This section outlines the technologies employed in the project, including HTML, CSS, JavaScript, PHP, Bootstrap, and MySQL. Each technology contributes to specific aspects of the system, ensuring a responsive and feature-rich user experience.

- HTML for page layout and design.
- CSS for styling and design elements.
- JavaScript for frontend interactivity.
- PHP for backend processing.
- Bootstrap for responsive design.

4.7 SUPPORTED OPERATING SYSTEMS

The Online Medicine Guide is designed to run on multiple operating systems for user convenience. This section specifies compatibility with Windows, MAC, and Linux operating systems.

- Windows
- MAC
- Linux

CHAPTER 5

SYSTEM ARCHITECTURE

The architecture of the software product revolves around a web-based system designed to facilitate the seamless buying and selling of medicines. With the primary goal of enhancing customer convenience, the product eliminates the need for physical visits to traditional pharmacies. The web-based platform integrates with external databases to efficiently extract and store comprehensive information about various medicines. This architecture is intricately structured to ensure a user-friendly experience, enabling customers to browse, purchase, and manage their medication needs online. Through the integration of diverse functionalities and database interactions, the architecture aims to provide a robust and efficient solution for both customers and sellers in the pharmaceutical domain:

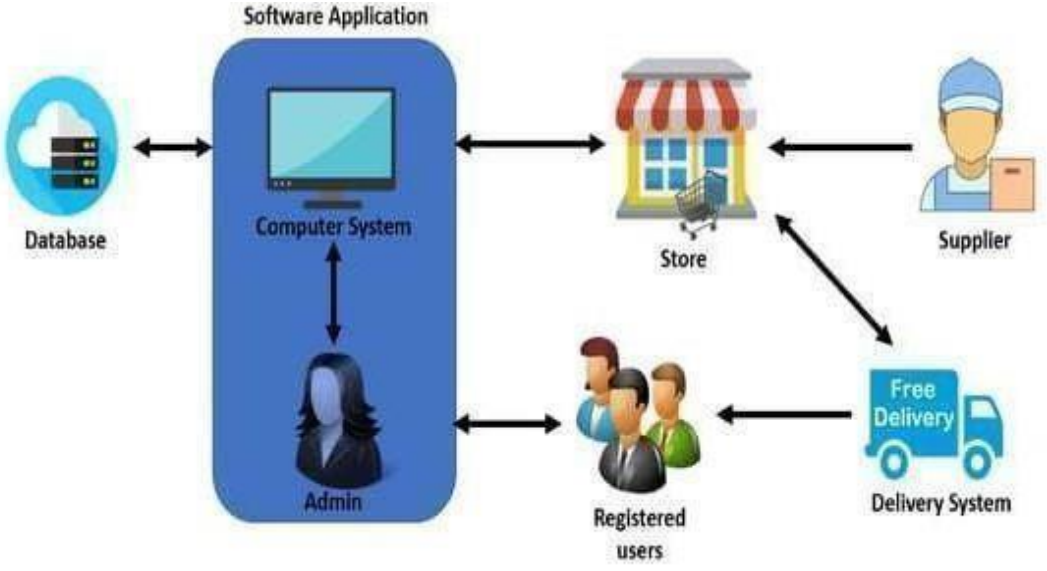


Fig.2.9 WORK FLOW IMPLEMENTAION.

The Online Medicine Guidesystem is architecturally designed as a comprehensive web- based solution for efficient medicine inventorymanagement. The architecture comprises two main components: the Adminside and the Userside, providing distinct functionalities for administrators and end-users.

5.1. USERAUTHENTICATIONANDAUTHORIZATION:

- Users initiate their interaction with the system by signing up and subsequently logging in.
- The authentication process ensures secure access and authorization, distinguishing between administrators and general users.

5.2. USERINTERFACE:

- Upon successful login, users access the User side, featuring an intuitive and visually appealing interface.
- Userscanview medicinepricesandaddselecteditems to their cart for convenient online shopping.

5.3. CARTMANAGEMENT:

- The cart management system enables users to review selected medicines before finalizing their purchase.
- Userscanadd, remove, or modifyitems intheir cart, providing flexibility in the shopping process.

5.4. ORDERPROCESSING:

- Once users confirm their orders, the system sends a request to the Admin side for approval.
- UponAdmin approval, the ordered medicines areprepared for delivery.

5.5. LOCATION-BASEDSERVICES:

- The system in corporates location-based features,allowing users to find nearby pharmacies and ambulances.
- Users can access details suchas addresses and contact numbers for identified pharmacies and ambulances.

5.6. DELIVERYMANAGEMENT:

- Thesystem prioritizes swiftdeliverytoensure customer satisfaction.
- Admins can manage and track deliveries, aimingto minimize any delays that could impact users' health.

5.7. MULTI-COMPANYMEDICINE INVENTORY:

- The software architecture accommodates a diverse inventory by stocking medicines from various companies.
- This approach enables the system to cater to abroad range of customer preference sand medical needs.

5.8. DATABASEINTEGRATION:

- The web-based platform seamlesslyintegrates with aMYSQL database, efficiently extracting and storing comprehensive information about medicines.
- Database interactions support functionalities such as product listings, orderprocessing, and user information storage.

5.9. SCALABILITYANDFLEXIBILITY:

- The architecture is designed with scalability in mind, allowing for future expansions and updates to meet evolving business requirements.
- Flexibility is maintained to incorporate additional features and adapt to changes in the pharmaceutical domain.

