Pharmacy Portal Express

Prof. Yanilda Peralta

By Carina Vargas

May 14th, 2025

This Pharmacy Portal Express is a web application to manage pharmacy tasks like adding medications, handling prescriptions, registering users, and viewing inventory. It helps pharmacists, patients, and admins use the system easily.

The code starts a session to keep track of users who log in. It creates an object of the Pharmacy Portal class.

This class controls what the website does based on what the user wants (like logging in, adding medication, or viewing prescriptions).

Handling User Requests The portal checks the "action" sent by the user through the web address.

For example, if the user wants to add medication, the action will be "addMedication".

The portal looks at the action and runs the matching function.

User Login When a user tries to log in, the portal checks the username and password. If the login is correct, it saves the user's info in the session and sends them to the home page.

If the login is wrong, it shows an error message.

Registering a Patient A new patient can register with a username, email, contact info, and password.

The portal checks if the username is already taken.

If not, it adds the patient to the database.

If registration works, it asks the patient to log in.

Adding Medication A pharmacist can add new medication by filling a form with:

- Medication name

- Dosage

- Manufacturer

- Quantity available

The portal checks the form and saves the new medication to the database.

It then shows a success or error message.

Managing Prescriptions Patients can see their prescriptions.

Pharmacists and admins can see all prescriptions.

The portal gets prescription data from the database and shows it.

Viewing Inventory Pharmacists can view all the medication available in the pharmacy.

The portal gets the inventory list from the database and shows it.

Adding and Updating Users Admins can add new users or update existing users.

The portal takes the user info and saves it in the database.

Logging Out When a user logs out, the portal ends their session and sends them to the home page.

How the Code Works Step-by-Step The user visits the website and picks an action (like login or add medication).

The portal looks at the action and runs the correct function.

If the action needs to show a form, the portal shows the form page.

If the action is to submit data, the portal checks the data and saves it.

The portal shows messages to the user about success or errors.

The portal uses sessions to remember who the user is.

The portal uses a database class to talk to the database and save or get data.

Pharmacy Portal Express is a simple and helpful tool to manage pharmacy tasks. It keeps the system safe by checking users' access and helps users easily add or see medications and prescriptions.