



PROJECT TITLE

Website

" UPHARMA "

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**Submitted in Partial Fulfillment of the Requirements for bachelor's
degree in computer science.**

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DEDICATIONS

It is hereby certified that this subject, which is now the oldest for assessment in the program of study leading to the award of a Bachelor of Science in (Computer Science) This project is the result of special efforts and is presented in any part or all appropriate to any grade or occasion in any other institution. I confirm that all sources used in this project have been acknowledged and referenced accordingly.

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ABSTRACT

This graduation project presents the design and development of "UPARMA," a comprehensive pharmacy management system aimed at streamlining pharmaceutical operations and enhancing user experience for both administrators and pharmacists. The project leverages modern web technologies to deliver an intuitive and secure platform that meets the operational needs of a pharmacy while promoting efficiency and user satisfaction.

The UPARMA system features two distinct views tailored to its primary users: administrators and pharmacists. User authentication is facilitated through a centralized registration table in the database, where information such as username, email, password, and role is securely stored. Administrators can add pharmacists by integrating their first names from the pharmacist table as usernames, along with email, password, and role details, into the registration table. Depending on the user's role, the system dynamically displays either the admin or pharmacist dashboard upon login.

Key components of the dashboard include:

- **Informational Cards:** Displaying vital statistics such as the number of clients, pharmacists, medicines, suppliers, expired medicines, and out-of-stock medicines.
- **Blog Section:** Featuring updates and articles relevant to pharmacy management.
- **Data Tables:** Highlighting top-rated medicines, recently added clients, and other critical data.
- **Charts:** Enabling sales tracking on a weekly basis.

Clients Management

The platform provides comprehensive client management tools, allowing administrators and pharmacists to add new clients, view detailed records, and manage client data through an intuitive table interface. The client table includes attributes such as full name, date of birth, allergies, medical conditions, prescribed medicines, contact information, and actions for editing or deleting records. Pagination ensures efficient navigation through client records.

Medicines Management

Administrators can manage medicines by adding new entries and updating existing ones. The medicines table includes details such as drug name, price, quantity, production and expiration dates, drug information, side effects, medical conditions treated, ratings, dosage forms, and strengths. For pharmacists, the medicines table is read-only, ensuring they can view but not modify data. Pagination is implemented to handle large datasets effectively.

Pharmacist and Supplier Management

The system allows administrators to manage pharmacists and suppliers efficiently:

- **Pharmacist Management:** Adding new pharmacists, viewing and editing detailed records, and tracking employment status, shifts, salaries, and other relevant data.
- **Supplier Management:** Recording supplier details, tracking orders, and monitoring order statuses. Pharmacists can access supplier information in a read-only format.

Stock and Purchasing

A dynamic stock page enables both admins and pharmacists to monitor and manage medicine inventory. Users can adjust quantities, add medicines to a cart, and process purchases. The cart includes options for adding discounts or taxes, generating invoices, and maintaining purchase history in the database.

Additional Features

- **Notes Hub:** A collaborative section for users to create, complete, or delete notes, stored and managed in the database.
- **FAQ and Help Sections:** Providing guidance and tutorials to help users navigate the system.
- **Notifications:** Alerting users to critical events, such as low stock or expired medicines.
- **Contact Form:** Facilitating communication with administrators via email.

By combining robust functionality with a user-friendly interface, UPARMA simplifies pharmacy operations and fosters better management practices. This project demonstrates the potential of technology to transform pharmaceutical management, ensuring accurate record-keeping, efficient workflows, and enhanced service delivery.

CHAPTER 1

1.1 Project motivation

The healthcare industry is continually evolving, with technology playing a pivotal role in improving patient care, streamlining operations, and enhancing the accessibility of medical resources. The development of a Pharmacy Management System (PMS) stems from the need to bridge gaps in healthcare delivery, particularly in pharmaceutical services. Motivated by the desire to enhance operational efficiency, ensure accurate medicine management, and improve patient outcomes, this project aims to create an innovative and user-friendly platform.

The system seeks to modernize how pharmacies manage inventory, track prescriptions, and interact with clients. By leveraging technologies like HTML, CSS, Python, and JavaScript, the project will demonstrate the practical application of software engineering principles in solving real-world challenges. This endeavour also serves as a graduation project, showcasing technical proficiency and problem-solving skills while contributing to the advancement of healthcare services.

1.2 Problem Statement

Pharmacies face several challenges in delivering efficient and accurate services. These include:

- Inefficient inventory management leading to shortages or overstocking of medicines.
- Manual prescription handling, which increases the risk of errors.
- Lack of a centralized system for managing patient and supplier data.
- Inadequate privacy controls for sensitive patient information.

These issues hinder the ability of pharmacies to provide timely and reliable services. The Pharmacy Management System addresses these challenges by offering a comprehensive solution. It will include dashboards for managers, pharmacists, and suppliers, facilitate seamless inventory management, and provide secure access to patient records, thereby enhancing overall efficiency and service quality.

1.3 Project Aim and Objectives

Aim

To develop a robust and efficient Pharmacy Management System that enhances pharmaceutical operations, ensures accurate record-keeping, and improves client satisfaction.

Objectives

1. **Streamline Pharmacy Operations:** Create a centralized platform for managing inventory, prescriptions, and supplier data.
2. **Enhance Data Accuracy and Security:** Implement secure mechanisms to manage sensitive patient and medicine information.
3. **Improve Accessibility:** Design user-friendly interfaces for pharmacists, suppliers, and managers to interact with the system efficiently.
4. **Support Decision-Making:** Provide insightful analytics through dashboards for better inventory and operational management.
5. **Facilitate Client Interaction:** Allow clients to view medicine information and their prescription history while maintaining privacy.

1.4 Scope of the Project

The Pharmacy Management System is designed for medium-sized pharmacies. It includes:

- A **medicine inventory management system** to track stock levels and expiration dates.
- A **supplier management system** to log supplier details and orders.
- **Client and pharmacist modules** for prescription tracking and task allocation.
- A **secure login system** with role-based access to protect sensitive information.

The system is intended for deployment in local pharmacies but is scalable for integration into larger networks.

1.5 Project Hardware and Software Requirements

System Stakeholders

- **Pharmacists:** Manage prescriptions and dispense medicines.
- **Managers/Admins:** Oversee inventory, supplier relations, and system updates.
- **Suppliers:** Provide medicines and other pharmacy essentials.

Software Requirements

Component	Requirement
Component	Requirement
Operating System	Windows, Mac, Linux
Development Tools	Visual Studio Code
Programming Languages	PHP, JavaScript
Frameworks/Libraries	Bootstrap

Table 1.1: Software Requirements

Hardware Requirements

Component	Specification
Device	Laptop/PC with internet access
Server	Local or online server

Table 1.2: Hardware Requirements

1.6 Project Limitations

- The system will primarily serve pharmacies within a local network.
- Advanced analytics features may be limited in the initial deployment.
- Real-time integration with external systems, such as insurance databases, is not included.

1.7 Project Expected Output

The Pharmacy Management System will provide:

- Efficient inventory management, reducing shortages and overstocking.
- A secure platform for storing and accessing sensitive patient and pharmacy data.
- Intuitive dashboards for easy navigation and decision-making.
- Enhanced client satisfaction through improved service delivery and data privacy.

1.8 Project Schedule

Task	Timeline
Searching for idea and planning	Month 1
Learning and using Python and Flask	Month 2
Working on Front-End and Back-End Development (PHP)	Month 3
Medical exams (project paused)	2 weeks in Month 3
Backend refinement and documentation	Month 4

Table 1.3: Project Schedule

CHAPTER 2

2.1 Introduction

This chapter explores related existing systems with similar ideas to the Pharmacy Management System. It provides an overview of their features, highlights the common issues faced by these systems, and proposes solutions to address these problems. By analysing existing systems, we aim to identify gaps and improve upon them to deliver a more efficient and user-friendly platform.

2.2 Existing Systems

Walgreens Pharmacy System

Walgreens is a renowned pharmacy chain that leverages technology to streamline its operations. Its system includes an online platform for prescription management, medication delivery, and health consultations. Walgreens' system enables customers to order medications, schedule refills, and access health services through a user-friendly interface. The integration of a robust mobile application enhances convenience, allowing users to manage their prescriptions on the go.

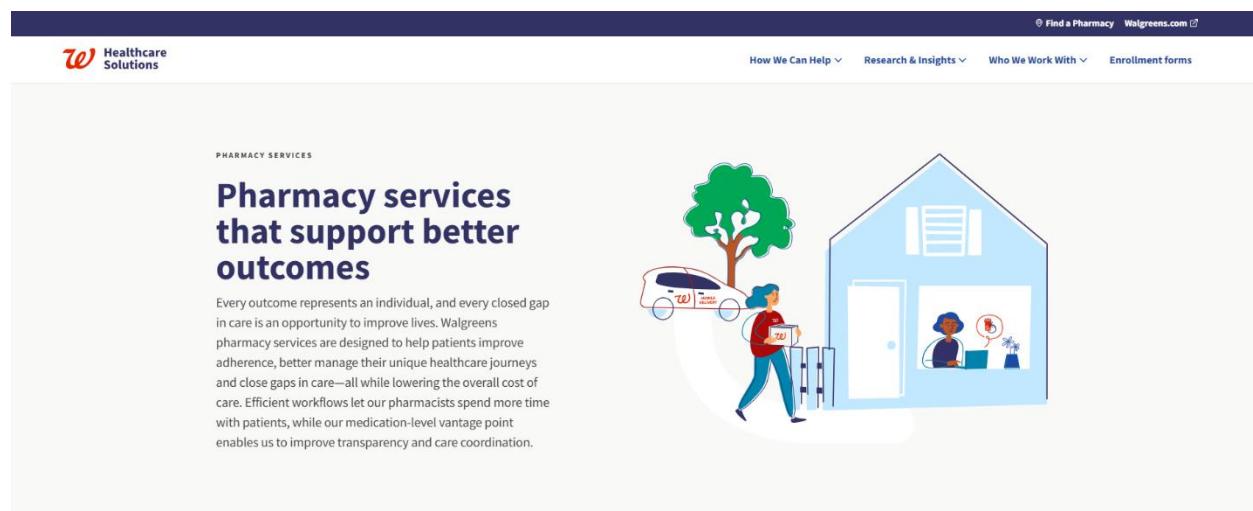


Figure 2.1: Walgreens Online System Interface

CVS Pharmacy System

CVS Pharmacy has developed a comprehensive management system that supports its retail and healthcare services. The system features inventory tracking, prescription refills, and customer

loyalty programs. CVS also incorporates telemedicine options, enabling patients to consult with healthcare professionals online. This system ensures seamless interactions between patients and pharmacists, enhancing service quality.

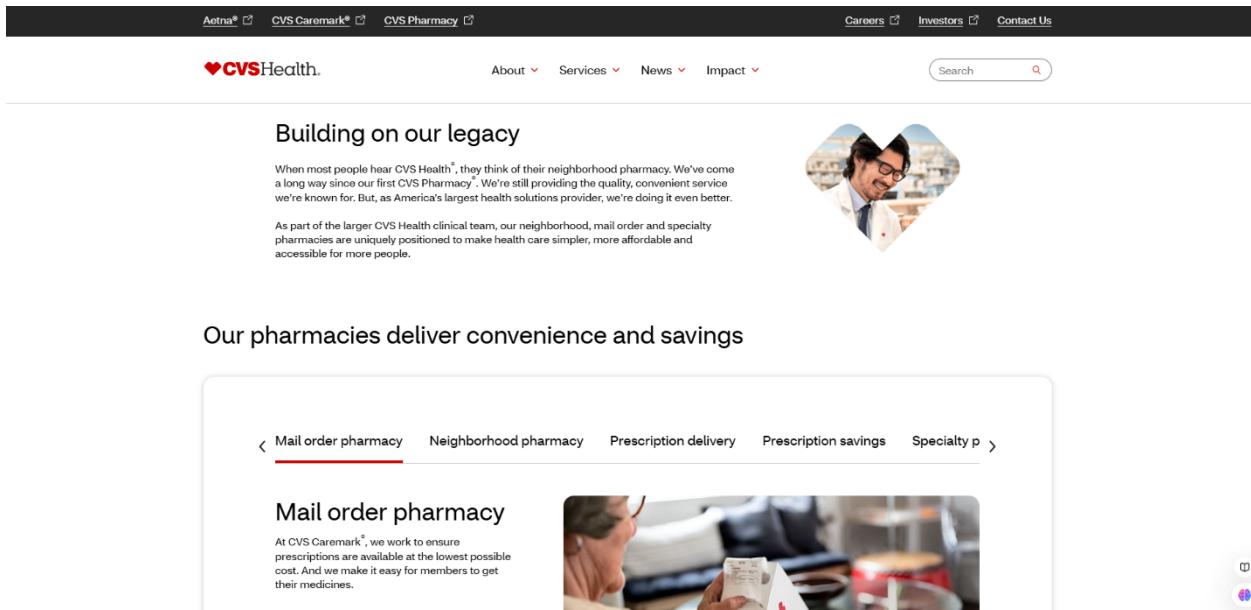


Figure 2.2: CVS Pharmacy Dashboard

2.3 Overall Problems of Existing Systems

While existing pharmacy management systems like Walgreens and CVS offer extensive features, they also encounter several challenges:

1. **High Costs:** The systems are often expensive to implement and maintain, making them inaccessible to small and medium-sized pharmacies.
2. **Limited Customization:** Many systems are designed for large-scale operations, with limited flexibility to cater to specific needs of smaller establishments.
3. **Privacy Concerns:** Ensuring the security of sensitive patient and prescription data is a significant challenge.
4. **Accessibility Issues:** Not all platforms are optimized for diverse user groups, especially in regions with limited internet connectivity.

2.4 Overall Solution Approach

To address these challenges, the Pharmacy Management System proposed in this project focuses on:

1. **Cost-Effectiveness:** Using open-source tools like PHP and MySQL to minimize development and maintenance costs.
2. **Customizability:** Designing a flexible system that can be tailored to the specific requirements of pharmacies.
3. **Enhanced Privacy:** Implementing robust security measures, such as role-based access controls, to protect sensitive data.
4. **Accessibility:** Ensuring the platform is lightweight and optimized for various devices and internet speeds, catering to users in underserved regions.

2.5 Summary

This chapter reviewed existing pharmacy management systems, highlighting their strengths and limitations. By identifying common challenges, such as high costs, limited customization, and privacy concerns, we proposed targeted solutions to enhance our Pharmacy Management System. This project aims to bridge the gaps in existing systems, offering a more efficient, secure, and accessible solution for modern pharmacy operations.

CHAPTER 3

3.1 Introduction

Requirements Engineering (RE): is the process of establishing the services that the user requires from the system and the constraints that need to be adhered to. In the case of the UPHARMA website, this process defines the key functionalities required by administrators, pharmacists, and clients, as well as the constraints around data security, usability, and performance.

Requirements Analysis (RA): is the process of determining the specific needs and refining the system's functionality. It ensures that the website meets the user expectations and adapts to any changes in the website during development. This section outlines the core system requirements for UPHARMA, from feasibility studies to functional and non-functional specifications.

3.2 Feasibility Study

A feasibility study evaluates whether the project is worth pursuing and assesses its potential success. It involves assessing technical, operational, and economic factors that will affect the project's viability. The following sub-sections describe the various feasibility aspects of the UPHARMA website.

3.2.1 Technical Feasibility

The UPHARMA website will run on standard web browsers, and can be accessed via an internet connection. The system uses a local database for storing medicine, supplier, client, and purchase data. The website is designed to be scalable and allows for the addition of new features in the future. Future enhancements may include online store integration, mobile and desktop apps, and new features for improving user interaction.

