Pharmacy Portal

1. Developed By
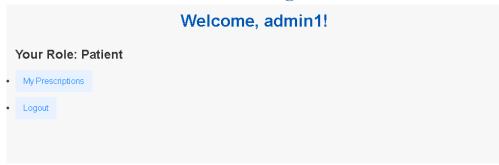
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2. Abstract

This project is a web-based application built using PHP and MySQL, designed to help pharmacists and patients manage medications, prescriptions, inventory, and sales effectively. The system features role-based access, automated inventory updates, and stored procedures for backend efficiency.
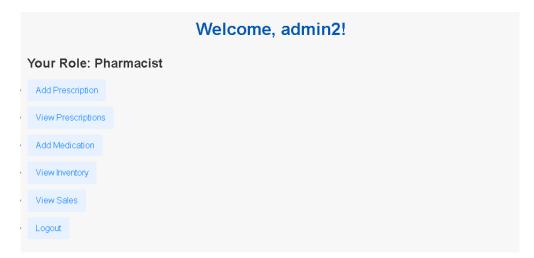
3. Objectives

- Provide a user-friendly portal for pharmacists and patients
- Enable secure login and role-based access control
- Maintain and manage medication inventory in real-time
- Automate record-keeping for prescriptions and sales
- Implement MySQL views, procedures, and triggers for business logic
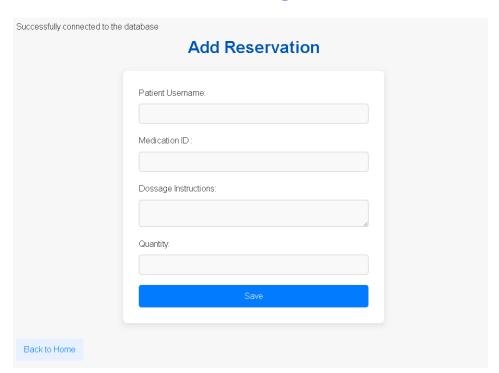
4. System Screenshots

Home Page

Welcome, admin1!

Your Role: Patient

- My Prescriptions
- Logout

Welcome, admin2!

Your Role: Pharmacist

- Add Prescription
- View Prescriptions
- Add Medication
- View Inventory
- View Sales
- Logout

Login Page

Login

Username:

admin1

Password: •••

Login

Don't have an account? Register

Add Prescription

Add Reservation

Patient Username:

Medication ID :

Dossage Instructions:

Quantity:

Save

Back to Home

View Prescriptions

All Prescriptions

Prescription ID	User ID	Medication ID	Medication Name	Dosage Instructions	Quantity
1	1	1	Paracetamol	Take one tablet every 4 hours	30
2	1	2	Ibuprofen	Take one tablet every 6 hours	20
13	1	1	Paracetamol	Take 1 tablet every 6 hours	30
14	2	2	Ibuprofen	Take 1 tablet daily	60

Back to Home

Add Medication

Add Medication

Medication Name:

Dosage:

Manufacturer:

Add Medication

Back to Dashboard

View Inventory

Successfully connected to the database

Medication Inventory

Medication Name	Dosage	Manufacturer	Quantity Available
Paracetamol	500mg	ABC Pharma	100
Ibuprofen	200mg	XYZ Labs	150
Paracetamol	500mg	ABC Pharma	200
Ibuprofen	200mg	XYZ Labs	150
Aspirin	325mg	HealthCorp	120
Amoxicillin	250mg	MediCo	80
Metformin	500mg	PharmaTech	100
Ciprofloxacin	500mg	MediHealth	200
Lisinopril	10mg	BioPharm	180
Omeprazole	20mg	PharmaBest	150
Simvastatin	20mg	TopMed	50
Furosemide	40mg	QuickPharm	300

Back to Dashboard

View Sales

Sales Data

Sale ID	Prescription ID	Sale Date	Quantity Sold	Sale Amount	Dosage Instructions	Medication Name
1	1	2025-05-05 23:28:22	2	20.00	Take one tablet every 4 hours	Paracetamol
12	1	2025-05-01 14:00:00	10	50.00	Take one tablet every 4 hours	Paracetamol
13	2	2025-05-02 16:30:00	5	25.00	Take one tablet every 6 hours	Ibuprofen

Back to Home

5. Database Schema

Users
userId INT PRIMARY KEY AUTO_INCREMENT
userName VARCHAR(45) UNIQUE
contactInfo VARCHAR(200)
userType ENUM('pharmacist', 'patient')
password VARCHAR(255)

Medications
medicationId INT PRIMARY KEY AUTO_INCREMENT
medicationName VARCHAR(45)
dosage VARCHAR(45)
manufacturer VARCHAR(100)

Prescriptions

prescriptionId INT PRIMARY KEY AUTO_INCREMENT

userId INT

medicationId INT

prescribedDate DATETIME

dosageInstructions VARCHAR(200)

quantity INT

refillCount INT DEFAULT 0

Inventory

inventoryId INT PRIMARY KEY AUTO_INCREMENT

medicationId INT

quantityAvailable INT

lastUpdated DATETIME

Sales

saleId INT PRIMARY KEY AUTO_INCREMENT

prescriptionId INT

saleDate DATETIME

quantitySold INT

saleAmount DECIMAL(10,2)

6. Backend Features

- Stored Procedure: AddOrUpdateUser - Manages creation or update of user records.
- Stored Procedure: ProcessSale - Handles sales logic and inventory reduction.
- View: MedicationInventoryView - Shows medication and real-time stock levels.
- Trigger: AfterPrescriptionInsert - Reduces inventory automatically after new prescription.

7. Testing & Validation

- Login and session validation tested
- Prescriptions successfully insert and show in the list
- Inventory updates tested via trigger
- View-based inventory read works accurately
- Sales tested with foreign key compliance

8. Future Enhancements

- PDF exports for prescriptions and sales
- Patient email notifications
- Admin panel for analytics and management

9. Conclusion

The system fulfills the objectives outlined in the project scope. It integrates PHP with MySQL effectively to handle real-world pharmacy operations while maintaining data integrity through relational design, stored procedures, views, and triggers.