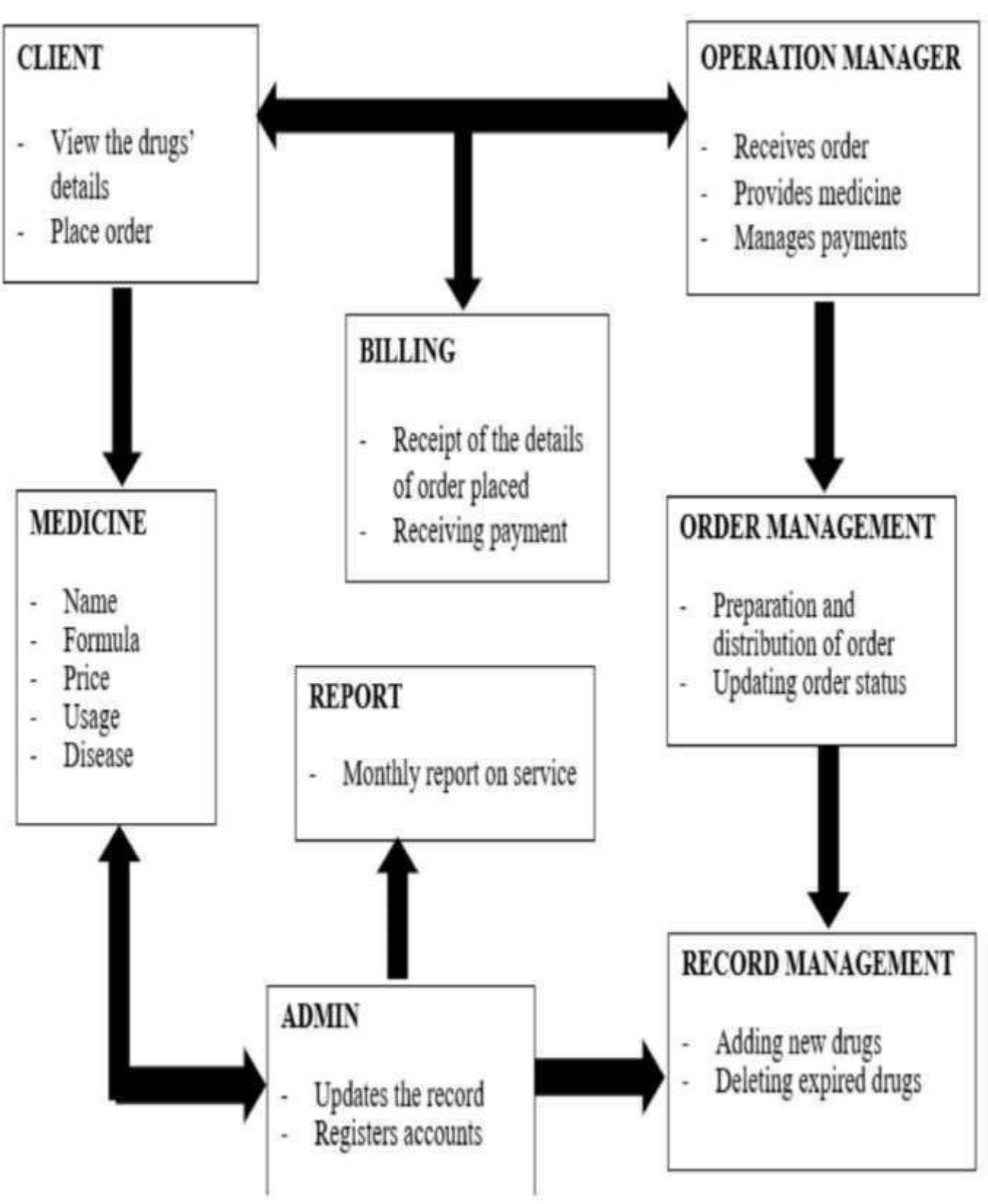


Fig.2.10 ARCHITECTURE AND WORKFLOW MECHANISM OF THE SYSTEM.

CHAPTER 6

CONCLUSION AND FUTURE ENHANCEMENT

6.1 CONCLUSION

In conclusion, the Online Medicine Guide stands as a sophisticated and indispensable solution for the efficient management and acquisition of pharmaceuticals. This web-based system, meticulously crafted in PHP and MYSQL, presents a seamless user experience through its dual interfaces—admin and user sides.

Beginning with a secure user registration and login process, the platform grants users access to a comprehensive product list featuring detailed information about each medicine's name, description, and curative properties. The transparent pricing model ensures informed decision-making, while the user-friendly cart system facilitates a swift and convenient checkout process.

Critical to our commitment to healthcare excellence is the timely delivery of medicines. The administrator's role in verifying and accepting user requests underscores our dedication to minimizing any potential delays, recognizing the life-saving nature of our offerings. This commitment extends to the provision of additional features, allowing users to locate nearby pharmacies and ambulances, thereby enhancing overall accessibility to healthcare resources.

The Online Medicine Guide transcends the conventional boundaries of medicine procurement by accommodating diverse medications from various pharmaceutical companies. This inclusivity reflects our unwavering dedication to meeting the unique medical needs of every customer comprehensively.

In essence, this system is not merely a technological solution but a testament to our commitment to revolutionizing healthcare accessibility. By embracing efficiency, transparency, and a customer-centric approach, the Online Medicine Guide emerges as a reliable and indispensable tool in the realm of online medicine management, poised to redefine the standards of service in the healthcare industry.

6.2 FUTURE ENHANCEMENT

1. **Online Prescription Management:**
    - Enable authorized doctors to issue prescriptions online through the platform.
    - Streamline and digitize the prescription issuance process for enhanced efficiency.
2. **Paperless Healthcare Documentation:**
    - Securely store all patient details in electronic health records (EHR).
    - Allow patients to access their health information digitally, eliminating the need for paper documents.
3. **Aadhaar-Based User Authentication:**
    - Implement Aadhaar-based authentication for user logins.
    - Enhance user verification and security through Aadhaar identification.
4. **Digital Patient-Doctor Interactions:**
    - Facilitate paperless interactions between patients and doctors.
    - Allow secure sharing of medical records and history during online consultations through softcopies.
5. **Integrated Prescription Purchase:**
    - Simplify the medication procurement process by integrating prescription issuance and purchase within the same interface.
6. **Biometric Authentication for Added Security:**
    - Explore the integration of biometric authentication methods (fingerprint, facial recognition).
    - Add an extra layer of security to ensure only authorized

APPENDIX A

SAMPLE CODE

INDEX.HTML

```
<!DOCTYPE html>
<!DOCTYPE html>
<!--[if lt IE 7]>      <html class="no-js lt-ie9 lt-ie8 lt-ie7"> <![endif]-->
<!--[if IE 7]>         <html class="no-js lt-ie9 lt-ie8"> <![endif]-->
        <!--[if IE 8]>         <html class="no-js lt-ie9"> <![endif]-->
        <!--[if gt IE 8]><!--> <html class="no-js"> <!--<![endif]-->
        <html lang="en-US">
        <head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="keywords" content=" ..... " />
<meta name="description" content=" ..... " />
<meta name="viewport" content="width=device-width, initial-scale=1, maximum-
scale=1" />
<link rel="shortcut icon" type="image/x-icon"
href="favicon.ico ..... " />
<link rel="apple-touch-icon" type="image/x-icon" href="apple-touch-
icon.png ..... " />
<title>Medicine Guide</title>
<link rel="stylesheet" type="text/css" href="css/font-awesome.min.css" media="all" />
<link rel="stylesheet" type="text/css" href="css/normalize.css" media="all" />
<link rel="stylesheet" type="text/css" href="css/bootstrap.css" media="all" />
<link rel="stylesheet" type="text/css" href="style.css" media="all" />
<link rel="shortcut icon" href="img/Graphicloads-Medical-Health-Medicine-box-2.ico">
<script type="text/javascript" src="js/modernizr.js"></script>
<script type="text/javascript" src="js/jquery.js"></script>
<script type="text/javascript" src="js/bootstrap.js"></script>
        </head>

        <body>
        <!--
<div class="header-area">
<div class="logo col-md-5">
<img src="images/logo.png" alt="" />
</div>
<div class="menu col-md-5">
<ul class= "list-unstyled list-inline pull-right">
```

```
<li><a href="#">Home</a></li>
<li><a href="#">Cart</a></li>
<li><a href="#">Logout</a></li>
</ul>
</div>
</div>
</div>
        </div>
<div class="login">
<form class="col-md-4 col-sm-offset-4 text-center" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>" method="post" style="margin:
2%;background-color: #e3e8ef;border: 1px #e3e8ef;border-radius: 5%; opacity:0.6;filter:
alpha(opacity=60);text-align: center;margin-left: 35%;padding-top: 2%;padding-bottom:
2%;box-shadow: 5px 10px #989ba0;">
<div class="form-group center" >
<label for="email" style="font-weight: bold;color: #000000;">Email  address:</label>
<input type="email" class="form-control" id="email" style="width:50%;margin-left:
24%;">
        </div>
       <div class="form-group">
<label for="pwd" style="font-weight: bold;color: #000000;">Password:</label>
<input type="password" class="form-control" id="pwd"     style="width:50%;margin-
left: 24%">
        </div>
 <div class="checkbox">
 <label style="font-weight: bold;color: #000000;">
         <input type="checkbox"> Remember me</label>
 </div>


 <button type="submit" class="btn btn-default" style="font-weight: bold;color:     #
000000;">Login</button>
<br>
<a href="pharsignup.html" style="font-weight: bold;color: blue;">As       Pharmacist</a>
</form>
</div>
         <!--
<div class="signup col-sm-offset-8 col-md-8">
<p>Not a registered user. Please Sign Up...</p>
<button type="submit" class="btn btn-success">  </button>
<button type="submit" class="btn btn-success"></button><a href="cussignup.html">As
Customer</a>
</div>
         -->
```

```
</body>
</html>
```