Hardware and software requirements include:

- **Hardware:** Standard computers and mobile devices capable of supporting web browsers and database management systems.

- **Software:** The website runs using a combination of HTML, CSS, JavaScript, PHP, and phpMyAdmin. For future enhancements, tools like PostgreSQL or cloud services can be considered.

3.2.2 Operational Feasibility

The system is designed to be easy to use, with a user-friendly graphical interface (GUI) that does not require any specialized skills. The website's layout ensures that both admins and pharmacists can navigate easily between different sections like inventory, client details, and orders. The interface is designed to be intuitive, with clear instructions, simple navigation. The website is designed to be fully responsive, ensuring it works seamlessly across both mobile and desktop devices. However, there are currently no separate mobile or desktop apps available.

New users, whether administrators or pharmacists, will find it straightforward to use the system, ensuring operational feasibility.

3.2.3 Economic Feasibility

Economic feasibility assesses whether the costs involved in developing and maintaining the UPHARMA website are justified by the expected returns or benefits. The following breakdown covers the development, hardware, and software costs.

Employee	Cost per Hour	Hours	Total Cost
System Analyst	20 JD	15	300 JD
Developer	35 JD	30	1050 JD
Total			1350 JD

Table3.1: Development Costs

Device	Quantity	Price	Specification
Computers	1	600-800	HP Core(TM) i7, 8GB RAM
Mobile	1	210	Samsung Galaxy M13

Table3.2:Hardware Costs

Software	Specification
Microsoft Office	Word, PowerPoint
Canva	Design

VS Code	Frontend & Backend Development
PhpMyAdmin	Database

Table3.3: Software Costs

3.3 Targeted Users

The UPHARMA website serves three distinct user groups:

1. **Admin:** The administrator who manages the entire website, including overseeing pharmacists, medicines, clients, suppliers, products, orders, and reports.
2. **Pharmacists:** A pharmacist who can manage client information, products, and view medicines and supplier details.
3. **User:** A visitor who can view the home page and explore its features, but cannot make purchases or manage inventory.

3.4 Functional Requirements Definition and Specification

The functional requirements for UPHARMA are defined as follows:

Targeted User	Group	Requirement Description
Admin	G1	Create, update, delete and manage pharmacists and their accounts .
Admin	G2	Create, update, delete and manage medicines, suppliers.
Admin/Pharmacist	G3	Create, update, delete and manage clients and notes.
Admin	G4	Manage Stock: add, update, delete products.
Admin/Pharmacist	G5	Manage Stock: add products to purchase invoice [cart]
Admin/Pharmacist	G6	Access FAQ page to view frequently asked questions.
Admin/Pharmacist	G7	Access Help page for support and guidance on using the website.
Visitor[users]	G8	View Home page and its features
Pharmacist	G9	View medicines and suppliers.

Table3.4: Functional Requirements

The admin, visitor, and customer each have a set of unique functionalities associated with their role, ensuring that the system is tailored to their needs.

3.5 Nonfunctional Requirements

Nonfunctional requirements describe the system's operational qualities, such as performance, security, and maintainability.

Non-Functional Requirement	Description
Usability	The website should be easy to use with an intuitive and simple interface.
Testability	The system should allow for comprehensive testing of its components.
Security	Only authorized users should be able to access their respective data.
Maintainability	The system should be easy to update and extend for future needs.
Performance	The website should offer fast and reliable performance at all times.
Flexibility	The system should be adaptable to future changes and requirements.

Table3.5: Nonfunctional Requirements

3.6 Summary

This chapter outlines the comprehensive analysis conducted for the UPHARMA website, including feasibility studies, targeted users, functional and non-functional requirements. The detailed requirements and feasibility assessments ensure that the website meets the needs of admins, pharmacists, and clients while being technically sound, operationally feasible, and economically viable. These analyses will guide the development process, ensuring the system is ready for implementation and future expansion.

Chapter4

4.1 Introduction:

This chapter includes many important figures that describe our website process, it will include context diagram, data flow diagram (DFD), entity relation diagram (ERD), use cases diagrams, sequences diagrams.

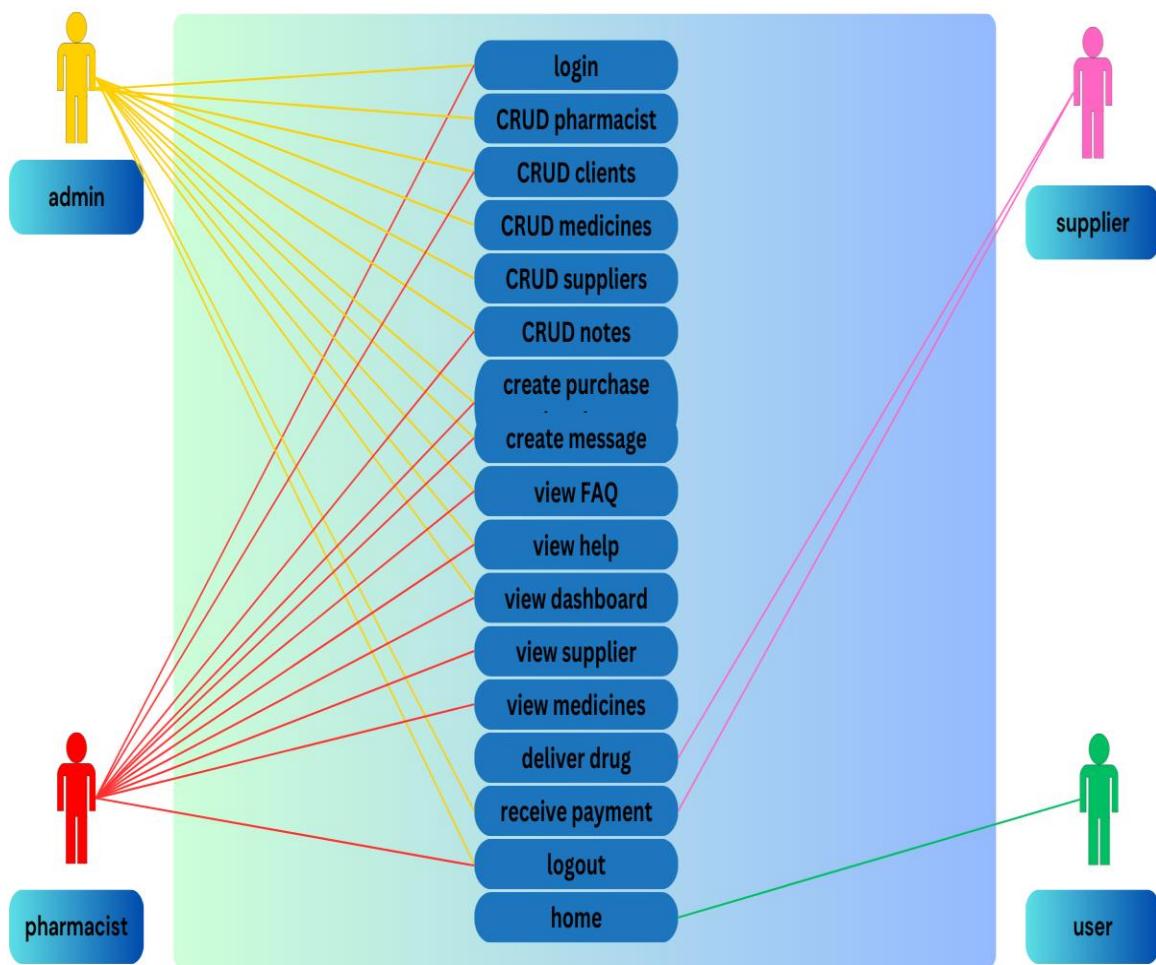


Figure 4.1: UML Use Case Diagram

4.2 UML Use Case Diagram:

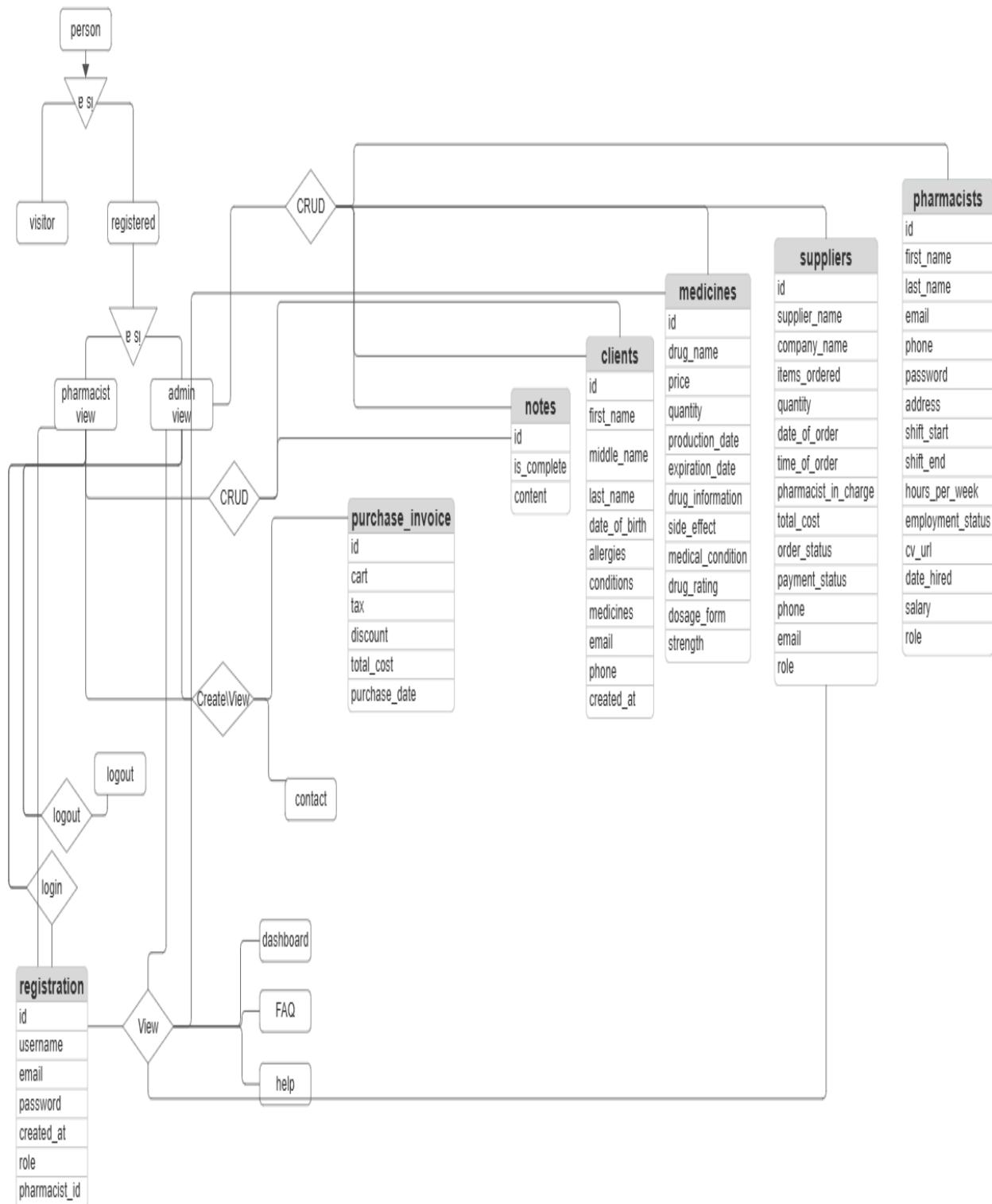


Figure 4.2: EER diagram

4.3 EER Diagram:

CHAPTER 5

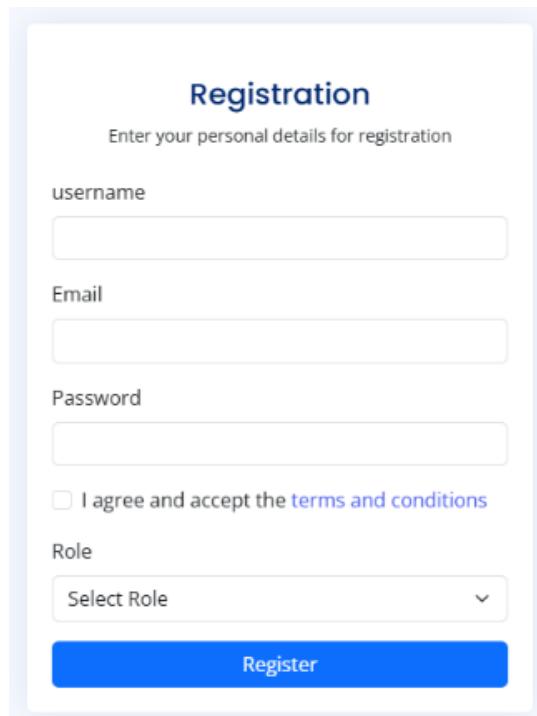
5.1 Introduction

In this chapter, we discuss the implementation of the UPHARMA Pharmacy Management System. Section 5.2 focuses on database implementation, while Section 5.3 highlights the graphical user interface (GUI) implementation. The chapter concludes with a summary in Section 5.4.

5.2 Database Implementation

The UPHARMA Pharmacy Management System operates on a phpMyAdmin server-sided database, chosen for its reliability and robust data management capabilities. The database is used to store and manage all the critical information required for the system's functionality, including user authentication, inventory, client records, and transaction history. PHP is utilized to interact with the database, allowing for seamless data retrieval, insertion, updating, and deletion.

Key tables in the database include:



The image shows a registration form titled "Registration". The form has a light blue header and a white body. It contains fields for "username", "Email", and "Password", each with a corresponding input field. Below these fields is a checkbox labeled "I agree and accept the [terms and conditions](#)". There is also a dropdown menu labeled "Role" with the placeholder "Select Role". At the bottom of the form is a large blue button labeled "Register".

Figure5.1:Registration form

Registration

Enter your personal details for registration

username

Email

Password

I agree and accept the [terms and conditions](#)

Role

Registration

Enter your personal details for registration

username

Email

Password

I agree and accept the [terms and conditions](#)

Role

Figure5.2:Login As Pharmacist

Figure5.3:Login As Administrator

The screenshot shows a registration form titled "Registration". It includes fields for "username" (haneen), "Email" (haneenkhaledkhader2003@gmail.com), and "Password" (represented by a series of dots). A checkbox labeled "I agree and accept the terms and conditions" is checked. A dropdown menu for "Role" is set to "Pharmacist". A large blue "Register" button is at the bottom. To the right, a modal window titled "localhost says" displays the error message "Login failed. Invalid username, password, email, or role." An "OK" button is in the top right corner of the modal. A curved arrow points from the "localhost says" text in the modal back to the "Email" input field on the main form.

Figure 5.4: Error Message for Invalid Login Inputs

Terms and Conditions

Welcome to UPHARMA! These terms and conditions outline the rules and regulations for the use of our website.

1. Acceptance of Terms

By accessing this website, you accept these terms and conditions in full. Do not continue to use this website if you do not agree to all of the terms and conditions stated here.

2. Use of the Website

You agree to use this website only for lawful purposes and in a way that does not infringe on the rights of others or restrict or inhibit their use and enjoyment of this website.

3. Intellectual Property

The content, layout, design, data, and graphics on this website are owned by UPHARMA and are protected by copyright and other intellectual property laws. You may not reproduce or redistribute any material from this website without prior written consent.

4. User Accounts

If you create an account on our website, you are responsible for maintaining the confidentiality of your account and password. You agree to accept responsibility for all activities that occur under your account.

5. Privacy Policy

Your privacy is important to us. Please refer to our [Privacy Policy](#) for details on how we collect, use, and protect your information.

