Pharmacy Portal Project Report

Course: CIS 344 - Spring 2025  
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Project Title: Pharmacy Management System

Project Overview

The goal of this project was to build a web-based pharmacy management system using PHP and MySQL. The system helps pharmacists and patients manage medications, prescriptions, inventory, and sales. It includes secure login, role-based access, and a simple dashboard for tracking data.

Main Features

* Dashboard: Shows total users, medications, prescriptions, and top prescribed medication.
* Add Prescription: Pharmacists can add new prescriptions by choosing a patient and medication from dropdown menus.
* View Prescriptions: Displays all prescriptions in a table with options to edit or delete them.
* Add Medication: Allows pharmacists to add new medications to the system.
* Inventory View: Shows current stock levels for each medication.
* Process Sale: Lets pharmacists record a sale, update inventory, and log transaction details.
* Register User: Admins can register new users as patients or pharmacists.

Technologies Used

* Frontend: HTML, CSS (custom and Bootstrap optional)
* Backend: PHP (with classes)
* Database: MySQL (with foreign keys, views, and sample data)

Security

* Passwords are hashed using password\_hash()
* Login system uses sessions to keep users secure

Challenges

* Making sure all foreign key data existed to avoid errors
* Getting dropdown menus to load the right values
* Making the system easy to use without complex forms

What I Learned

* How to use PHP with MySQL and prepared statements
* How to structure a project with multiple files and good organization
* How to fix errors and debug by using error reporting
* The importance of testing with sample data