INDEX.PHP

```
<?php
session_start();
?>
<!DOCTYPE html>
<!--[if lt IE 7]><html class="no-js lt-ie9 lt-ie8 lt-ie7"> <![endif]-->
<!--[if IE 7]><html class="no-js lt-ie9 lt-ie8"> <![endif]-->
<!--[if IE 8]><html class="no-js lt-ie9"> <![endif]-->
<!--[if gt IE 8]><!--> <html class="no-js"> <!--<![endif]-->
<html lang="en-US">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="keywords" content=" ..... " />
<link rel="shortcut icon" type="image/x-icon"
href="favicon.ico ..... " />
<link rel="apple-touch-icon" type="image/x-icon" href="apple-touch-
icon.png ..... " />
<title>Medilink </title>
<link rel="stylesheet" type="text/css" href="css/font-awesome.min.css" media="all" />
<link rel="stylesheet" type="text/css" href="css/normalize.css" media="all" />
<link rel="stylesheet" type="text/css" href="css/bootstrap.css" media="all" />
<link rel="stylesheet" type="text/css" href="style.css" media="all" />
<link rel="shortcut icon" href="img/Graphicloads-Medical-Health-Medicine-box-2.ico">
<script type="text/javascript" src="js/modernizr.js"></script>
<script type="text/javascript" src="js/jquery.js"></script>
<script type="text/javascript" src="js/bootstrap.js"></script>
</head>
<body class="">
<div class="header-area" style="background: rgba(58, 186, 201, 0.66);">
<div class="header-top">
<!--<img src="img/client-1295901_960_720.png" style="max-height: 5%;max-width:
5%;margin-left: 48%;opacity:1.0;"> <h1 style="text-align: center;color:
black">Medicine Guide</h1>-->
<div class="container">
<img src="images/logo1.png" alt="" />
</div>
<div class="menu col-md-7">
<ul class="list-unstyled list-inline pull-right">
<li><a href="cussignup.php" style="color:navy;">Customer SignUp. . </a></li>
```

```
</ul>
</div>
</div>
</div>

        <div class="slider">
        <!--  <h2></h2>  -->
        <div id="myCarousel" class="carousel slide" data-ride="carousel">
        <!-- Indicators -->
        <ol class="carousel-indicators">
        li data-target="#myCarousel" data-slide-to="0" class="active"></li>
        <li data-target="#myCarousel" data-slide-to="1"></li>
        <li data-target="#myCarousel" data-slide-to="2"></li>
        </ol>

        <!-- Wrapper for slides -->
        <div class="carousel-inner">
        <div class="item active">
        <img src="images/19.jpg" alt="Los Angeles" style="width:100%;">
        <div class="carousel-caption">
        <h3 style="color:#312B35">Medicine Guide</h3>
        <p style="color: #312B35;">For your health care!!</p>
        </div>
        </div>

        <div class="item">
        <img src="images/21c.png" alt="Chicago" style="width:100%;">
        <div class="carousel-caption">
        <h3>Browse Medicine</h3>
        <p>Find Your Medicine and Get Home Delivery !!</p>
        </div>
        </div>

       <div class="item">
       <img src="images/23.jpg" alt="New york" style="width:100%;">
       <div class="carousel-caption">
       <h3>Call Ambulence</h3>
       </div>
       </div>
      <span class="sr-only">Previous</span>
      </a>
      <a class="right carousel-control" href="#myCarousel" data-slide="next">
      <span class="glyphicon glyphicon-chevron-right"></span>
      <span class="sr-only">Next</span>
      </a>
```

```
</div>
</div>


<div class="parts container row" style="margin-top:30px;padding-bottom:30px;
background:#EAEAEAE6;width: 101%;">
<div class="col-md-4 text-center" style="margin-top:60px;padding-bottom:30px;">
<img src="images/31.png" alt="" />
<h3>Same Day Delivery</h3>
<p>We deliver your medicine on the same day you order. Customer satisfaction is our
main goal!</p>
<div class="col-md-4 text-center" style="margin-top:60px;padding-bottom:30px;">
<img src="images/33.png" alt="" />
<h3>Quality Medicine</h3>
<p>We deliver the best medicines for the customers for better results to both customers
and ourselves.</p>
</div>
</div>

<div class="parts container row" style="padding-bottom:30px;
background:#F2F2F2;width: 101%;">
<div class="row">
<div class="col-md-6 text-center" style="margin-top:60px;padding-bottom:30px;">
<img src="images/15.jpg" alt="" />

</div>
<div class="col-md-6 text-center" style="margin-top:130px;padding-bottom:30px;">

<h3>Our Stock</h3>
<p style="font-size: 18px;">We maintain a comprehensive inventory of various
medicines, including identical medications from different pharmaceutical companies.
Our commitment is to cater to the diverse medical needs of every customer, ensuring that
we have a wide range of medicines available to serve their requirements.</p>
<div class="row">
<div class="col-md-6 text-center" style="margin- top:130px;padding-
bottom:30px;>
top:130px;padding-bottom:30px;">
<h3>Extra Fast Delivery</h3>
<p style="font-size: 18px;">We ensure the prompt delivery of your medication,
understanding that individuals do not order medicine for mere fantasy. We firmly believe
that even a slight delay in delivery could potentially impact someone's life. Therefore,
our objective is to swiftly deliver the medication to your doorstep, prioritizing customer
```

```
satisfaction.</p>
</div>
<div class="col-md-6 text-center" style="padding-bottom:30px;">
<img src="images/18.jpg" alt="" />
</div>
<div class="col-md-6 text-center" style="margin-top:60px;padding-bottom:30px;">
<img src="images/15a.jpg" alt="" />

</div>
<div class="col-md-6 text-center" style="margin-top:130px;padding-bottom:30px;">

<h3>Quality Medicine</h3>
<p style="font-size: 18px;">Medicine is a delicate product, and if not handled with proper care, its quality may be compromised. We meticulously adhere to the guidelines provided by the pharmaceutical company to maintain the integrity of the products. It is important to note that we do not retain or offer expired medicines in our inventory.</p>
</div>

</div>

<div class="container row sgn" style="margin-top:30px;padding-bottom:30px; width: 103%;">
<div class="col-md-12 text-center" style="margin-top:60px;padding-bottom:30px;">
                                    <img src="images/32.png" alt="" />
                <h3>Sign Up today</h3> <br>
                <a href="cussignup.php" style="background:#7DD2DB; color: white; padding: 10px">As Customer</a>
                <a href="pharsignup.php" style="background:#7DD2DB; color: white; padding: 10px">As Pharmacist</a>
                <br>
                <br>
                <p style="font-weight: bold; font-size: 15px;">Sign Up to get access all the medicine and order !!</p>
                            </div>

                </div>
    </div>

  <div class="container row" style="width: 103%; background: #1a1a1ae6; margin-top: -30px;">
                            <div class="col-md-12 text-center" style="margin-top:30px;padding-bottom:20px;">
```

```
                <p>Not a registered user. Please Sign Up...</p>
                <button type="submit" class="btn btn-success">  </button>
                <button type="submit" class="btn btn-success"></button>
                <a href="cussignup.html">As Customer</a>

        </div>
-->
</body>
</html>
```