6. Limitation of Liability

UPHARMA will not be held liable for any damages arising from the use of or inability to use this website.

7. Changes to the Terms

We reserve the right to modify these terms and conditions at any time. Changes will be posted on this page, and your continued use of the website constitutes acceptance of the new terms.

8. Contact Us

If you have any questions about these Terms and Conditions, please contact us at support@UPHARMA.com.
Effective Date: December 9, 2024

Figure 5.5: Terms & Conditions

Privacy Policy

Your privacy is important to us. This Privacy Policy outlines how UPHARMA collects, uses, and protects your information.

1. Information We Collect

- Personal Information: Name, email address, phone number, and other details you provide during registration or use of our services.
- Usage Data: Information on how you access and use our website, including IP address, browser type, and pages visited.

2. How We Use Your Information

- To provide and maintain our services.
- To communicate with you regarding updates, promotions, or customer support.
- To improve our website and user experience.

3. Sharing Your Information

We do not sell, trade, or rent your personal information to others. We may share information with third-party service providers to help us operate our website or provide services on our behalf.

4. Data Security

We implement security measures to protect your personal information. However, no method of transmission over the internet or electronic storage is 100% secure, and we cannot guarantee absolute security.

5. Cookies

Our website uses cookies to enhance your experience. You can choose to disable cookies in your browser settings, but some features of the website may not function properly.

6. Third-Party Links

Our website may contain links to third-party websites. We are not responsible for the privacy practices of these websites and encourage you to read their privacy policies.

7. Changes to This Privacy Policy

We may update this Privacy Policy from time to time. Any changes will be posted on this page, and the updated policy will include the effective date.

8. Contact Us

Figure 5.6: Privacy Policy

Dashboard

#	Medicine Name	Price	Quantity
1	Paracetamol	2.50	0
2	Amoxicillin	5.00	23
3	omeprazole	4.50	85
4	Vitamin C	2.00	300
5	Vitamin D	1.80	215

Figure 5.7: dashboard Page

Dashboard

#	Medicine Name	Price	Quantity
1	Paracetamol	2.50	0
2	Amoxicillin	5.00	23
3	omeprazole	4.50	85
4	Vitamin C	2.00	300
5	Vitamin D	1.80	215

Figure 5.8: dashboard Page

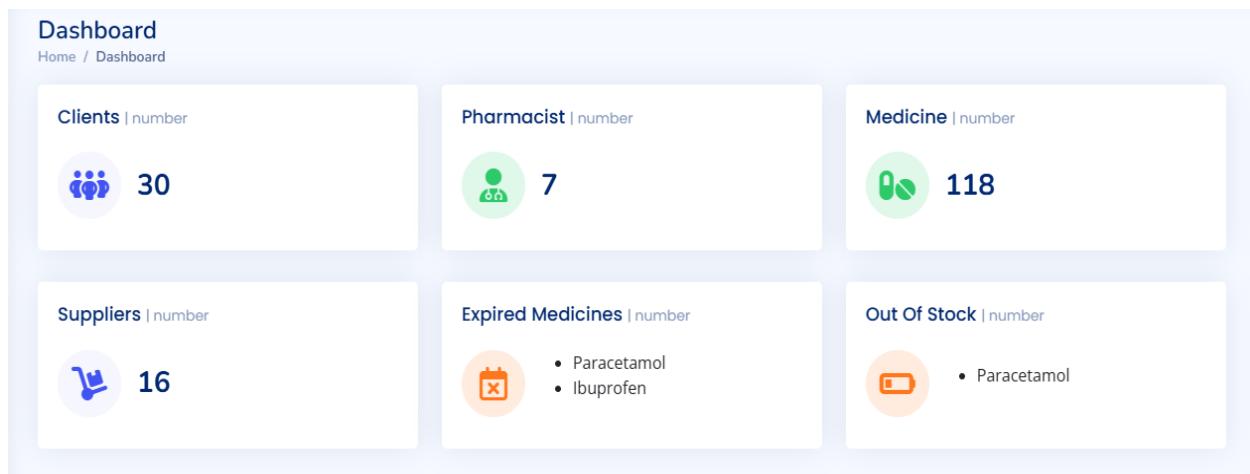


figure5.9: Cards

News & Updates | BLOGS

- The Importance of Nutrition in Mental Health**
From a young age, we're taught that eating well helps us look and feel our physical best..

- The Importance of Nutrition in Mental Health**
Throughout history, we haven't completely understood the relationship ..

- The Evolution of Vaccines: From Smallpox to COVID-19 Introduction**
The systematic study of the evolution of the concept of vaccination constitutes a fascinating journey

- The Importance of Nutrition in Mental Health**
Eating well – a balanced diet full of vegetables and nutrients – can improve your sense of well-being and mood.

- The Importance of Medicine**
The role of medicine has been described as 'to cure sometimes, to heal often and to comfort always'.


figure5.10: Blog section

Top Medicines

#	Medicine Name	Price	Quantity
1	Paracetamol	2.50	0
2	Amoxicillin	5.00	23
3	Omeprazole	4.50	85
4	Vitamin C	2.00	300
5	Vitamin D	1.80	215

1 2 3 4 5 6 [Next](#)

figure5.11: Top Medicines

Latest Clients

#	First Name	Middle Name	Last Name	Date of Birth	Allergies	Conditions	Medicines	Email	Phone
1	ali	khaled	KHADER	2002-12-21	none	none	none	alikhader@gmail.com	0790476298
2	x	xy	xz	2024-12-15	none	none	none	anything@gmail.com	1234569871
3	x	x	x	2024-12-11	none	none	none	xyz@gmail.com	4569871236
4	Ali	Ahmed	Hassan	1990-05-10	Peanuts	Asthma	Ventolin	ali.hassan@test.com	1234567890
5	Fatima	Mohamed	Youssef	1988-03-25	Penicillin	Diabetes	Insulin	fatima.youssef@test.com	9876543210

figure5.12: Recent Clients



figure5.13: Sales Tracking Chart

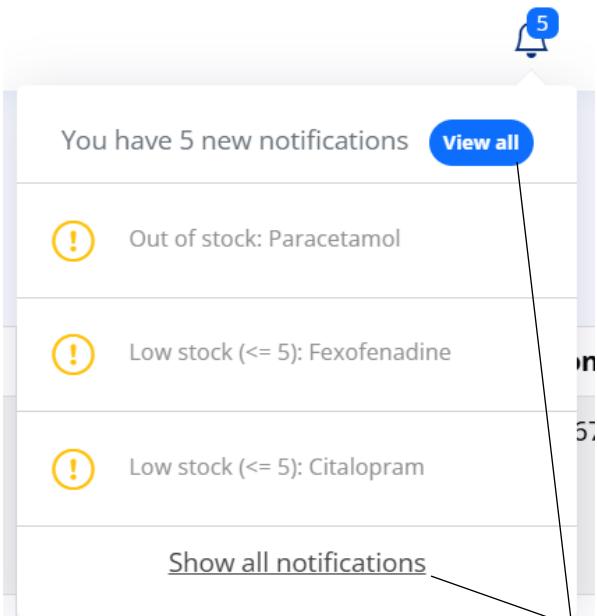


Figure5.14: Notifications

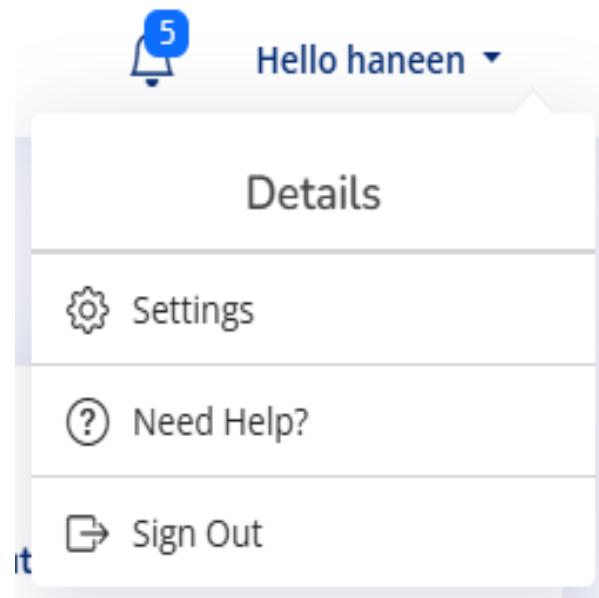


Figure5.15: Details

All Notifications

Out of stock: Paracetamol
Low stock (<= 5): Fexofenadine
Low stock (<= 5): Citalopram
Expired: Paracetamol
Expired: Ibuprofen

[BACK](#)

Figure5.16: Notifications Page

ID	First Name	Middle Name	Last Name	Date of Birth	allergies	Conditions	Medicines	Email	Phone	Actions
1	Ali	Ahmed	Hassan	1990-05-10	Peanuts	Asthma	Ventolin	ali.hassan@test.com	1234567890	<button>Edit</button> <button>Delete</button>
2	Fatima	Mohamed	Youssef	1988-03-25	Penicillin	Diabetes	Insulin	fatima.youssef@test.com	9876543210	<button>Edit</button> <button>Delete</button>
3	Omar	Adel	Khaled	1995-07-14	None	Hypertension	Amlodipine	omar.khaled@test.com	1122334455	<button>Edit</button> <button>Delete</button>
4	Huda	Ibrahim	Saeed	1993-09-22	Dust	Allergic Rhinitis	Cetirizine	huda.saeed@test.com	2233445566	<button>Edit</button> <button>Delete</button>
5	Khaled	Samir	Nasser	1991-11-01	Seafood	Hyperlipidemia	Atorvastatin	khaled.nasser@test.com	3344556677	<button>Edit</button> <button>Delete</button>

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Figure5.17: Clients Page

Create New Client

First Name:

Middle Name:

Last Name:

Date of Birth: mm/dd/yyyy

allergies:

Conditions:

Medicines:

E-mail:

Phone number:

Edit Client

First Name: Salma

Middle Name: Mohsen

Last Name: Tarek

Date of Birth: 04/20/1997

allergies: Bee Stings

Conditions: None

Medicines: Epinephrine

E-mail: salma.tarek@test.com

Phone number: 9900112233

Figure5.18: Create Client Form

Figure5.19: Edit Client Form

The screenshot shows a table with 14 columns. The columns are: id, Drug Name, Price, Quantity, Production Date, Expiration Date, Drug information, Side Effects, Medical Condition, Drug Rating, Dosage Form, Strength, and Actions. There are 5 rows of data:

1	Paracetamol	2.50	0	2013-10-01	2015-10-01	Pain reliever and fever reducer	Nausea, rash	Headache, fever	5	Tablet	500 mg	<button>Edit</button>	<button>Delete</button>
2	Ibuprofen	3.00	126	2020-08-15	2023-08-15	Anti-inflammatory and pain reliever	Stomach upset	Inflammation, pain	4	Capsule	200 mg	<button>Edit</button>	<button>Delete</button>
3	Aspirin	1.50	183	2023-09-20	2025-09-20	Pain reliever and blood thinner	Bleeding, nausea	Pain, heart conditions	3	Tablet	100 mg	<button>Edit</button>	<button>Delete</button>
4	Amoxicillin	5.00	29	2024-01-01	2025-12-01	Treats bacterial infections	Diarrhea, rash	Infections	5	Capsule	250 mg	<button>Edit</button>	<button>Delete</button>
5	Ciprofloxacin	7.50	80	2023-11-15	2025-11-15	Broad-spectrum antibiotic	Nausea, headache	Infections	4	Tablet	500 mg	<button>Edit</button>	<button>Delete</button>

Below the table is a navigation bar with page numbers from 1 to 24.

Figure5.20: Medicines Page [Admin View]

Create New Medicine

Drug Name:

Price:

Quantity:

Production Date:

Expiration Date:

Information:

Side Effects:

Figure5.21: Create Medicine Form [1]

Medical Condition:

Drug Rating:

Dosage Form:

Strength:

Figure5.22: Create Medicine Form [2]



Search

Hello haneen

ID	Drug Name	Price	Quantity	Production Date	Expiration Date	Drug Information	Side Effects	Medical Condition	Drug Rating	Dosage Form	Strength
1	Paracetamol	2.50	0	2013-10-01	2015-10-01	Pain reliever and fever reducer	Nausea, rash	Headache, fever	5	Tablet	500 mg
2	Ibuprofen	3.00	126	2020-08-15	2023-08-15	Anti-inflammatory and pain reliever	Stomach upset	Inflammation, pain	4	Capsule	200 mg
3	Aspirin	1.50	183	2023-09-20	2025-09-20	Pain reliever and blood thinner	Bleeding, nausea	Pain, heart conditions	3	Tablet	100 mg
4	Amoxicillin	5.00	29	2024-01-01	2025-12-01	Treats bacterial infections	Diarrhea, rash	Infections	5	Capsule	250 mg
5	Ciprofloxacin	7.50	80	2023-11-15	2025-11-15	Broad-spectrum antibiotic	Nausea, headache	Infections	4	Tablet	500 mg
6	Clarithromycin	6.00	53	2023-07-10	2025-07-10	Macrolide antibiotic	Diarrhea, abdominal pain	Respiratory infections	4	Tablet	250 mg
7	Cetirizine	3.00	120	2023-03-01	2025-03-01	Relieves allergy symptoms	Drowsiness, dry mouth	Allergies	4	Tablet	10 mg
8	Loratadine	3.50	110	2023-02-01	2025-02-01	Non-drowsy allergy relief	Dry mouth	Allergies	4	Tablet	10 mg
9	Diphenhydramine	2.50	70	2023-01-15	2025-01-15	Relieves hay fever and allergy symptoms	Drowsiness, dry mouth	Allergies	3	Capsule	25 mg
10	Omeprazole	4.50	85	2024-06-01	2026-06-01	Reduces stomach acid	Headache, nausea	GERD, ulcers	5	Capsule	20 mg
11	Ranitidine	2.00	71	2024-04-01	2026-04-01	Treats heartburn and indigestion	Constipation	Heartburn	4	Tablet	150 mg
12	Aluminum Hydroxide	1.50	100	2023-09-01	2025-09-01	Neutralizes stomach acid	Nausea	Acid reflux	3	Suspension	200 ml
13	Vitamin C	2.00	300	2023-05-10	2025-05-10	Boosts immunity	Stomach upset	Vitamin deficiency	5	Tablet	500 mg
14	Vitamin D	1.80	215	2023-06-01	2025-06-01	Supports bone health	Nausea	Vitamin deficiency	5	Capsule	1000 IU
15	Vitamin B12	4.00	147	2024-01-01	2026-01-01	Supports nerve health	No major side effects	Vitamin deficiency	5	Injection	1 ml

1 2 3 4 5 6 7 8

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Figure5.22: Medicine Page [Pharmacist View]



Search

Hello haneen

Pharmacist with email hadecalmahameed2@gmail.com already exists in the registration table.

