Henrietta Yeboah

This report details implementation of a pharmacy Management system by the use of PHP and MySql. This platform was designed to allow pharmacists to be able to manage and add prescriptions and even track inventory and sales and for patients to be able to securely access their prescription information. The platform supports two primary users: pharmacists and patients.

Pharmacists can :

Add Medication or manage medication (inventory)

They can add Prescription for patients and also view all prescriptions

Patients can:

View their prescriptions that they have in the pharmacy.

Project Overview:

The system has been designed to :

Verify users: it checks to see if a patient or pharmacist exists in the system and if they are not it creates a new record for them.

Provide Secure Access: This platform uses secure login, password hashing and session management to main data integrity and security.

Manage Prescriptions: Pharmacists are able to add prescriptions and associate them with both users and medications.

Manage Medication and Inventory: Pharmacists can add medications and the platforms will automatically update it in the inventory.

For the DataBase design, we utilize five main tables.

The users table : Which stores pharmacists and patients. So if a patient or pharmacist registers, their information is sent here. It used userId as the primary key

The medications table : It stores medication information and has medicationId as the primary key.

The prescriptions table : It stores prescription information that the pharmacist prescribes to the patient. It has prescriptionId as the primary key.

The inventory table : Which serves to track the medication that we have in stock. It uses inventoryId as the primary key and has the foreign key as medicationId to reference medications so it can keep stock.

The sales table : Which tracks the medication that the patients purchase that was prescribed to them by the pharmacist.

Stored procedures :

AddOrUpdateUser : handles the insertion and updating of user records.

ProcessSale : Deals with medication sales and ensures that the inventory is updated and verifies the stock.

View:

medicationInventoryView : it joins the medications details with available inventory.

Trigger:

AfterPrescriptionInsert : It automatically reduces inventory after a new prescription is added and alerts if the inventory becomes low.

PHP Implementation:

Database Connection : PharmacyDatabase.php

This handles connection management for functions like prescription, medication and user

Functions are:

addPrescription : To insert a prescription after verifying a patient and also possibly automatically adding a patient if not in the system.

getAllPrescription : Retrieves prescriptions with medication details and user information.

addMedication : Inserts new medication records.

medicationInventory > Gets inventory records from the medicationinventoryview.

addUser : Checks of a user already exist before adding a new one.

loginUser and registerUser : Manages user and registration processes , including secure password handling.

Routing of requests : PharmacyServer.php

It handles request routing based on the action parameter (login, register, viewPrescription).

Routes include login, registration and viewing prescriptions.

Templates : Home, login, register and viewPrescription pages

The home page provides a navigation link to login or register. The login and registration pages (loginView and registerView) are integrated with the php backend. Login.php and register.php. Login.php allows users to login to their and it verifies if they are a patient or pharmacist and takes them to their respective pages. The register.php, allows new users to register their accounts.

Dashboards :

Patient Dashboard : Displays the user specific prescriptions.

Pharmacist Dashboard : Shows the view of the medication inventory and it has links like add medication or add prescription or view prescription for the pharmacist.

Logout.php : Just destroy the session