LOGIN.PHP

```
<?php
   session_start();
?>
<!DOCTYPE html>
<!--[if lt IE 7]>      <html class="no-js lt-ie9 lt-ie8 lt-ie7"> <![endif]-->
<!--[if IE 7]>         <html class="no-js lt-ie9 lt-ie8"> <![endif]-->
<!--[if IE 8]>         <html class="no-js lt-ie9"> <![endif]-->
<!--[if gt IE 8]><!--> <html class="no-js"> <!--<![endif]-->
<html lang="en-US">
<head>
 <meta charset="UTF-8">
 <meta http-equiv="X-UA-Compatible" content="IE=edge">
 <meta name="keywords" content="..... " />
 <meta name="description" content="..... " />
 <meta name="viewport" content="width=device-width, initial-scale=1, maximum-
scale=1" />
 <link rel="shortcut icon" type="image/x-icon"
href="favicon.ico ..... " />
 <link rel="apple-touch-icon" type="image/x-icon" href="apple-touch-
icon.png ..... " />
 <title>Medilink</title>
 <link rel="stylesheet" type="text/css" href="css/font-awesome.min.css" media="all" />
 <link rel="stylesheet" type="text/css" href="css/normalize.css" media="all" />
 <link rel="stylesheet" type="text/css" href="css/bootstrap.css" media="all" />
 <link rel="stylesheet" type="text/css" href="style.css" media="all" />
 <link rel="shortcut icon" href="img/Graphicloads-Medical-Health-Medicine-box-
2.ico">
 <script type="text/javascript" src="js/modernizr.js"></script>
 <script type="text/javascript" src="js/jquery.js"></script>
 <script type="text/javascript" src="js/bootstrap.js"></script>
```

```
        ackground-size:
        cover; background-
        size: cover;
  }
    </style>
</head>


<body class="cus">
<div class="header-area" style="background: rgba(58, 186, 201, 0.66);">
        <div class="header-top">
<!--            <img src="img/client-1295901_960_720.png" style="max-height: 5%;max-
width: 5%;margin-left: 48%;opacity:1.0;"> <h1 style="text-align: center;color:
black">Medicine Guide</h1>-->
                <div class="container">
                        <div class="logo col-md-3">
                                <img src="images/logo1.png" alt="" />
                        </div>
                        <div class="menu col-md-7">
                                <ul class="list-unstyled list-inline pull-right">


                                </ul>
                        </div>

                </div>
        </div>


</div>

        <div class="login">

<!--            <img src="img/drug-icon-2316244_640.png"  height="160" width="160">
<br>-->
        <br>
        <br>
        <br>

                <form class="col-md-4 col-sm-offset-4 text-center" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>" method="post" style="margin:
2%;background-color: rgba(80, 173, 150, 0.3);border: 1px #e3e8ef;border-radius: 5%;
opacity:0.8;filter: alpha(opacity=60);text-align: center;margin-left: 35%;padding-top:
2%;padding-bottom: 2%;box-shadow: 5px 10px #989ba0;">
```

```
                    <div class="form-group">
                        <label for="pwd" style="font-weight: bold;color:
#000000;">Password:</label>
                        <input type="password" class="form-control" id="pwd"
name="upass" style="width:50%;margin-left: 24%" required>
                    </div>



                    <button type="submit" class="btn btn-default" style="font-weight:
bold;color: #000000;">Login</button>
                    <br>
                    <br>
                    <label style="font-weight: bold;color: #000000;">Don't have an
account? Sign Up!</label>
                    <br>
                    <a href="cussignup.php" style="font-weight: bold;color: blue;">As
Customer</a>
                    <br>
                    <a href="pharsignup.php" style="font-weight: bold;color: blue;">As
Pharmacist</a>
                </form>
        <?php
            if ($_SERVER["REQUEST_METHOD"] == "POST")
            {
                $_SESSION["uname"]= $_POST["uname"];
                $_SESSION["upass"]= $_POST["upass"];
                $username = $_POST["uname"];
                $password = $_POST["upass"];
                // Connect to the database
                    $con=mysqli_connect("localhost","root","");
                    // Make sure we connected successfully
                    if(! $con)
                    {
                        die('Connection Failed'.mysql_error());
                    }

                    // Select the database to use
                    mysqli_select_db($con,'medicineguide');

                    $result = mysqli_query($con,"SELECT * FROM customerlogin where
cuUserName='".$username."' and cuPassword='".$password."';") or die("Failed to
Login".mysql_error());
```

```
                else
                {

                    $result = mysqli_query($con,"SELECT * FROM pharmacylogin where
phUserName='".$username."' and phPassword='".$password."';") or die("Failed to
Login".mysql_error());
                    $row = mysqli_fetch_array($result);
                    if($row["phUserName"]==$username &&
 $row["phPassword"]==$password)
                    {
                        header("Location:pharprofile.php");
                    }
                    else
                    {
                      $result = mysqli_query($con,"SELECT * FROM admin where
aUserName='".$username."' and aPassword='".$password."';") or die("Failed to
Login".mysql_error());
                       $row = mysqli_fetch_array($result);
                       if($row["aUserName"]==$username &&
$row["aPassword"]==$password)
                       {
                           header("Location:adminhome.php");
                       }
                       else
                       {
                          $result = mysqli_query($con,"SELECT * FROM delivery where
deName='".$username."' and dePass='".$password."';") or die("Failed to
Login".mysql_error());
                          $row = mysqli_fetch_array($result);
                          if($row["deName"]==$username  &&
$row["dePass"]==$password)
                          {
                              header("Location:deliveryhome.php");
                           }
                          //header("Location:index.php");
                          $message = "Incorrect username or password! Or no such account
exists!";
                          echo "<script type='text/javascript'>alert('$message');</script>";
                       }
                    }
                }
            }
        ?>
```

```
<!--    <div class="signup col-sm-offset-8 col-md-8">
            <p>Not a registered user. Please Sign Up...</p>
            <button type="submit" class="btn btn-success">  </button>
            <button type="submit" class="btn btn-success"></button>
            <a href="cussignup.html">As Customer</a>

        </div>

 -->


</body>
</html>
```