New

ID	First Name	Last Name	Email	Phone	Password	Address	Shift Start	Shift End	Hours per Week	Employment Status	CV	Date Hired	Salary	Role	Actions
5	yousef	yousef	yousefhassan@gmail.com	0790476296	pharmacist234567	jordan	08:00:00	00:00:00	20	full time	uploads/cvs/assignment1_haneenkhader_compiler.pdf	2024-12-11	300.00	pharmacist	
13	adam	mohamad	adam@gmail.com	1523684597	adminAdam124	amman-balad-st22-13	08:00:00	00:00:00	20	full time	uploads/cvs/1733871801_lecture 02 Lexical Analysis 1st 24-25.pdf	2024-12-11	400.00	admin	
15	ahmad	hassan	dr.ahmadhassan@gmail.com	1258743691	ahmadhassan1995Pharmacist	jordan	10:00:00	17:00:00	40	full time	uploads/cvs/1734594262_top_10176916.png	2024-12-19	300.00	pharmacist	
16	haneen	khader	haneenkhaledkhader2003@gmail.com	0790476296	adminHaneen123	jordan	12:00:00	15:00:00	15	part time	uploads/cvs/1734594631_top_10176916.png	2020-12-19	500.00	admin	
19	abdulrahmann	rashad	abdulrahmannrashad@gmail.com	1209387476	pharmacistAbd1999	jordan	08:00:00	15:00:00	35	full time	uploads/cvs/1734783898_black-background.jpg	2024-12-21	300.00	pharmacist	

1 2

Figure5.23: Pharmacist Page [AdminView]

Create New pharmacist

first_name:
Enter pharmacist first_name

last_name:
Enter pharmacist last_name

email:
Enter pharmacist email

phone:
Enter pharmacist phone number

password:
Enter pharmacist password

address:
city-street-building-apartmentNumber

shift_start:
--:-- --

shift_end:
--:-- --

hours_per_week:
Enter worked hours per week

employment_status:
full time , part time

Upload CV:
 Choose File No file chosen

date_hired:
mm/dd/yyyy

salary:
enter pharmacist salary per month

Select Role:
 Select your role

Submit

Cancel

Figure5.24: Create Pharmacist Form[1]

shift_end:
--:-- --

hours_per_week:
Enter worked hours per week

employment_status:
full time , part time

Upload CV:
 Choose File No file chosen

date_hired:
mm/dd/yyyy

salary:
enter pharmacist salary per month

Select Role:
 Select your role

Submit

Cancel

Figure5.25: Create Pharmacist Form[2]



Search

New 

ID	Supplier Name	Company Name	Items Ordered	Quantity	Date Of Order	Time Of Order	Pharmacist In Charge	Total Cost	Order Status	Payment Status	Role	Email	Phone	Actions
1	Ahmed Al-Khalifa	Khalifa Pharma Co.	Paracetamol, Ibuprofen	50	2024-12-10	10:30:00	Dr. Sara Ali	500.00	Delivered	Completed	Employee	ahmed.khalifa@example.com	01234567890	 
2	Hassan El-Amrani	Amrani Medics	Antibiotics, Cough Syrup	100	2024-12-08	15:45:00	Dr. Mona Ahmed	1500.00	In Process	Pending	Employee	hassan.amrani@example.com	01123456789	 
3	Fatima Bin-Zayed	Zayed Pharma Group	Vitamins, Supplements	75	2024-12-07	09:15:00	Dr. Omar Hassan	750.00	Cancelled	Overdue	Employee	fatima.zayed@example.com	01345678901	 
4	Youssef Al-Qassem	Qassem Medical Supplies	Syringes, Bandages	200	2024-12-06	11:20:00	Dr. Layla Karim	1200.00	Delivered	Completed	Employee	youssef.qassem@example.com	01456789012	 
5	Layla Al-Rashid	Rashid Pharma	Insulin, Glucose Monitors	30	2024-12-05	16:50:00	Dr. Kareem Ismail	3000.00	In Process	Pending	Employee	layla.rashid@example.com	01567890123	 

1 2 3 4

Figure5.26: Suppliers Page [Admin View]

Create New Supplier

Supplier Name:
Enter supplier's full name

Company Name:
Enter the company's name

Items Ordered:
Enter items ordered

Quantity:
Enter quantity of items ordered

Date of Order:
mm/dd/yyyy

Time of Order:
--:-- --

Pharmacist in Charge:
Enter name of the pharmacist handling the order

Figure5.27: Create Supplier Form[1]

Cost of Order:
Enter total cost of the order

Order Status:
Select Order Status

Payment Status:
Select Payment Status

Role of supplier:
Owner

E-mail of company:
Enter supplier's email address

Phone Number of company:
Enter supplier's phone number

Submit

Cancel

Figure5.28: Create Supplier Form[2]



Search

Hello haneen

id	supplier_name	company_name	items_ordered	quantity	date_of_order	time_of_order	pharmacist_in_charge	total_cost	order_status	payment_status	Role	Email	Phone
1	Ahmed Al-Khalifa	Khalifa Pharma Co.	Paracetamol, Ibuprofen	50	2024-12-10	10:30:00	Dr. Sara Ali	500.00	Delivered	Completed	Employee	ahmed.khalifa@example.com	01234567890
2	Hassan El-Amrani	Amrani Medics	Antibiotics, Cough Syrup	100	2024-12-08	15:45:00	Dr. Mona Ahmed	1500.00	In Process	Pending	Employee	hassan.amrani@example.com	01123456789
3	Fatima Bin-Zayed	Zayed Pharma Group	Vitamins, Supplements	75	2024-12-07	09:15:00	Dr. Omar Hassan	750.00	Cancelled	Overdue	Employee	fatima.zayed@example.com	01345678901
4	Youssif Al-Qassem	Qassem Medical Supplies	Syringes, Bandages	200	2024-12-06	11:20:00	Dr. Layla Karim	1200.00	Delivered	Completed	Employee	youssef.qassem@example.com	01456789012
5	Layla Al-Rashid	Rashid Pharma	Insulin, Glucose Monitors	30	2024-12-05	16:50:00	Dr. Kareem Ismail	3000.00	In Process	Pending	Employee	layla.rashid@example.com	01567890123
6	Omar El-Mansouri	Mansouri Pharma Supplies	Painkillers, Thermometers	150	2024-12-04	14:10:00	Dr. Nada Salem	900.00	Delivered	Completed	Employee	omar.mansouri@example.com	01678901234
7	Amina Al-Tamimi	Tamimi Pharmaceuticals	Antiseptics, Surgical Masks	120	2024-12-03	13:35:00	Dr. Yara Ibrahim	600.00	Cancelled	Overdue	Employee	amina.tamimi@example.com	01789012345
8	Khaled Al-Shehri	Shehri Pharma Distribution	Anti-Allergy Drugs	80	2024-12-02	10:00:00	Dr. Hani Mustafa	800.00	Delivered	Completed	Employee	khaled.shehri@example.com	01890123456
9	Ali Ahmed	Pharma Supplies Co.	Medicine A, Medicine B	40	2024-12-10	14:30:00	Dr. Sara	500.00	In Process	Pending	Employee	ali@pharmasupplies.com	0123456789
10	Mohamed Al-Farsi	Medicines Plus	Painkiller, Antibiotic	20	2024-12-12	09:00:00	Dr. John	800.00	Delivered	Completed	Owner	mohamed@medicinesplus.com	0123456790

Figure5.29: Supplier Page [Pharmacist View]



Dashboard

Search

Hello haneen

- CLIENTS**
- MEDICINES**
- PHARMACISTS**
- SUPPLIERS**
- STOCK**
- notes**
- F.A.Q**
- contact**
- help**
- Logout**



Paracetamol

0

+ 0 +

Add to Cart

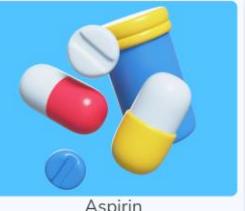


Ibuprofen

\$3.00

- 0 +

Add to Cart



Aspirin

\$1.50

- 0 +

Add to Cart



Amoxicillin

\$5.00

- 0 +

Add to Cart









Figure5.30: Stock Page

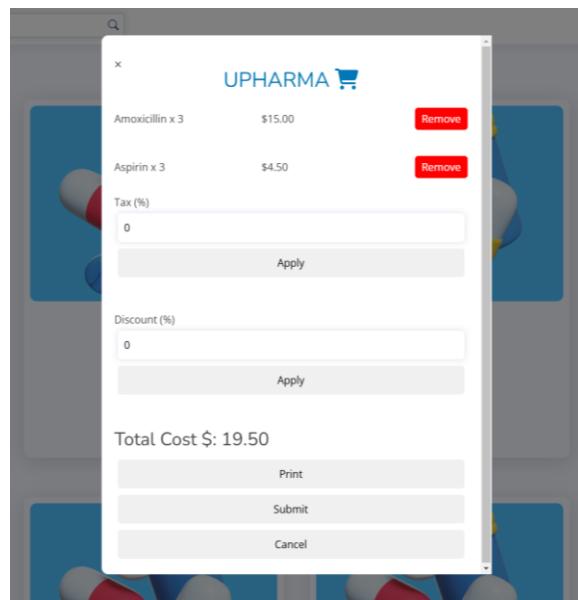


Figure5.31: Purchase Invoice [Cart]

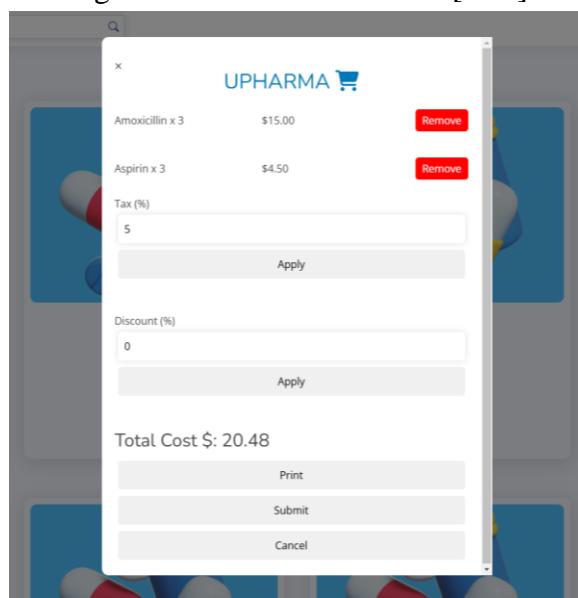


Figure5.32: Purchase Invoice Tax

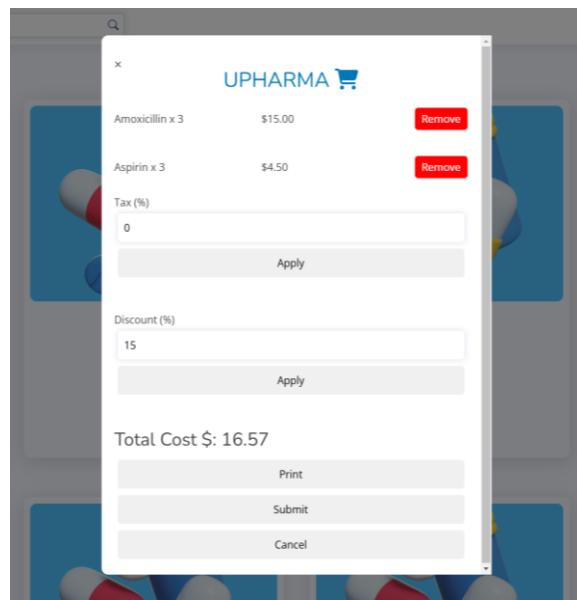


Figure5.33: Purchase Invoice Discount

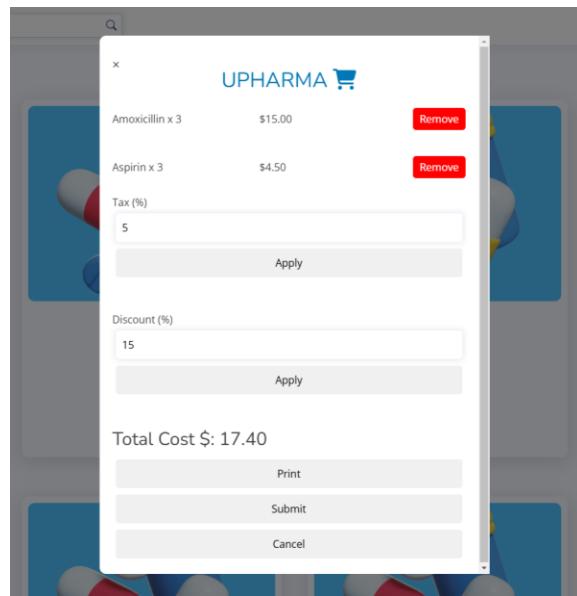


Figure5.34: Purchase Invoice Tax & Discount

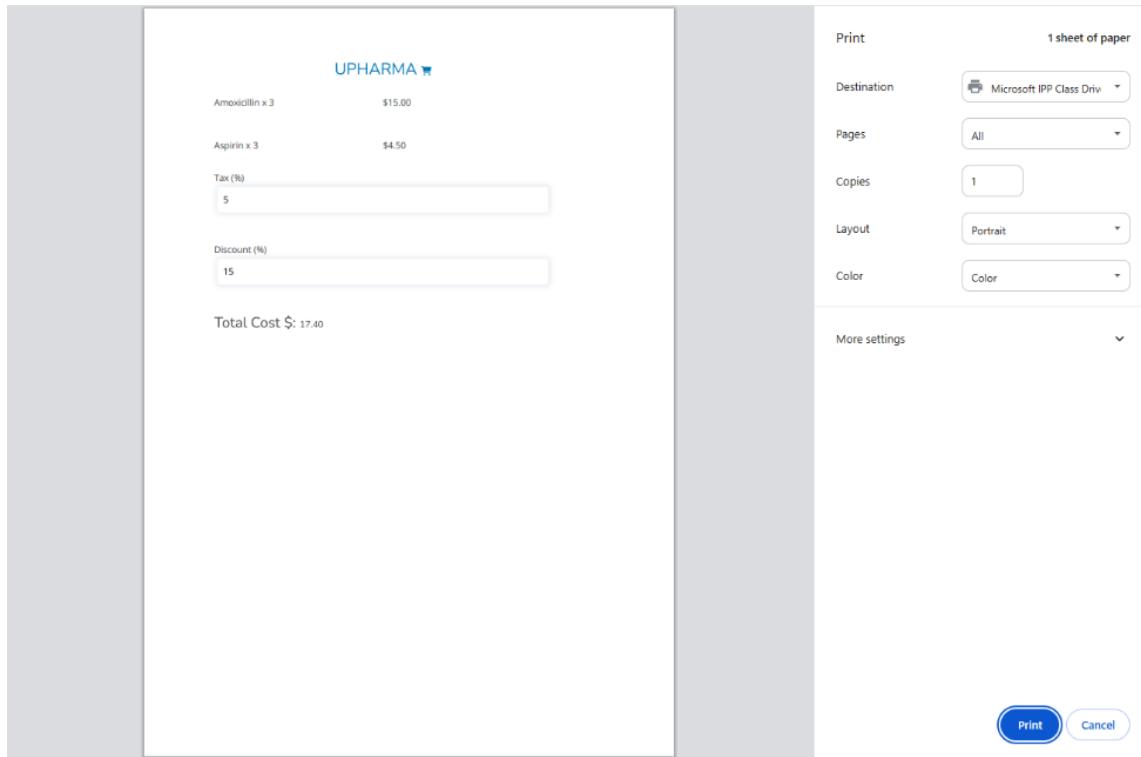


Figure5.35:Print Purchase Invoice

The screenshot shows a 'Purchase History' table with the following data:

Purchase Date	Cart Items	Tax	Discount	Total Cost
2024-12-21 00:00:00	Ibuprofen (3)	0.00%	0.00%	\$9.00
2024-12-21 00:00:00	Clarithromycin (3), Codeine (2)	0.00%	0.00%	\$30.00
2024-12-20 00:00:00	Amoxicillin (3)	0.00%	0.00%	\$15.00
2024-12-20 00:00:00	Aspirin (4)	0.00%	0.00%	\$6.00
2024-12-20 00:00:00	Amoxicillin (3), Clarithromycin (2)	0.00%	0.00%	\$27.00
2024-12-20 00:00:00	Ibuprofen (2)	0.00%	0.00%	\$6.00
2024-12-20 00:00:00	Ibuprofen (2)	0.00%	0.00%	\$6.00
2024-12-20 00:00:00	Ibuprofen (2)	0.00%	0.00%	\$6.00
2024-12-20 00:00:00	Aspirin (2)	0.00%	0.00%	\$3.00
2024-12-20 00:00:00	Ibuprofen (3)	0.00%	0.00%	\$9.00
2024-12-20 00:00:00	Citalopram (4), Carbamazepine (3)	0.00%	0.00%	\$40.00
2024-12-20 00:00:00	Amoxicillin (3)	0.00%	0.00%	\$15.00
2024-12-20 00:00:00	Amoxicillin (3), Aspirin (4)	0.00%	5.00%	\$19.95
2024-12-20 00:00:00	Aspirin (3), Amoxicillin (3), Clarithromycin (2)	5.00%	5.00%	\$31.42
2024-12-20 00:00:00	Amoxicillin (2), Omeprazole (2)	5.00%	15.00%	\$16.96

Figure5.36: Purchase History

The screenshot shows the UPHARMA platform's 'Team Notes' section. At the top right, there is a user profile icon with the name 'Hello haneen'. The main heading is 'Share notes with other pharmacists here'. Below it, there is a search bar and a placeholder text 'Write a new note...'. A large 'Add Note' button is located in the top right corner of the note area. Each note card has two small buttons on the right: a yellow one with a square icon and a red one with a trash bin icon.