PHARSIGNUP.PHP

```
<!DOCTYPE html>
<!--[if lt IE 7]>      <html class="no-js lt-ie9 lt-ie8 lt-ie7"> <![endif]-->
<!--[if IE 7]>         <html class="no-js lt-ie9 lt-ie8"> <![endif]-->
<!--[if IE 8]>         <html class="no-js lt-ie9"> <![endif]-->
<!--[if gt IE 8]><!--> <html class="no-js"> <!--<![endif]-->
<html lang="en-US">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="keywords" content="..... " />
<meta name="description" content="..... " />
<meta name="viewport" content="width=device-width, initial-scale=1, maximum-
scale=1" />
<link rel="shortcut icon" type="image/x-icon"
href="favicon.ico ....." />
<link rel="apple-touch-icon" type="image/x-icon" href="apple-touch-
icon.png ..... " />
<title>Pharmacy Signup</title>
<link rel="stylesheet" type="text/css" href="css/font-awesome.min.css" media="all" />
<link rel="stylesheet" type="text/css" href="css/normalize.css" media="all" />
<link rel="stylesheet" type="text/css" href="css/bootstrap.css" media="all" />
<link rel="stylesheet" type="text/css" href="style.css" media="all" />
<link rel="shortcut icon" href="img/Graphicloads-Medical-Health-Medicine-box-
2.ico">
<script type="text/javascript" src="js/modernizr.js"></script>
<script type="text/javascript" src="js/jquery.js"></script>
<script type="text/javascript" src="js/bootstrap.js"></script>
</head>
```

```
            <div class="header-top">
    <!--            <img src="img/.png" style="max-height: 5%;max-width: 5%;margin-left:
48%;opacity:1.0;"> <h1 style="text-align: center;color: black">Medicine Guide</h1>-->
                        <div class="container">
                                <div class="logo col-md-3">
                                        <img src="images/logo1.png" alt="" />
                                </div>
                                <div class="menu col-md-7">
                                        <ul class="list-unstyled list-inline pull-right">
                                                <li><a href="cussignup.php"
style="color:white;">Customer SignUp</a></li>
    <!--                                                <li><a href="pharsignup.php"
style="color:white;">Pharmacy SignUp</a></li>-->
                                                <li><a href="login.php"
style="color:white;">Login</a></li>

                                        </ul>
                                </div>

                        </div>
            </div>


    </div>

    <div class="main-area">




            <div class="">
                    <form class="col-md-4 col-sm-offset-4 text-center" style="margin:
2%;background-color: #e3e8ef;border: 1px #e3e8ef;border-radius: 5%; opacity:0.9;filter:
alpha(opacity=60);text-align: center;margin-left: 35%;padding-top: 2%;padding-bottom:
2%;box-shadow: 5px 10px #989ba0;" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>" method="post" >
                      <div class="form-group center">
                                <label for="user" style="font-weight: bold;color:
#000000;">Pharmacy Name:</label>
                                <input type="text" class="form-control" id="user"
name="phuname" style="width:50%;margin-left: 24%" required>
                      </div>
                      <div class="form-group center">
```

```
                        <input type="password" class="form-control" id="pwd"
name="phpass" style="width:50%;margin-left: 24%" required>
                </div>
                        <div class="form-group">
                                <label for="mbl" style="font-weight: bold;color:
#000000;">Mobile:</label>
                                <input type="text" class="form-control" id="mbl" pattern="[0-
1]{2}[0-9]{9}" name="phmobile" style="width:50%;margin-left: 24%" required>
                        </div>
                        <div class="form-group">
                                <label for="adrs" style="font-weight: bold;color:
#000000;">Address:</label>
                                <input type="text" class="form-control" id="adrs"
name="phaddress" style="width:50%;margin-left: 24%" required>
                        </div>
                <div class="form-group">
                                <label for="region" style="font-weight: bold;color:
#000000;">Region:</label>
                                    <select name="region">
                    <option value="Mirpur">Mirpur</option>
                    <option value="Uttara">Uttara</option>
                    <option value="Dhanmondi">Dhanmondi</option>
                    <option value="Bashundhara">Bashundhara</option>
                  </select>
                        </div>


                        <button type="submit" class="btn btn-default">Sign Up!</button>
                <br>
                <br>
                <a href="index.php">Go back to Login!</a>
                        </form>
                        <?php

               if($_SERVER["REQUEST_METHOD"] == "POST"){
                  $phName=$_POST["phuname"];
               $phPassword=$_POST["phpass"];
               $phEmail=$_POST["phemail"];
               $phMobile=$_POST["phmobile"];
               $phAddress=$_POST["phaddress"];
                  $selected_val = $_POST['region'];  // Storing Selected Value In Variable

               $conn=mysqli_connect("localhost","root","","medicineguide");
```

```
            $sql1="insert into pharmacy(pRegion,phMobile,phAddress,pName,pId)
values('".$selected_val."', '".$phMobile."','".$phAddress."', '".$phName."',
LAST_INSERT_ID())";
          $result= mysqli_query($conn,$sql)or die(mysqli_error($conn));
            $result1= mysqli_query($conn,$sql1)or die(mysqli_error($conn));
              if($result && $result1){
                    //header("Location:index.php");
                  $message = "Successfully registered!";
                   echo "<script type='text/javascript'>alert('$message');</script>";

              }
              else
              {

                  $message = "Registration Unsuccessful!";
                   echo "<script type='text/javascript'>alert('$message');</script>";
              }
          }
          ?>

          </div>

          <div class="signup col-sm-offset-8 col-md-8">

          </div>
    </div>
    </body>
    </html>
```