Notes listed:

- write a new report about heart diseases ,write a new report about heart diseases ,write a new report about heart diseases write a new report about heart diseases ,write a new report about heart diseases ,write a new report about heart diseases write a new report about heart diseases ,write a new report about heart diseases
- make a new report , u can edit this note , also all pharmacists can see this note
- hello this is a test , can u see the edit
- hello hadeel nice to meet u , i love u

At the bottom center, there is a copyright notice: © Copyright UPHARMA 2025.

Figure5.37: Team Notes Page

This screenshot is similar to Figure 5.37, showing the 'Team Notes' page. It includes the same header, search bar, and note cards. A blue arrow points from the text 'blue arrow pointing to the Add Note button' to the 'Add Note' button, which is highlighted with a blue border. The notes listed are identical to those in Figure 5.37.

Figure5.38: Write & Add Notes

The screenshot shows a web interface for 'UPHARMA' with a navigation bar at the top. A search bar is present, along with a user profile icon for 'Hello haneen'. The main content area has a heading 'Share notes with other pharmacists here'. Below this, there is a text input field with placeholder text 'Write a new note...'. An 'Add Note' button is located in the top right corner. To the right of the input field, there are four rows of two small square icons each, colored yellow and red. A blue arrow points from the text 'this text is for testing this page' down towards these icons. At the bottom of the page, a copyright notice reads '© Copyright UPHARMA 2025'.

Figure5.39: Note Added

This screenshot shows the same UPHARMA interface after a note has been added. The 'Share notes with other pharmacists here' section now displays several notes. The first note contains the text 'make a new report , u can edit this note , also all pharmacists can see this note'. The second note contains 'hello this is a test , can u see the edit'. The third note contains 'hello hadeel nice to meet u , i love u'. The fourth note contains 'this text is for testing this page'. Each note is accompanied by a set of yellow and red icons. A blue arrow points from the text 'hello hadeel nice to meet u , i love u' towards the icons for this specific note. The copyright notice '© Copyright UPHARMA 2025' is visible at the bottom.

Figure 5.40: Completed Notes

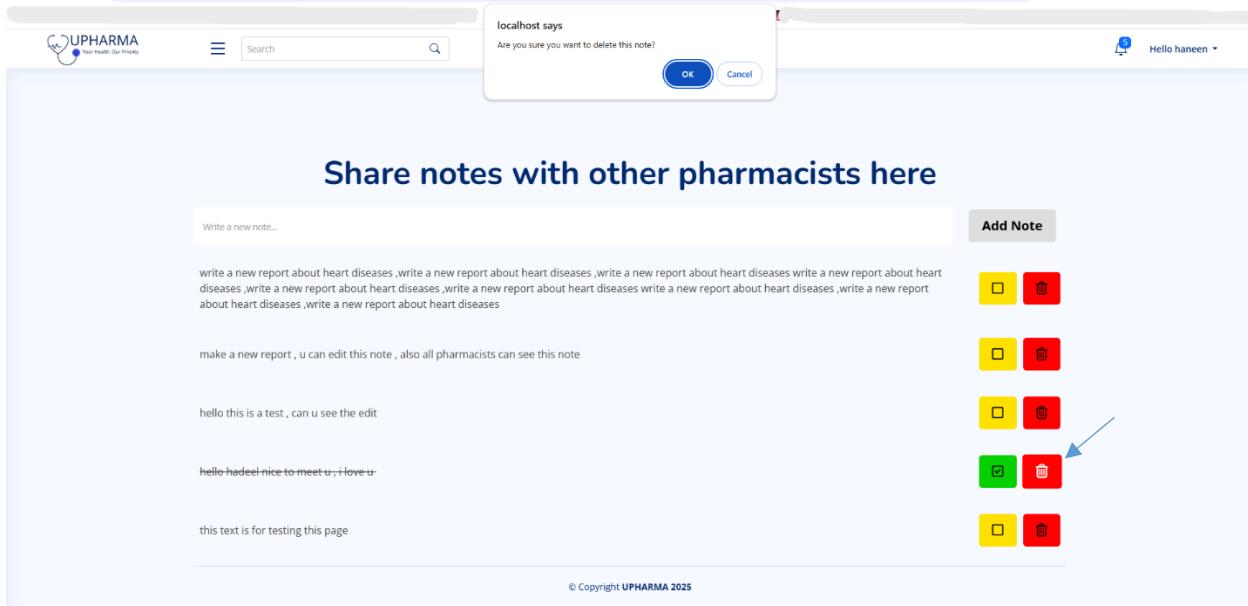


Figure 5.41: Delete Note Alert

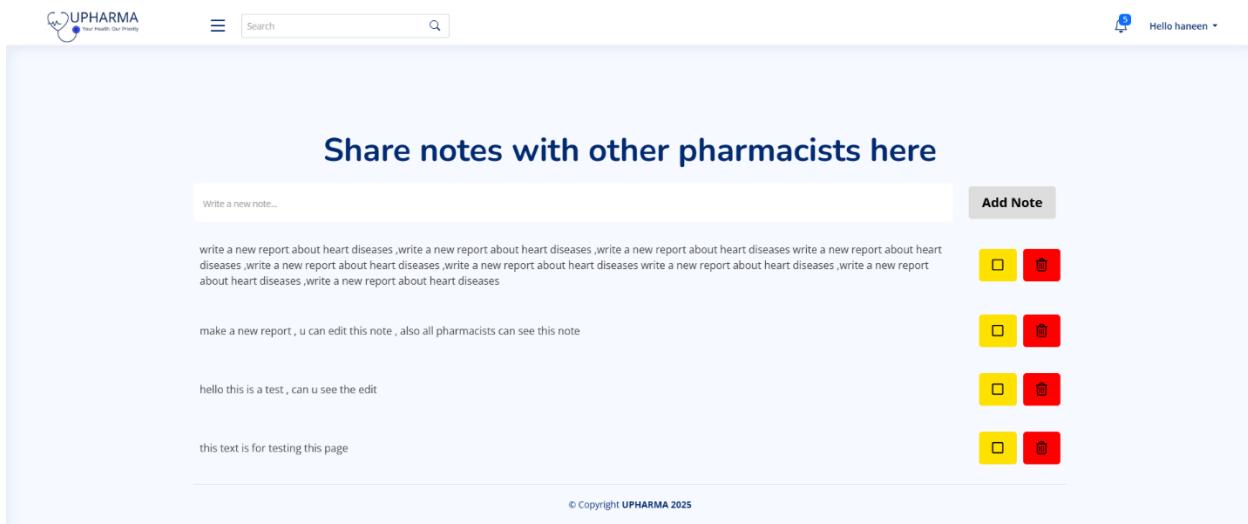


Figure 5.42: Note Deleted

Frequently Asked Questions

Home / Pages / Frequently Asked Questions

FAQ

Is the system user-friendly?

Is customer support available for troubleshooting?

Can it track patient medical history and allergies?

Is there a way to monitor staff activity and roles?

Can the system be customized for different types of pharmacies?

How are prescriptions managed within the system?

Does the system have a module for managing suppliers?

Can the system differentiate between prescription-only and over-the-counter (OTC) medications?

Can the system alert me about potential drug recalls?

Is technical support available 24/7?

What is a Pharmacy Management System?

How does this system help pharmacists?

Figure 5.43: F.A.Q Page[1]

Frequently Asked Questions

Home / Pages / Frequently Asked Questions

FAQ

Is the system user-friendly?

The system features a user-friendly interface designed for easy navigation, even for those with minimal technical experience.

Is customer support available for troubleshooting?

Can it track patient medical history and allergies?

Is there a way to monitor staff activity and roles?

Can the system be customized for different types of pharmacies?

How are prescriptions managed within the system?

Does the system have a module for managing suppliers?

Can the system differentiate between prescription-only and over-the-counter (OTC) medications?

Can the system alert me about potential drug recalls?

Is technical support available 24/7?

What is a Pharmacy Management System?

How does this system help pharmacists?

Figure 5.44: F.A.Q Page[2]

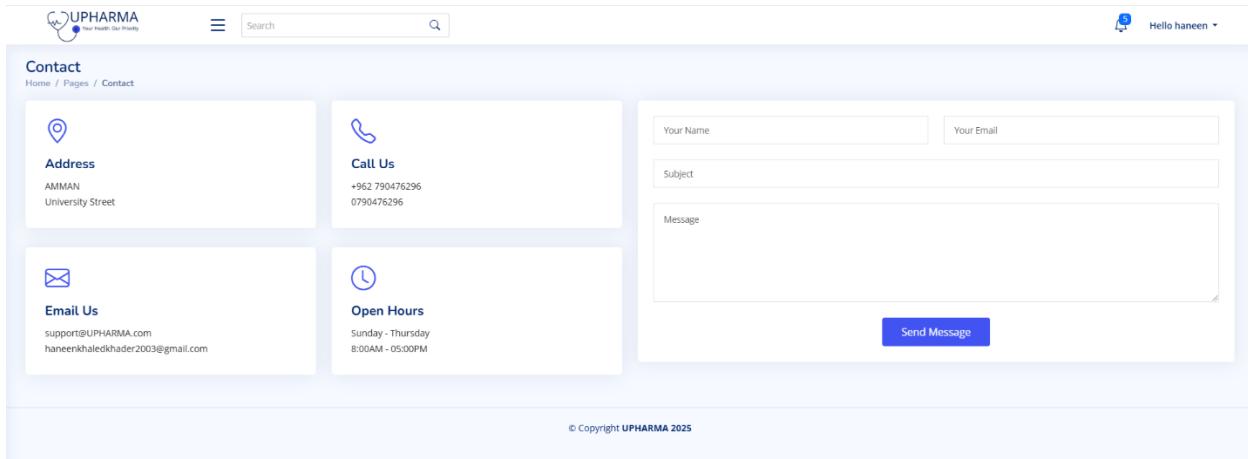


Figure 5.45: Contact Page

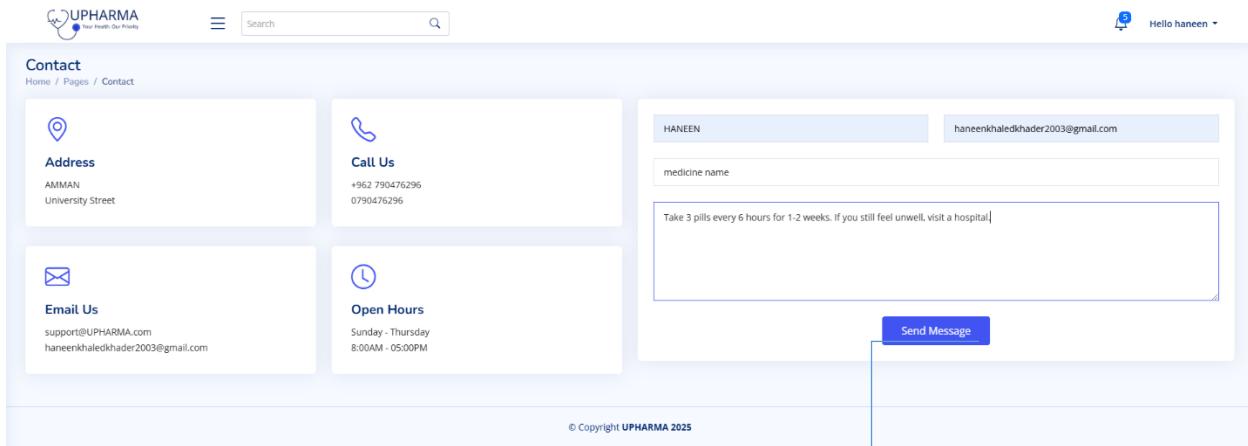


Figure 5.46: Write Message

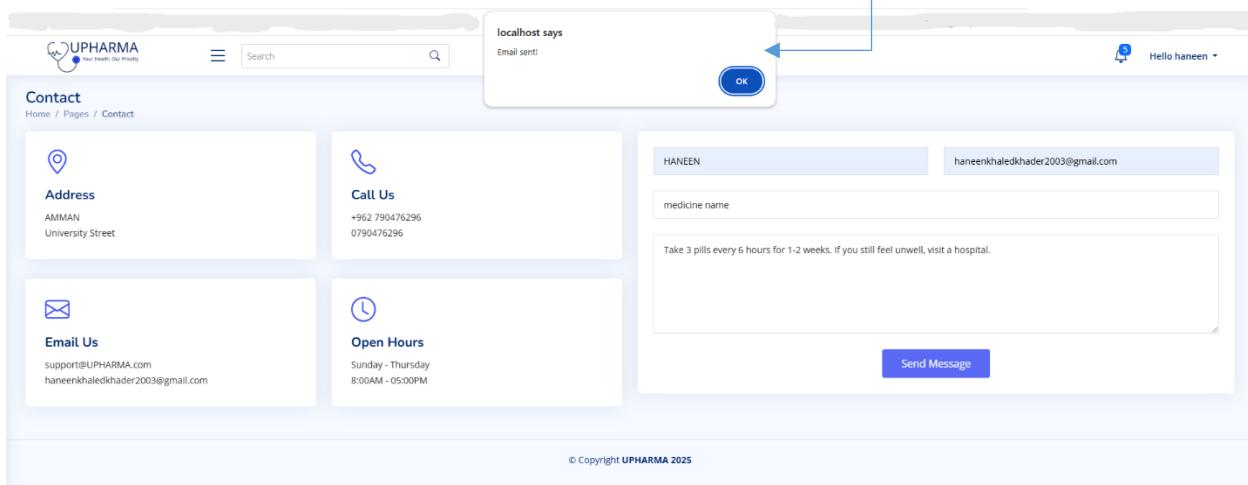


Figure 5.47: Send Message Alert



Figure 5.48: Email Received in Gmail

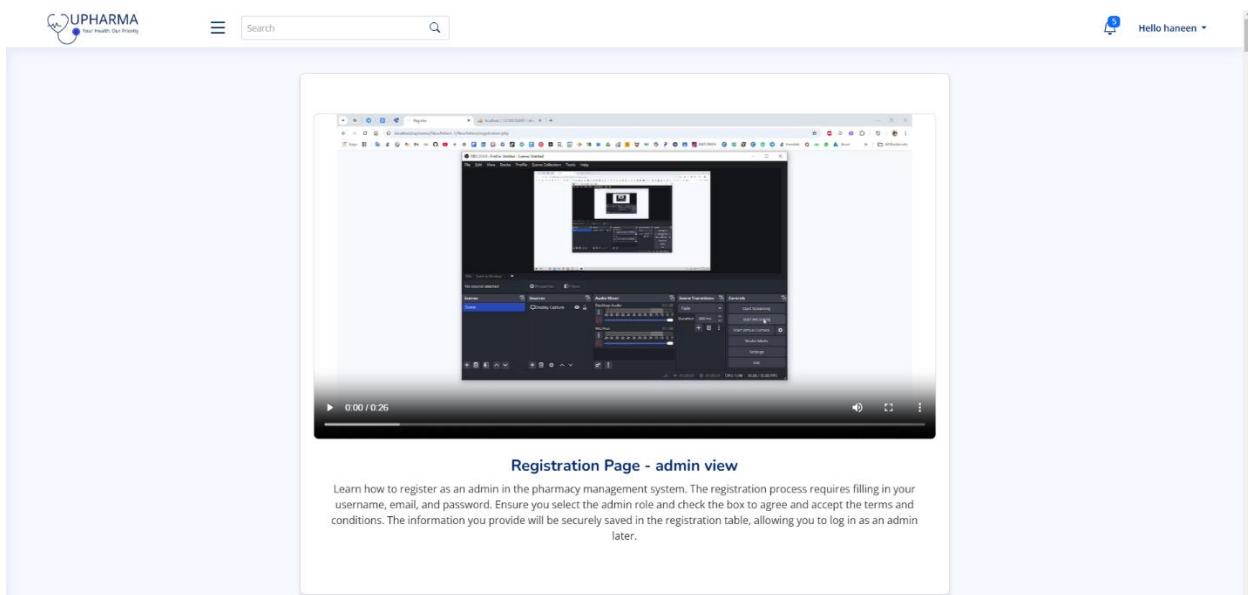


Figure 5.49: Help page[1]