APPENDIX B

SAMPLE OUTPUT

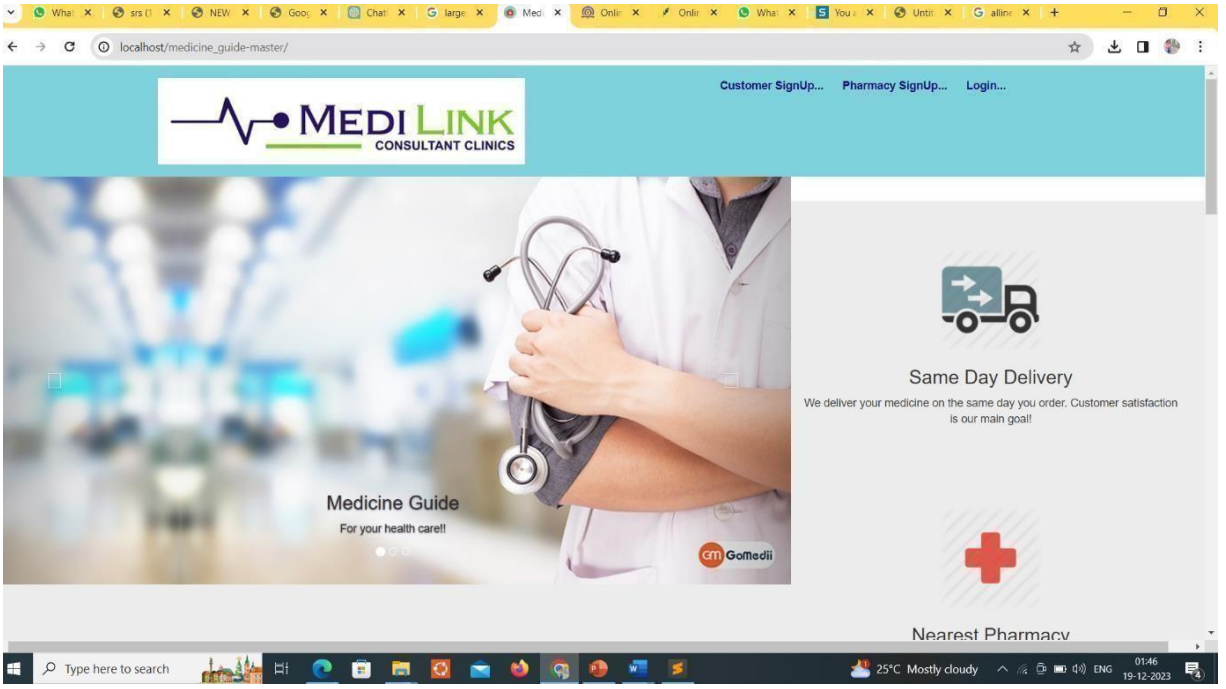


Fig.B.1 Home page

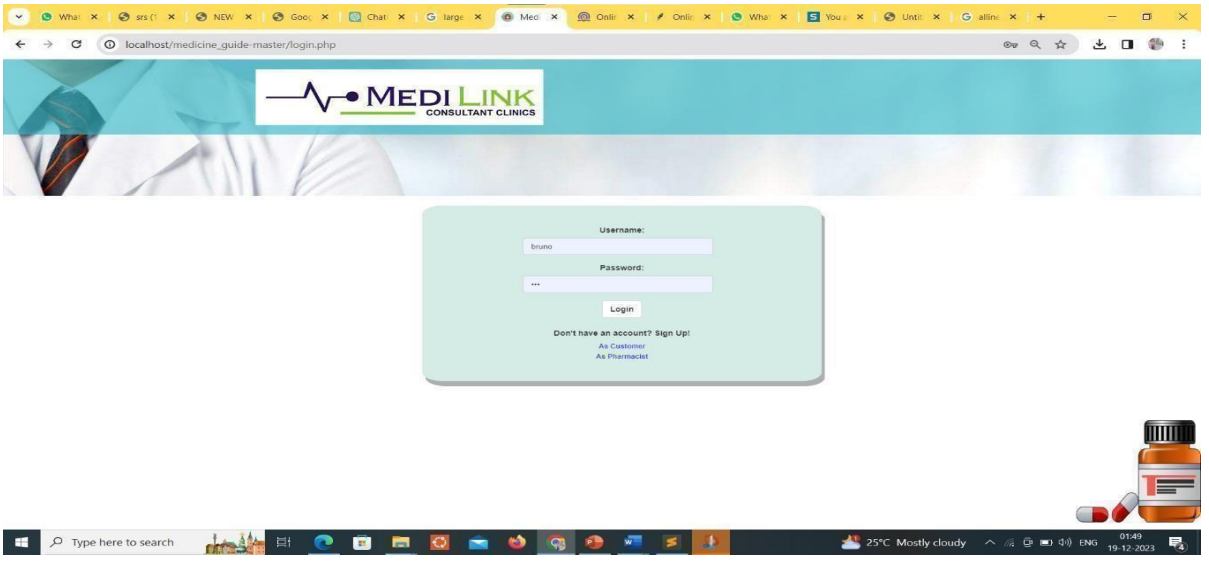


Fig.B.2 Login page

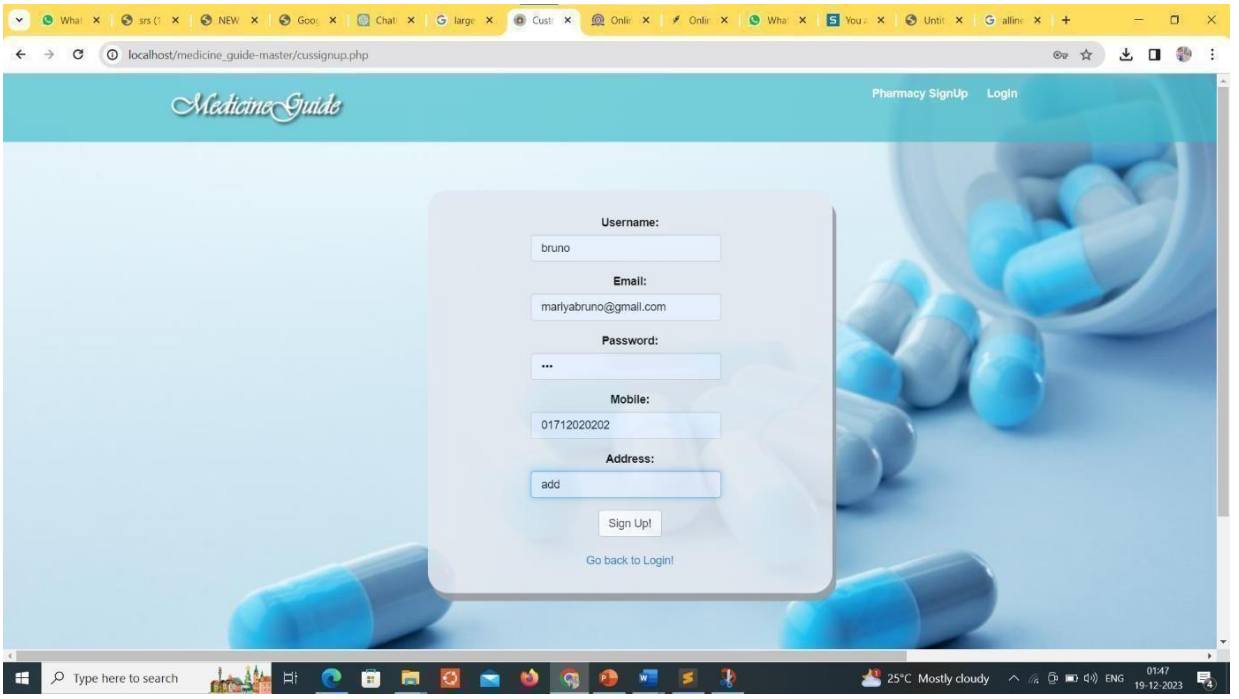


Fig.B.3 Patient Signup page