The screenshot shows the UpPharma application interface. At the top, there is a navigation bar with the logo, a search bar, and a user profile icon labeled "Hello haneen". Below the navigation bar is the "Dashboard" section. The dashboard features six cards arranged in a grid:

- Clients**: number 31 (Icon: people)
- Pharmacists**: number 4 (Icon: person)
- Medicine**: number 118 (Icon: medicine bottle)

- Suppliers**: number 16 (Icon: hand)
- Expired Medicines**: number 5 (Icon: calendar with an X)
- Out Of Stock**: number 6 (Icon: video camera)

Below the dashboard cards is a section titled "Dashboard Cards" with the following descriptions:

- Clients**: This card displays the total number of registered clients in your system, offering quick insight into your client base.
- Pharmacists**: View the number of active pharmacists in your pharmacy management system, helping you keep track of your staff.
- Medicines**: This card shows the total number of medicines available in the system, providing a snapshot of your pharmacy's inventory.
- Suppliers**: Keep track of your suppliers with a quick glance at how many are currently associated with your pharmacy.

Figure 5.50: Help page[2]

The screenshot shows the UpPharma application interface. At the top, there is a navigation bar with the logo, a search bar, and a user profile icon labeled "Hello haneen". Below the navigation bar is the "Top Medicines" section. It features a table titled "Top Medicines" with the following data:

#	Medicine Name	Price	Quantity
1	Paracetamol	2.50	0
2	Amoxicillin	5.00	29
3	Omeprazole	4.50	85
4	Vitamin C	2.00	300
5	Vitamin D	1.80	215
6	Vitamin B12	4.00	147
7	Morphine	9.00	20
8	Acetaminophen	2.20	180
9	Metformin	4.00	100
10	Sitagliptin	8.00	80

Below the table is a section titled "Top Medicines" with the following text:

Top Medicines: View a table of the highest-rated medicines (rating: 5), showcasing the most popular and trusted products in your pharmacy.

Figure 5.51: Help page[3]

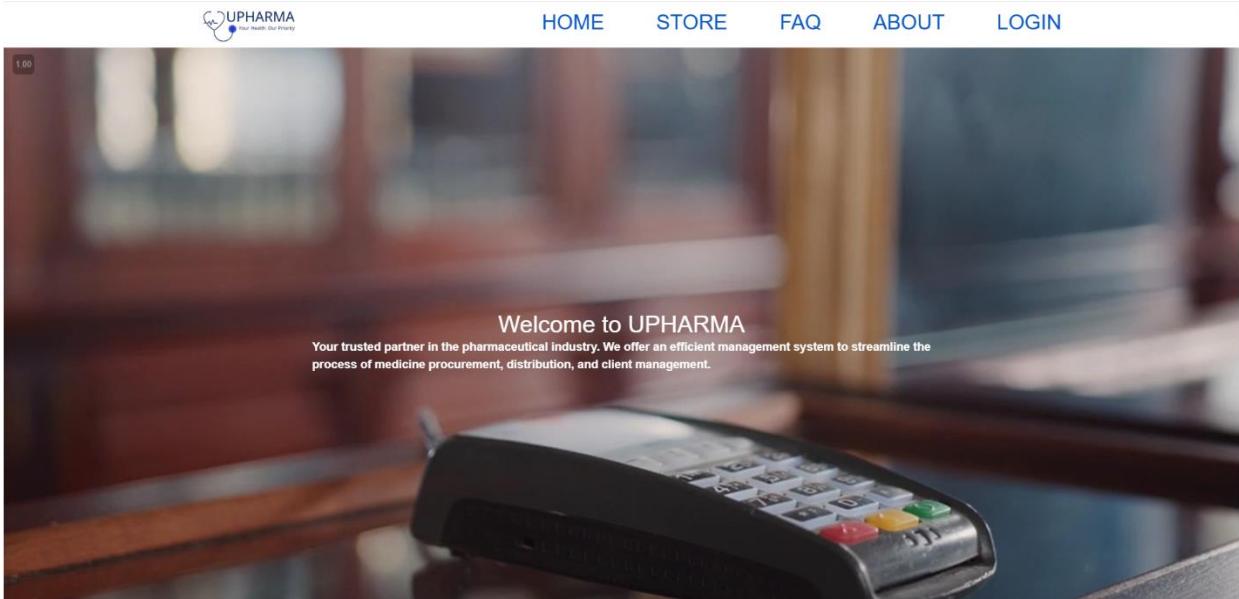


Figure 5.52: Home page

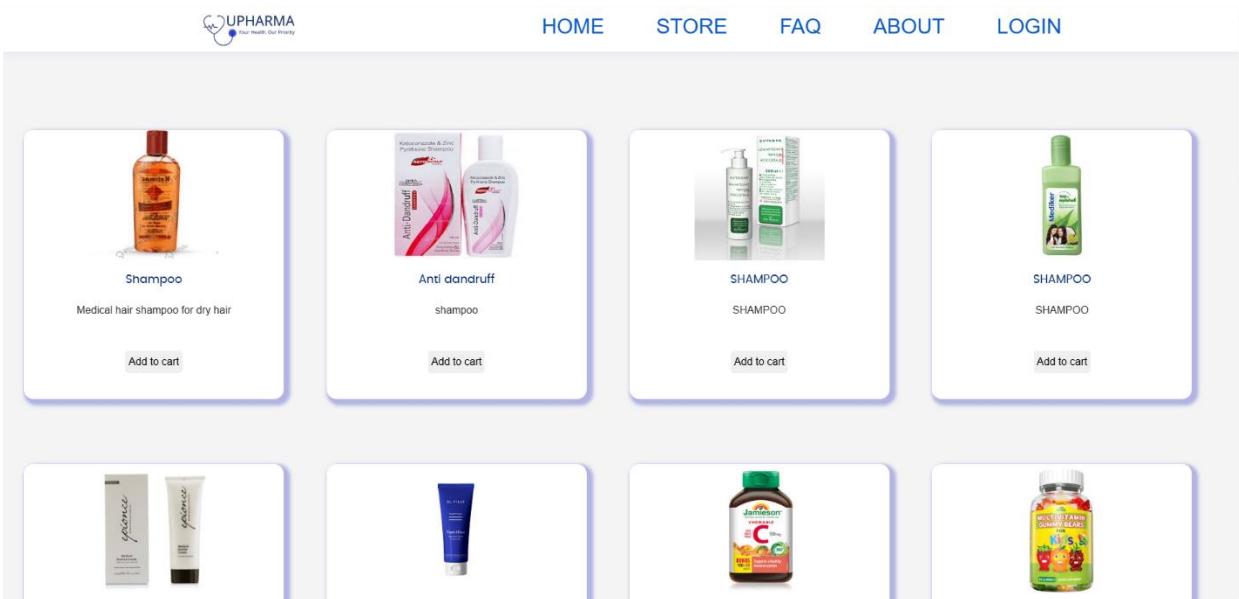


Figure 5.53: Store page [User View]

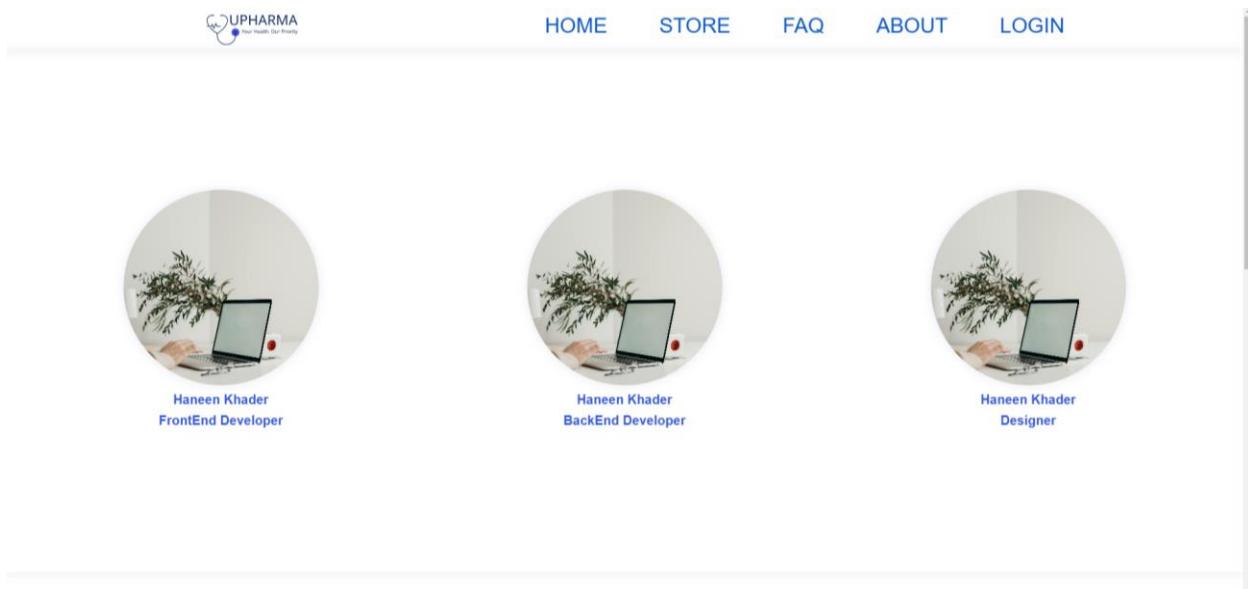


Figure 5.54: Store page [User View]

FAQ Category	Question	Answer
General System Information	What is a Pharmacy Management System?	Is the system user-friendly?
	How does this system help pharmacists?	Is customer support available for troubleshooting?
	Can I track medication stock levels?	Can it track patient medical history and allergies?
	Is patient data secure within this system?	Is there a way to monitor staff activity and roles?
Prescription Management	How are prescriptions managed within the system?	Can the system be customized for different types of pharmacies?
	Does the system have a module for managing suppliers?	
	Can the system differentiate between prescription-only and over-the-counter (OTC) medications?	
	Can the system alert me about potential drug recalls?	
	Is technical support available 24/7?	

Figure 5.55: F.A.Q Page [User View]

Showing rows 0 - 6 (7 total). Query took 0.0004 seconds.

SELECT * FROM `registration`

	Edit	Copy	Delete	id	username	email	password	created_at	role	pharmacist_id
<input type="checkbox"/>	Edit	Copy	Delete	1	haneen	haneenkhaledkhader2003@gmail.com	adminHaneen123	2024-12-09 13:31:21	admin	16
<input type="checkbox"/>	Edit	Copy	Delete	3	Noor	doctornoor@gmail.com	pharmacistnoor123	2024-12-09 20:07:30	pharmacist	21
<input type="checkbox"/>	Edit	Copy	Delete	10	yousef	yousefhassan@gmail.com	pharmacist234567	2024-12-19 10:45:52	pharmacist	5
<input type="checkbox"/>	Edit	Copy	Delete	11	adam	adam@gmail.com	adminAdam124	2024-12-19 10:40:52	admin	13
<input type="checkbox"/>	Edit	Copy	Delete	13	ahmed	dr.ahmadvhassan@gmail.com	ahmadvhassan1995Pharmacist	2024-12-19 10:48:50	pharmacist	15
<input type="checkbox"/>	Edit	Copy	Delete	15	abdallah	abdullahmarrashad@gmail.com	pharmacistAbdullah1999	2024-12-21 15:25:29	pharmacist	19
<input type="checkbox"/>	Edit	Copy	Delete	18	hadeel	hadeelmahameed2@gmail.com	adminHadeel#2002	2024-12-21 19:00:29	pharmacist	27

Figure 5.56: Registration DB Table

Showing rows 0 - 22 (23 total). Query took 0.0004 seconds.

SELECT * FROM `clients`

	Edit	Copy	Delete	id	first_name	middle_name	last_name	date_of_birth	allergies	conditions	medicines	email	phone	created_at
<input type="checkbox"/>	Edit	Copy	Delete	12	Ahmad	Khalid	Ismail	1987-07-11	Gluten	Celiac Disease	Gluten-Free Diet	ahmad.ismail@test.com	110223344	2024-12-11 22:38:11
<input type="checkbox"/>	Edit	Copy	Delete	2	Fatima	Mohamed	Youssef	1988-03-25	Penicillin	Diabetes	Insulin	fatima.youssef@test.com	9876543210	2024-12-11 22:38:11
<input type="checkbox"/>	Edit	Copy	Delete	8	Layla	Hassan	Abdullah	1989-12-15	Lactose	Lactose Intolerance	Lactase Enzymes	layla.abdullah@test.com	6677889900	2024-12-11 22:38:11
<input type="checkbox"/>	Edit	Copy	Delete	1	All	Ahmed	Hassan	1990-05-10	Peanuts	Asthma	Vertolin	ali.hassan@test.com	1234567890	2024-12-11 22:38:11
<input type="checkbox"/>	Edit	Copy	Delete	14	Hassan	Tariq	Nadeem	1991-09-29	None	Gastritis	Omeprazole	hassan.nadeem@test.com	3300445566	2024-12-11 22:38:11
<input type="checkbox"/>	Edit	Copy	Delete	5	Khaled	Sami	Nasser	1991-11-01	Seafood	Hyperlipidemia	Atorvastatin	khaled.nasser@test.com	3344556677	2024-12-11 22:38:11
<input type="checkbox"/>	Edit	Copy	Delete	9	Zain	Rashid	Hamid	1993-08-05	None	Epilepsy	Carbamazepine	zain.hamid@test.com	7788990011	2024-12-11 22:38:11
<input type="checkbox"/>	Edit	Copy	Delete	4	Huda	Ibrahim	Saeed	1993-09-22	Dust	Allergic Rhinitis	Cetirizine	huda.saeed@test.com	2233445566	2024-12-11 22:38:11
<input type="checkbox"/>	Edit	Copy	Delete	6	Amina	Salim	Omar	1994-02-18	None	Migraine	Ibuprofen	amina.omar@test.com	4455667788	2024-12-11 22:38:11
<input type="checkbox"/>	Edit	Copy	Delete	13	Mona	Ihab	Sami	1995-01-25	None	Anemia	Iron Supplements	mona.sami@test.com	2200334455	2024-12-11 22:38:11
<input type="checkbox"/>	Edit	Copy	Delete	3	Omar	Adel	Khaled	1995-07-14	None	Hypertension	Amlodipine	omar.khaled@test.com	1123344556	2024-12-11 22:38:11
<input type="checkbox"/>	Edit	Copy	Delete	7	Yousef	Fadel	Mahmoud	1996-06-30	Pollen	Seasonal Allergies	Loratadine	yousef.mahmoud@test.com	5566778899	2024-12-11 22:38:11
<input type="checkbox"/>	Edit	Copy	Delete	11	Salma	Mohsen	Tarek	1997-04-20	Bee Stings	None	Epinephrine	salma.tarek@test.com	9900112233	2024-12-11 22:38:11
<input type="checkbox"/>	Edit	Copy	Delete	15	Rana	Osama	Karim	1998-03-17	Peanuts	Eczema	Antihistamines	rana.karim@test.com	4400556677	2024-12-11 22:38:11
<input type="checkbox"/>	Edit	Copy	Delete	37	hamza	mohamed	zaid	1999-01-02	Peanuts	Asthma	Vertolin	hamza99@gmail.com	78986541230	2024-12-11 22:38:11
<input type="checkbox"/>	Edit	Copy	Delete	16	Omar	Rami	Hassan	2000-01-15	Dust	Asthma	Albuterol	omar.hassan@test.com	5500112233	2024-12-11 22:38:11
<input type="checkbox"/>	Edit	Copy	Delete	17	Lina	Amir	Yousef	2001-03-27	Shellfish	None	None	linayousef@test.com	6600223344	2024-12-11 22:38:11
<input type="checkbox"/>	Edit	Copy	Delete	36	noor	ahmed	abdullah	2001-11-04	Strawberries	Anemia	Topical Steroids	noor2001@gmail.com	9857412360	2024-12-11 22:38:11
<input type="checkbox"/>	Edit	Copy	Delete	18	Adel	Saleem	Fahmy	2002-07-09	Penicillin	Ear Infection	Amoxicillin Alternative	adel.fahmy@test.com	7700334455	2024-12-11 22:38:11
<input type="checkbox"/>	Edit	Copy	Delete	45	Ali	Khaled	KHADER	2002-12-21	none	none	none	ali.khader@gmail.com	0794762826	2024-12-21 01:05:00
<input type="checkbox"/>	Edit	Copy	Delete	19	Farah	Nabil	Kamal	2003-12-05	None	Hyperthyroidism	Methimazole	farah.kamal@test.com	8800445566	2024-12-11 22:38:11
<input type="checkbox"/>	Edit	Copy	Delete	20	Hadi	Ali	Saf	2004-02-22	Nuts	None	Epinephrine	hadi.saf@test.com	9900556677	2024-12-11 22:38:11
<input type="checkbox"/>	Edit	Copy	Delete	21	Aya	Karim	Nour	2005-09-14	None	Anemia	Iron Supplements	aya.nour@test.com	1010667788	2024-12-11 22:38:11
<input type="checkbox"/>	Edit	Copy	Delete	22	Ziad	Sameh	Rashid	2006-11-30	None	Diabetes Type 1	Insulin	ziad.rashid@test.com	1120768995	2024-12-11 22:38:11
<input type="checkbox"/>	Edit	Copy	Delete	23	Dana	Hussein	Mahmoud	2007-05-19	Strawberries	Eczema	Topical Steroids	dana.mahmoud@test.com	1230889900	2024-12-11 22:38:11

Figure 5.57: Clients DB Table

Table: medicines

	Edit	Copy	Delete	id	drug_name	price	quantity	production_date	expiration_date	drug_information	side_effect	medical_condition	drug_rating	dosage_form	strength
<input type="checkbox"/>	Edit	Copy	Delete	1	Paracetamol	2.50	0	2013-10-01	2015-10-01	Pain reliever and fever reducer	Nausea, rash	Headache, fever	5	Tablet	500 mg
<input type="checkbox"/>	Edit	Copy	Delete	2	Ibuprofen	3.00	125	2020-08-15	2023-08-15	Anti-inflammatory and pain reliever	Stomach upset	Inflammation, pain	4	Capsule	200 mg
<input type="checkbox"/>	Edit	Copy	Delete	3	Aspirin	1.50	180	2023-09-20	2025-09-20	Pain reliever and blood thinner	Bleeding, nausea	Pain, heart conditions	3	Tablet	100 mg
<input type="checkbox"/>	Edit	Copy	Delete	4	Amoxicillin	5.00	26	2024-01-01	2025-12-01	Treats bacterial infections	Diarrhea, rash	Infections	5	Capsule	250 mg
<input type="checkbox"/>	Edit	Copy	Delete	5	Ciprofloxacin	7.50	80	2023-11-01	2025-11-15	Broad-spectrum antibiotic	Nausea, headache	Infections	4	Tablet	500 mg
<input type="checkbox"/>	Edit	Copy	Delete	6	Clarithromycin	6.00	53	2023-07-10	2025-07-10	Macrolide antibiotic	Diarrhea, abdominal pain	Respiratory infections	4	Tablet	250 mg
<input type="checkbox"/>	Edit	Copy	Delete	7	Cetirizine	3.00	120	2023-03-01	2025-03-01	Relieves allergy symptoms	Drowsiness, dry mouth	Allergies	4	Tablet	10 mg
<input type="checkbox"/>	Edit	Copy	Delete	8	Loratadine	3.50	110	2023-02-01	2025-02-01	No-drowsy allergy relief	Dry mouth	Allergies	4	Tablet	10 mg
<input type="checkbox"/>	Edit	Copy	Delete	9	Diphenhydramine	2.50	70	2023-01-15	2025-01-15	Relieves hay fever and allergy symptoms	Drowsiness, dry mouth	Allergies	3	Capsule	25 mg
<input type="checkbox"/>	Edit	Copy	Delete	10	Omeprazole	4.50	85	2024-06-01	2026-06-01	Reduces stomach acid	Headache, nausea	GERD, ulcers	5	Capsule	20 mg
<input type="checkbox"/>	Edit	Copy	Delete	11	Ranitidine	2.00	71	2024-04-01	2026-04-01	Treats heartburn and indigestion	Constipation	Heartburn	4	Tablet	150 mg
<input type="checkbox"/>	Edit	Copy	Delete	12	Aluminum Hydroxide	1.50	100	2023-09-01	2025-09-01	Neutralizes stomach acid	Nausea	Acid reflux	3	Suspension	200 ml
<input type="checkbox"/>	Edit	Copy	Delete	13	Vitamin C	2.00	300	2023-05-10	2025-05-10	Boosts immunity	Stomach upset	Vitamin deficiency	5	Tablet	500 mg
<input type="checkbox"/>	Edit	Copy	Delete	14	Vitamin D	1.80	215	2023-06-01	2025-06-01	Supports bone health	Nausea	Vitamin deficiency	5	Capsule	1000 IU
<input type="checkbox"/>	Edit	Copy	Delete	15	Vitamin B12	4.00	147	2024-01-01	2026-01-01	Supports nerve health	No major side effects	Vitamin deficiency	5	Injection	1 ml
<input type="checkbox"/>	Edit	Copy	Delete	16	Dextromethorphan	2.50	100	2024-01-01	2025-12-01	Relieves cough	Drowsiness, nausea	Cough	4	Syrup	100 ml
<input type="checkbox"/>	Edit	Copy	Delete	17	Guaifenesin	3.50	80	2023-12-01	2025-12-01	Reduces chest congestion	Nausea	Chest congestion	4	Syrup	200 ml
<input type="checkbox"/>	Edit	Copy	Delete	18	Ambroxol	4.00	60	2023-11-01	2025-11-01	Breaks down mucus	Nausea	Cough, congestion	4	Syrup	100 ml
<input type="checkbox"/>	Edit	Copy	Delete	19	Codine	6.00	35	2024-01-15	2026-01-15	Treats moderate to severe pain	Drowsiness	Severe pain	3	Tablet	30 mg
<input type="checkbox"/>	Edit	Copy	Delete	20	Tramadol	7.50	30	2024-02-15	2026-02-15	Relieves pain	Nausea	Moderate pain	4	Capsule	50 mg
<input type="checkbox"/>	Edit	Copy	Delete	21	Morphine	9.00	20	2023-12-01	2025-12-01	Strong painkiller	Drowsiness	Severe pain	5	Injection	10 mg/ml
<input type="checkbox"/>	Edit	Copy	Delete	22	Metaramizole	3.00	200	2023-09-01	2025-09-01	Reduces fever and pain	Nausea, rash	Fever, pain	4	Tablet	500 mg
<input type="checkbox"/>	Edit	Copy	Delete	23	Acetaminophen	2.20	180	2023-08-10	2025-08-10	Fever reducer and pain reliever	Liver damage (high doses)	Fever, headache	5	Tablet	650 mg
<input type="checkbox"/>	Edit	Copy	Delete	24	Fluoxetine	7.00	60	2023-07-15	2025-07-15	Treats depression and anxiety	Nausea, dizziness	Depression, OCD	4	Capsule	20 mg
<input type="checkbox"/>	Edit	Copy	Delete	25	Sertaline	6.50	70	2023-06-01	2025-06-01	Helps with mood disorders	Dry mouth, fatigue	Anxiety, depression	4	Tablet	50 mg

Figure 5.58: Medicines DB Table

Table: pharmacists

	Edit	Copy	Delete	id	first_name	last_name	email	phone	password	address	shift_start	shift_end	hours_per_week	employment_status	cv_url	date_hired	salary	role
<input type="checkbox"/>	Edit	Copy	Delete	5	yousef	yousef	yousef@hassan@gmail.com	0790476296	pharmacist234567	jordan	08:00:00	00:00:00	20	full time	uploads/cvs/assignment1	2024-12-11	300.00	pharmacist
<input type="checkbox"/>	Edit	Copy	Delete	13	adam	mohamed	adam@gmail.com	1523684597	admin@adam124	amman-baladiyah-922-13	08:00:00	00:00:00	20	full time	uploads/cvs/1733871801_02_Lexical_Analysis...	2024-12-11	400.00	admin
<input type="checkbox"/>	Edit	Copy	Delete	15	ahmad	hassan	dr.ahmadhassan@gmail.com	1250743691	ahmadhassan1995Pharmacist	jordan	10:00:00	17:00:00	40	full time	uploads/cvs/1734594262	2024-12-19	300.00	pharmacist
<input type="checkbox"/>	Edit	Copy	Delete	16	hamza	khader	hamza@khader203@gmail.com	0790476296	admin@hamza123	jordan	12:00:00	15:00:00	15	part time	uploads/cvs/1734594031	2020-12-19	500.00	admin
<input type="checkbox"/>	Edit	Copy	Delete	19	abdalmann	rashad	abdalmannrashad@gmail.com	1209387476	pharmacistAbd1999	jordan	08:00:00	15:00:00	35	full time	uploads/cvs/1734783898_background.jpg	2024-12-21	300.00	pharmacist
<input type="checkbox"/>	Edit	Copy	Delete	21	Noor	Ali	doctornoor@gmail.com	123-456-7890	pharmacistnoor123	123 fake street, City	09:00:00	17:00:00	40		http://example.com/cv/no	2024-12-21	50000.00	pharmacist
<input type="checkbox"/>	Edit	Copy	Delete	27	hadeel	almahameed	hadeelalmahameed2@gmail.com	0792647871	adminHadeel2002	amman-s21-631	08:00:00	12:00:00	20	part time	uploads/cvs/1734796822_background.jpg	2024-12-21	400.00	admin

Figure 5.59: Pharmacists DB Table

Table: suppliers

	Edit	Copy	Delete	id	supplier_name	company_name	items_ordered	quantity	date_of_order	time_of_order	pharmacist_in_charge	total_cost	order_status	payment_status	phone	email	role
Edit	Copy	Delete	1	Ahmed Al-Khalifa Co	Khalifa Pharma	Paracetamol, Ibuprofen, Antibiotics	50	2024-12-10	10:30:00	Dr. Sara Ali	500.00	Delivered	Completed	01234567890	ahmed.khalifa@example.com	Employee	
Edit	Copy	Delete	2	Hassan El-Amrazi	Amrazi Medics	Cough Syrup	100	2024-12-08	15:45:00	Dr. Mona Ahmed	1500.00	In Process	Pending	01123456789	hassan.amrazi@example.com	Employee	
Edit	Copy	Delete	3	Fatima Bin-Zayed Group	Zayed Pharma	Vitamins, Supplements	75	2024-12-07	09:15:00	Dr. Omar Hassan	750.00	Cancelled	Overdue	01345678901	fatima.zayed@example.com	Employee	
Edit	Copy	Delete	4	Youssouf Al-Qassem	Qasssem Medical Supplies	Syringes, Bandages	200	2024-12-06	11:20:00	Dr. Layla Karim	1200.00	Delivered	Completed	01456789012	youssef.qassem@example.com	Employee	
Edit	Copy	Delete	5	Layla Al-Rashid	Rashed Pharma	Insulin, Glucose Monitors	30	2024-12-05	16:50:00	Dr. Kareem Ismail	3000.00	In Process	Pending	01567890123	layla.rashid@example.com	Employee	
Edit	Copy	Delete	6	Omar El-Mansouri	Mansouri Pharma Supplies	Thermometers	150	2024-12-04	14:10:00	Dr. Nada Salem	900.00	Delivered	Completed	01678901234	omar.mansouri@example.com	Employee	
Edit	Copy	Delete	7	Amina Al-Tamimi	Tamimi Pharmaceutical	Surgical Masks	120	2024-12-03	13:35:00	Dr. Yara Ibrahim	600.00	Cancelled	Overdue	01789012345	amina.tamimi@example.com	Employee	
Edit	Copy	Delete	8	Khaled Al-Shehri	Shehri Pharma	Anti-Allergy Drugs	80	2024-12-02	10:00:00	Dr. Hani Mustafa	800.00	Delivered	Completed	01890123456	khaled.shehri@example.com	Employee	
Edit	Copy	Delete	9	All Ahmed Co	Pharma Supplies	Medicine A, Medicine B	40	2024-12-10	14:30:00	Dr. Sara	500.00	In Process	Pending	0123456790	all@pharmasupplies.com	Employee	
Edit	Copy	Delete	10	Mohamed Al-Farsi	Medicines Plus	Painkillers, Antibiotic	20	2024-12-12	09:00:00	Dr. John	800.00	Delivered	Completed	0123456790	mohamed.mansori@example.com	Owner	
Edit	Copy	Delete	11	Ahmed Al-Mansouri	PharmaCo	Aspirin, Paracetamol, Ibuprofen, Amoxicillin	40	2024-12-01	10:30:00	Dr. Youssef	2000.00	Delivered	Completed	0551234567	ahmed.mansouri@example.com	Owner	
Edit	Copy	Delete	12	Fatima Al-Basri	ModPharma	Metformin, Insulin	30	2024-12-02	12:00:00	Dr. Amina	1500.00	In Process	Pending	0553456789	fatima.basri@example.com	Employee	
Edit	Copy	Delete	13	Omar Al-Sabah	HealthPlus	Vitamin D, Calcium	15	2024-12-04	09:00:00	Dr. Rana	800.00	Delivered	Completed	0554567890	zaynab.farsi@example.com	Owner	
Edit	Copy	Delete	14	Zaynab Al-Farsi	CareMed	Antihistamines, Cough Syrup	50	2024-12-05	11:30:00	all ahmad	1800.00			0556678901	sami.hashmi@example.com	Employee	
Edit	Copy	Delete	15	Sami Al-Hashmi	MediCare	medicinesupport	Paracetamol	50	2024-12-11	17:35:00	haneen Khader	125.00	In Process	Pending	7896325417	medicinesupport@gmail.com	Employee