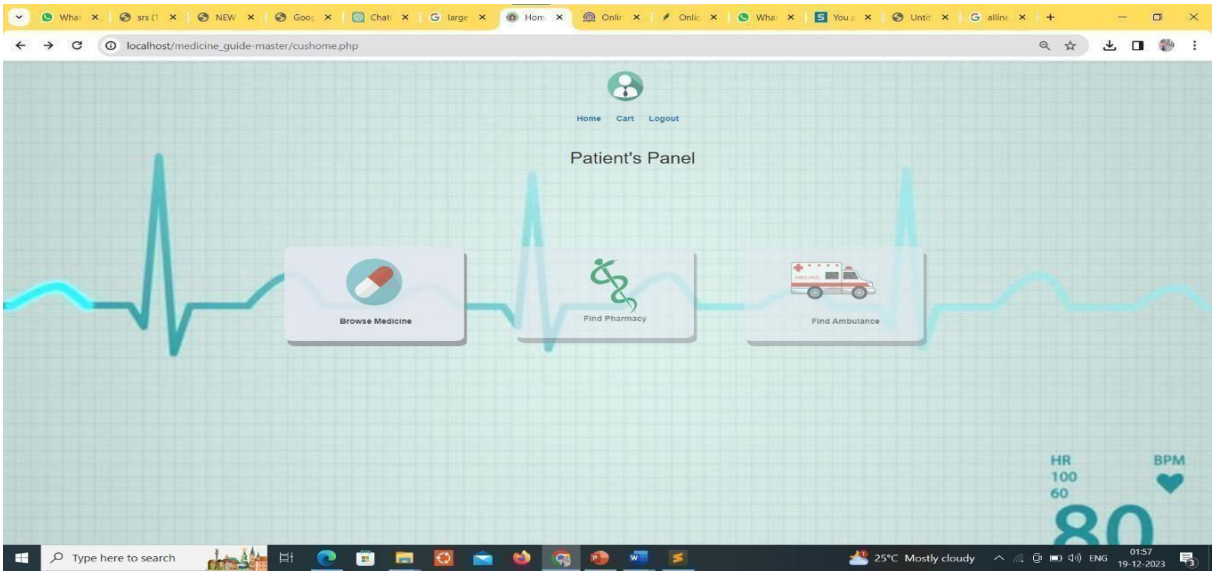


Fig.B.4 Dashboard

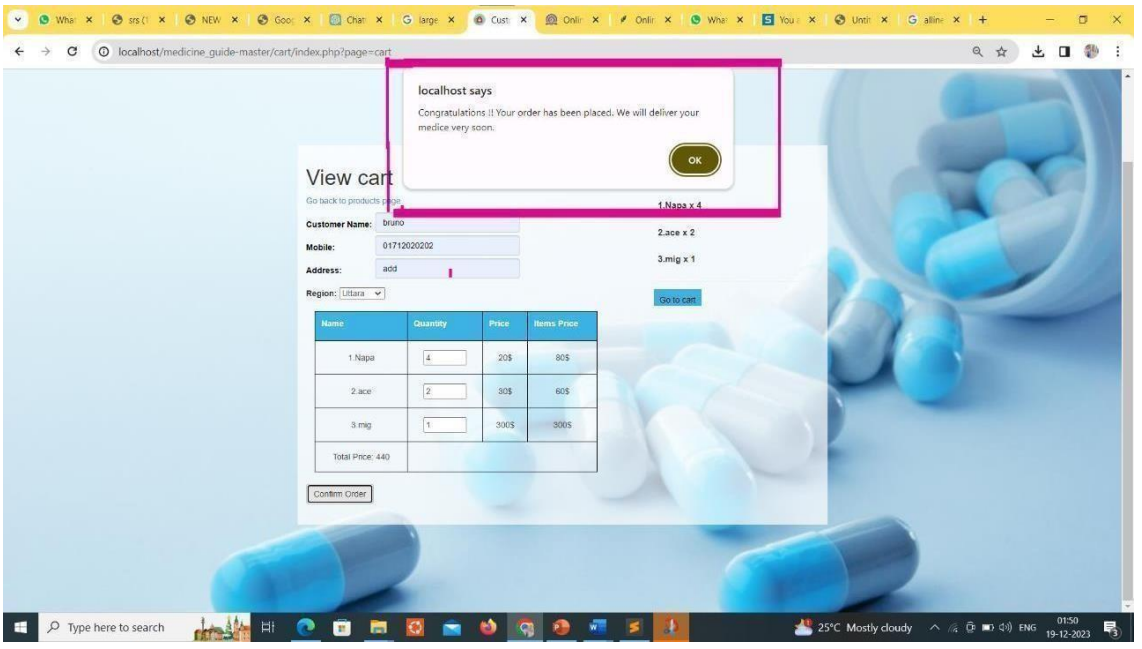


Fig.B.5 Ordered Succesfully

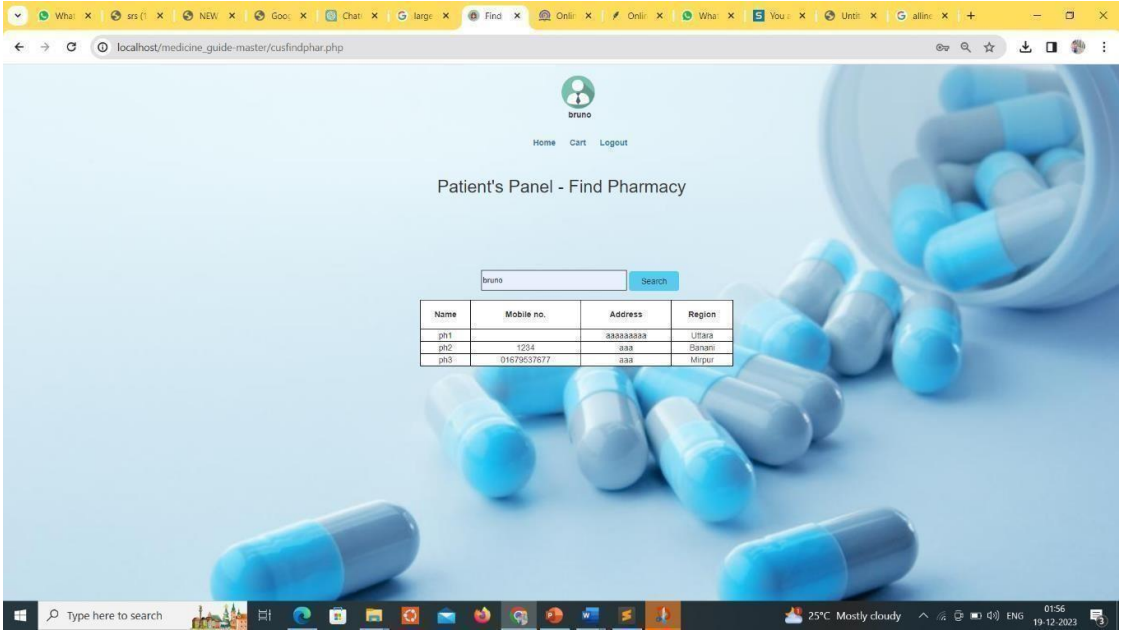


Fig.B.6 Find Pharmacy

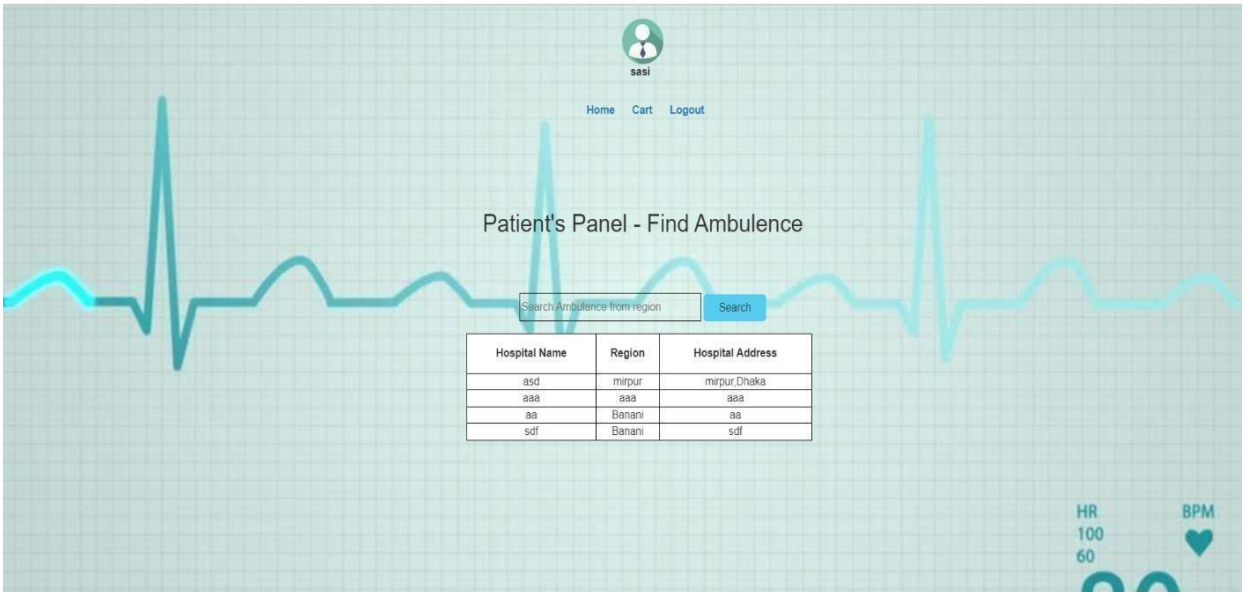


Fig.B.7 Find Ambulance

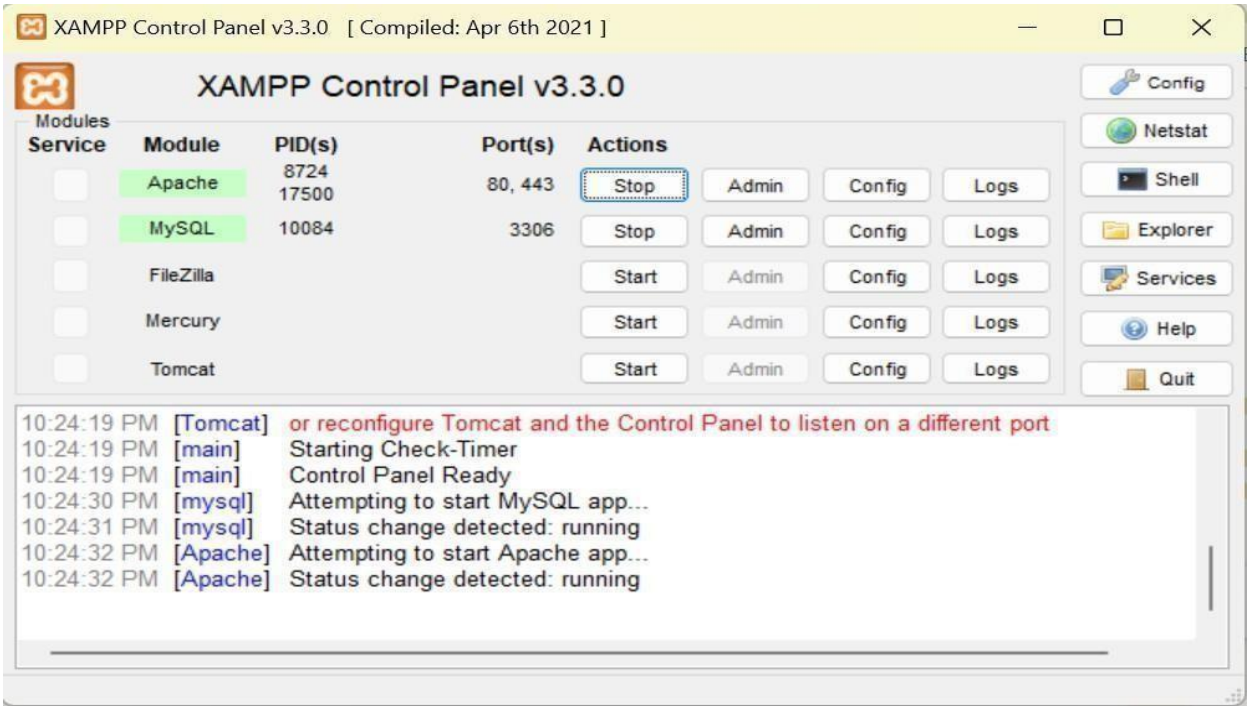


Fig.B.8 Starting XAMP Server

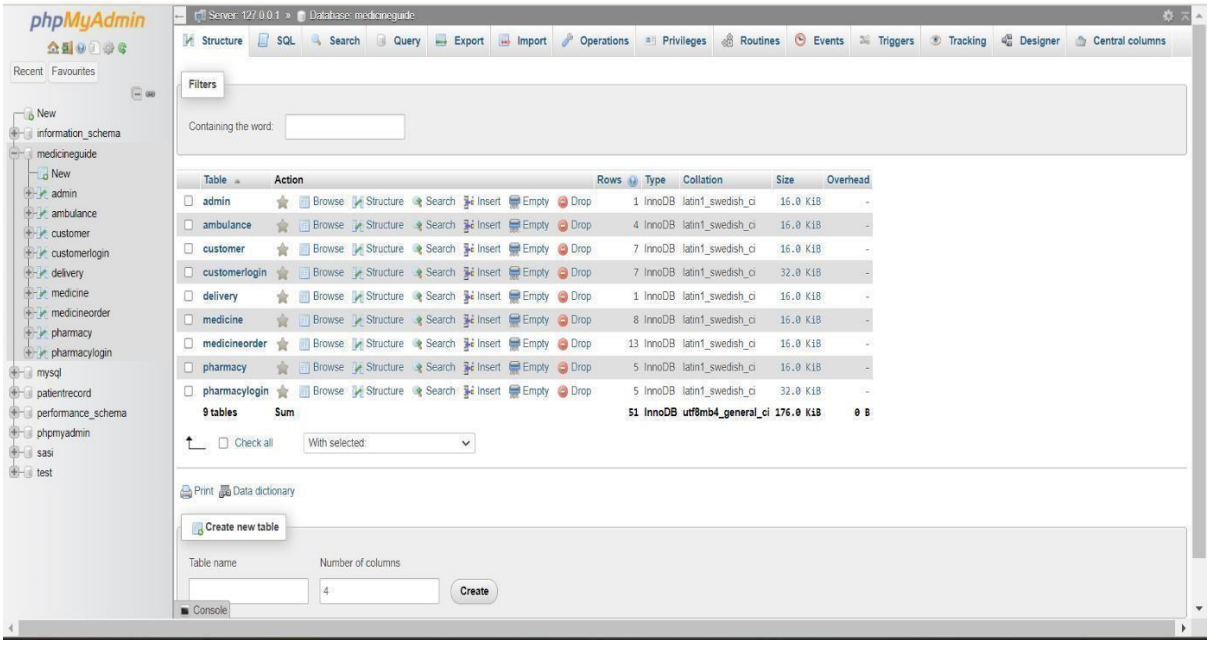


Fig.B.9 Medlink Database

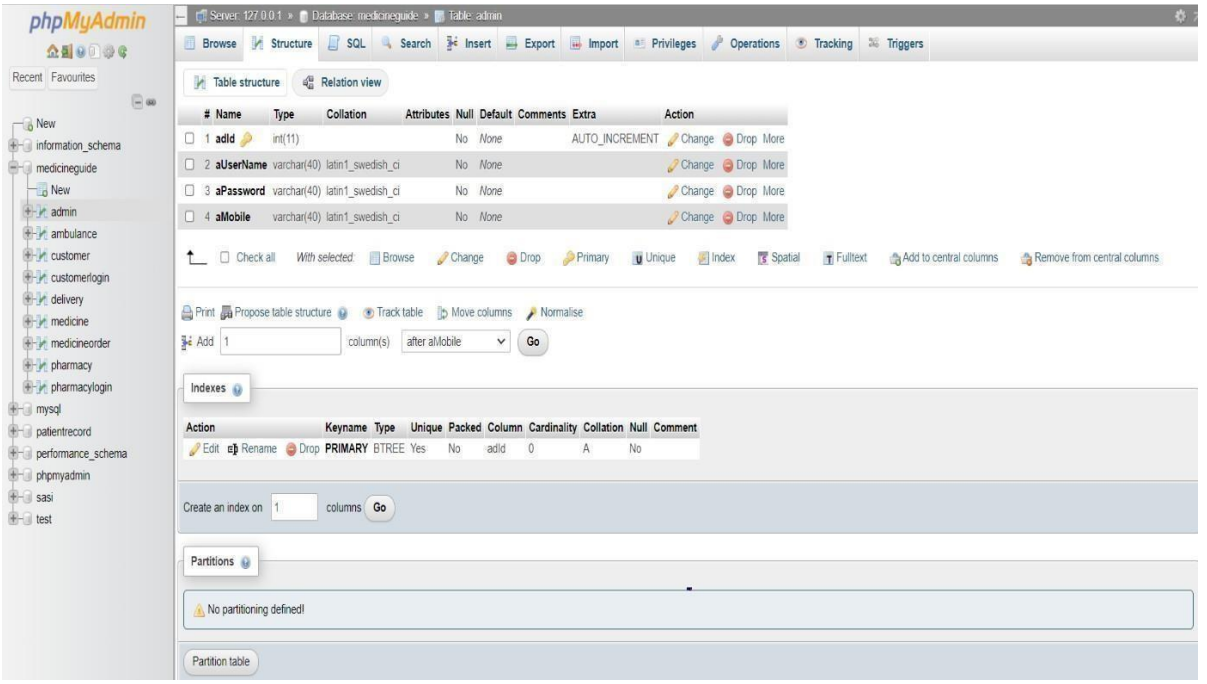


Fig.B.10 Admin Database sector