Figure 5.60: Suppliers DB Table

Table: purchase_invoice

	Edit	Copy	Delete	id	cart	tax	discount	total_cost	purchase_date
Edit	Copy	Delete	1	[{"name": "Ibuprofen", "price": 3, "quantityOrdered": 3, "quantityPurchased": 3, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-16 00:00:00"}]		0.00	0.00	9.00	2024-12-16 00:00:00
Edit	Copy	Delete	2	[{"name": "Citalopram", "price": 4, "quantityOrdered": 2, "quantityPurchased": 2, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-16 00:00:00"}]		0.00	0.00	12.00	2024-12-16 00:00:00
Edit	Copy	Delete	3	[{"name": "Ibuprofen", "price": 3, "quantityOrdered": 3, "quantityPurchased": 3, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-16 00:00:00"}]		0.00	0.00	9.00	2024-12-16 00:00:00
Edit	Copy	Delete	4	[{"name": "Ibuprofen", "price": 3, "quantityOrdered": 3, "quantityPurchased": 3, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-16 00:00:00"}]		5.00	5.00	8.98	2024-12-16 00:00:00
Edit	Copy	Delete	5	[{"name": "Amoxicillin", "price": 5, "quantityOrdered": 5, "quantityPurchased": 5, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-16 00:00:00"}]		0.00	0.00	15.00	2024-12-20 00:00:00
Edit	Copy	Delete	6	[{"name": "Aspirin", "price": 1.5, "quantityOrdered": 4, "quantityPurchased": 4, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-20 00:00:00"}]		0.00	0.00	6.00	2024-12-20 00:00:00
Edit	Copy	Delete	7	[{"name": "Amoxicillin", "price": 5, "quantityOrdered": 5, "quantityPurchased": 5, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-20 00:00:00"}]		0.00	0.00	27.00	2024-12-20 00:00:00
Edit	Copy	Delete	8	[{"name": "Ibuprofen", "price": 3, "quantityOrdered": 2, "quantityPurchased": 2, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-20 00:00:00"}]		0.00	0.00	6.00	2024-12-20 00:00:00
Edit	Copy	Delete	9	[{"name": "Ibuprofen", "price": 3, "quantityOrdered": 2, "quantityPurchased": 2, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-20 00:00:00"}]		0.00	0.00	6.00	2024-12-20 00:00:00
Edit	Copy	Delete	10	[{"name": "Ibuprofen", "price": 3, "quantityOrdered": 2, "quantityPurchased": 2, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-20 00:00:00"}]		0.00	0.00	6.00	2024-12-20 00:00:00
Edit	Copy	Delete	11	[{"name": "Aspirin", "price": 1.5, "quantityOrdered": 2, "quantityPurchased": 2, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-20 00:00:00"}]		0.00	0.00	3.00	2024-12-20 00:00:00
Edit	Copy	Delete	12	[{"name": "Ibuprofen", "price": 3, "quantityOrdered": 3, "quantityPurchased": 3, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-20 00:00:00"}]		0.00	0.00	9.00	2024-12-20 00:00:00
Edit	Copy	Delete	13	[{"name": "Citalopram", "price": 4, "quantityOrdered": 4, "quantityPurchased": 4, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-20 00:00:00"}]		0.00	0.00	40.00	2024-12-20 00:00:00
Edit	Copy	Delete	14	[{"name": "Amoxicillin", "price": 5, "quantityOrdered": 5, "quantityPurchased": 5, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-20 00:00:00"}]		0.00	0.00	15.00	2024-12-20 00:00:00
Edit	Copy	Delete	15	[{"name": "Amoxicillin", "price": 5, "quantityOrdered": 5, "quantityPurchased": 5, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-20 00:00:00"}]		0.00	5.00	19.95	2024-12-20 00:00:00
Edit	Copy	Delete	16	[{"name": "Aspirin", "price": 1.5, "quantityOrdered": 3, "quantityPurchased": 3, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-20 00:00:00"}]		5.00	5.00	31.42	2024-12-20 00:00:00
Edit	Copy	Delete	17	[{"name": "Amoxicillin", "price": 5, "quantityOrdered": 5, "quantityPurchased": 5, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-20 00:00:00"}]		5.00	15.00	16.95	2024-12-20 00:00:00
Edit	Copy	Delete	18	[{"name": "Amoxicillin", "price": 5, "quantityOrdered": 5, "quantityPurchased": 5, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-20 00:00:00"}]		0.00	0.00	10.00	2024-12-20 00:00:00
Edit	Copy	Delete	19	[{"name": "Omeprazole", "price": 4.5, "quantityOrdered": 5, "quantityPurchased": 5, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-20 00:00:00"}]		0.00	0.00	29.10	2024-12-20 00:00:00
Edit	Copy	Delete	20	[{"name": "Ranitidine", "price": 2, "quantityOrdered": 5, "quantityPurchased": 5, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-20 00:00:00"}]		5.00	10.00	29.67	2024-12-20 00:00:00
Edit	Copy	Delete	21	[{"name": "Ibuprofen", "price": 3, "quantityOrdered": 3, "quantityPurchased": 3, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-20 00:00:00"}]		5.00	15.00	16.95	2024-12-20 00:00:00
Edit	Copy	Delete	22	[{"name": "Aspirin", "price": 1.5, "quantityOrdered": 2, "quantityPurchased": 2, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-20 00:00:00"}]		0.00	0.00	3.00	2024-12-20 00:00:00
Edit	Copy	Delete	23	[{"name": "Aspirin", "price": 1.5, "quantityOrdered": 2, "quantityPurchased": 2, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-20 00:00:00"}]		0.00	0.00	3.00	2024-12-20 00:00:00
Edit	Copy	Delete	24	[{"name": "Ibuprofen", "price": 3, "quantityOrdered": 3, "quantityPurchased": 3, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-20 00:00:00"}]		0.00	0.00	9.00	2024-12-21 00:00:00
Edit	Copy	Delete	25	[{"name": "Clarithromycin", "price": 6, "quantityOrdered": 5, "quantityPurchased": 5, "dateOrdered": "2024-12-16 00:00:00", "datePurchased": "2024-12-21 00:00:00"}]		0.00	0.00	30.00	2024-12-21 00:00:00

Figure 5.61: Purchase Invoice DB Table

The screenshot shows the phpMyAdmin interface for a MySQL database named 'pharmacy'. The left sidebar shows various schemas and tables, including 'information_schema', 'mysql', 'performance_schema', and the 'pharmacy' schema which contains tables like 'clients', 'contact_messages', 'medicines', 'notes', 'pharmacists', 'private_notes', 'purchase_invoice', 'registration', 'suppliers', and 'test'. The main area displays the 'notes' table with the following data:

	Edit	Copy	Delete	id	t	is_complete	content
<input type="checkbox"/>	Edit	Copy	Delete	15	0	0	this text is for testing this page
<input type="checkbox"/>	Edit	Copy	Delete	11	0	0	hello this is a te...
<input type="checkbox"/>	Edit	Copy	Delete	9	0	0	make a new report , u can ed...
<input type="checkbox"/>	Edit	Copy	Delete	5	0	0	write a new report...

Below the table, there are buttons for 'Check all', 'With selected', 'Edit', 'Copy', 'Delete', and 'Export'. The 'Sort by key' dropdown is set to 'PRIMARY (DESC)'. The 'Query results operations' section includes 'Print', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view' buttons. There is also a 'Bookmark this SQL query' section with a 'Label' input field and a checkbox for 'Let every user access this bookmark'.

Figure 5.62: Notes DB Table

Chapter Six: System Testing and Installation

6.1 Introduction

System testing is a critical phase in software development, aimed at evaluating and validating the functionality and performance of a system against its defined requirements. For the UPHARMA Pharmacy Management System, this phase ensured the website meets functional and non-functional specifications while delivering a seamless user experience.

Testing involved Unit Testing, System Testing, and Acceptance Testing. Unit and System Testing were conducted by the development team, while Acceptance Testing involved end-users to validate the system's readiness. Various testing methodologies, including Compatibility, Usability, and Installation Testing, were employed to ensure all aspects of the system function correctly.

This chapter details the Heuristic and Cooperative Evaluation techniques used for usability testing in Sections 6.2 and 6.3, respectively. Requirements Validation is covered in Section 6.4, while Section 6.5 outlines the System Installation steps. The chapter concludes with a summary in Section 6.6.

6.2 Heuristic Evaluation

Heuristic evaluation involves experts reviewing the system's interface and functionality against established usability principles. For the UPHARMA website, An IT professional conducted this evaluation, assessing components such as navigation, database integration, and interface design.

Heuristic	Description
H1: Visibility of System Status	Provides real-time feedback on user actions, including inventory updates and notifications.
H2: Match Between System and Real World	Uses familiar language and logical design to align with user expectations.
H3: User Control and Freedom	Allows users to undo actions and easily navigate back to previous states.
H4: Consistency and Standards	Maintains uniform design and terminology across the website.
H5: Error Prevention	Incorporates design elements to minimize errors before they occur.
H6: Recognition Rather Than Recall	Ensures key actions and information are visible and easily accessible.

H7: Flexibility and Efficiency of Use	Supports both novice and expert users with tailored shortcuts and functionality.
H8: Aesthetic and Minimalist Design	Focuses on relevant information, avoiding unnecessary complexity.
H9: Help Users Recognize, Diagnose, and Recover from Errors	Provides clear, actionable error messages.
H10: Help and Documentation	Offers concise, task-oriented help guides accessible within the system.

Table 6.1: Usability Heuristics and Descriptions

Heuristic evaluation forms for UPHARMA are available in Appendix D.

6.3 Cooperative Evaluation

Participants were invited to test the website in a guided session. They were briefed on the system's features and provided task instructions. Feedback on usability issues and task completion times was collected for further analysis.

6.4 Evaluation Procedures

Tasks were categorized based on user roles (Admin, Pharmacist, and Customer). Participants performed specific tasks while their completion times and feedback were recorded.

Task No.	Task Description	Default Time	Participant 1	Participant 2	Participant 3	Average Time
A1	Admin Login	1:00	1:15	1:05	1:20	1:13
A2	Add Medicine	1:00	1:30	1:10	1:25	1:21
...

Table 6.2: Task Completion Times

Detailed results are summarized in Appendix E.

6.5 System Installation

The UPHARMA system installation involves the following steps:

1. **Environment Setup:** Install necessary software (Php , MySQL, etc.) and dependencies.
2. **Database Configuration:** Import the predefined database schema and populate tables with initial data.
3. **Website Deployment:** Host the system on a local or cloud server.
4. **Testing:** Verify connectivity between the backend, database, and front end.
5. **Access and Security:** Configure user roles and ensure secure login credentials.

6.6 Conclusion

This chapter outlined the testing and installation process for the UPHARMA Pharmacy Management System. Usability testing ensured the system met user expectations, while comprehensive evaluation procedures highlighted areas for improvement. Finally, detailed installation steps facilitated seamless deployment. The results demonstrate that UPHARMA is a robust and user-friendly system ready for real-world use.

Chapter Seven: Project Conclusion & Future Work

7.1 Introduction

As we conclude this project, we acknowledge that no project is without flaws, but we believe the **UPHARMA Pharmacy Management System** showcases our best efforts. Through the guidance of our advisor and leveraging the IT knowledge gained during our studies, we developed a functional, user-friendly website designed to streamline pharmacy operations.

This chapter discusses the system's weaknesses in Section 7.2 and its strengths in Section 7.3. Future enhancements are outlined in Section 7.4, and the chapter concludes with a summary in Section 7.5.

7.2 Overall Weaknesses

While the website delivers essential functionality, there are areas for improvement:

- **Internet Dependency:** The system requires an internet connection as the database is hosted on a server. Users with slow internet connections might experience delays, affecting their interaction with the system.
- **Limited Roles:** Currently, customers cannot log in, restricting access to features like personalized order tracking or cart management.
- **Static Features:** While the online store and search bar work, they are not fully dynamic in their current form, limiting their usability.

Despite these limitations, the project demonstrates significant progress and potential.

7.3 Overall Strengths

The **UPHARMA Pharmacy Management System** boasts several strengths:

- **User-Friendly Interface:** The system employs **Bootstrap**, **Font Awesome**, and other modern UI libraries to create an intuitive and responsive design.
- **Multimedia Integration:** Resources like **Pexels**, **Freepik**, and **Canva** enhanced the visual appeal, while **Google Fonts** and **Colorhunt** ensured a cohesive and professional aesthetic.
- **Accessibility and Features:** The site includes login functionality for admins and pharmacists, an inventory management system, and a visually appealing design optimized for both light and dark modes.
- **Development Resources:** Using tools like **GitHub**, **W3Schools**, **Google**, **GPT**, **Copilot**, and **YouTube**, we implemented best practices and ensured robust system functionality.

These features make the system a solid foundation for future enhancements.

7.4 Future Work

To expand the functionality and user experience of the system, we propose the following improvements:

1. **Arabic Language Support:** Introduce an Arabic version of the website to cater to a broader audience and ensure inclusivity.
2. **Light and Dark Modes:** Enhance the user interface by allowing users to toggle between light and dark modes based on their preferences.
3. **Dynamic Search Bar:** Make the search functionality dynamic to provide real-time results, improving the user experience when searching for medicines or suppliers.
4. **Dynamic Online Store:** Expand the online store to allow customers to browse and purchase medicines dynamically, with features like personalized recommendations.
5. **Customer Login:** Implement login functionality for customers, enabling features like personalized accounts, order tracking, and cart management.
6. **Payment Integration:** Integrate payment gateways like VISA and PayPal to facilitate online transactions securely.
7. **Notification System:** Develop a notification system to alert users of order updates or potential data breaches via email using **EmailJS**.
8. **Automated Chatbot for Queries:** Develop an AI-powered chatbot to handle customer queries, such as medicine availability, side effects, or dosage instructions.

These enhancements aim to make the system more versatile, secure, and user-friendly.

7.5 Summary

In this chapter, we outlined the weaknesses and strengths of the **UPHARMA Pharmacy Management System** and proposed future work to enhance its functionality. Despite some limitations, the project demonstrates a solid foundation and showcases our ability to develop practical, innovative solutions.

7.6 References and Appendix

Below are some of the primary resources and tools used during development:

Wikipedia https://www.wikipedia.org/	Copilot (GitHub Copilot) https://github.com/features/copilot
Google https://www.google.com/	GPT (ChatGPT by OpenAI) https://openai.com/
W3Schools https://www.w3schools.com/	Pinterest https://www.pinterest.com/
YouTube https://www.youtube.com/	Adobe Stock https://stock.adobe.com/
Bootstrap https://getbootstrap.com/	Gemini https://gemini.com/
Font Awesome https://fontawesome.com/	CodePen (Online Code Editor) https://codepen.io/
Canva https://www.canva.com/	VS Code (Visual Studio Code) https://code.visualstudio.com/
Pexels https://www.pexels.com/	Stack Overflow https://stackoverflow.com/
Freepik https://www.freepik.com/	Translate (Google Translate) https://translate.google.com/
Google Fonts https://fonts.google.com/	MySQL https://www.mysql.com/
Colorhunt https://colorhunt.co/	phpMyAdmin https://www.phpmyadmin.net/
EmailJS https://www.emailjs.com/	GitHub https://github.com/

Figure 7.1: References Table