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Project Assignment 1 Front End Requirements

❖ Welcome Message

Figure 1 shows a screenshot of the web interface taken after modifying the template code provided to add a welcome message.

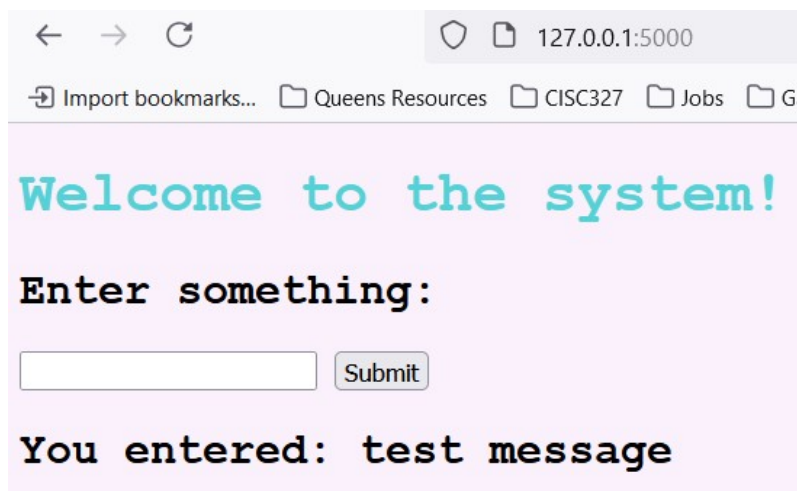


Figure 1: A welcome message displayed on the modified web interface.

❖ Definitions

To reduce ambiguity in the functional requirements, some key definitions are given.

The term **administrator** refers to *our* customers, the actual users of the medicine management system. That is, it designates pharmacists and pharmaceutical assistants. A **client** refers to the *administrator's* customers. These are ordinary people who are using the services provided by the pharmacy to get prescriptions filled.

Furthermore, a **supply order** is a request for medicine to be delivered to the pharmacy, submitted by administrators to restock the inventory. Key information it contains are the drug identifiers, the desired quantity, and the order status. Conversely, a **prescription order** is a request that a prescription be fulfilled, committed by the clients and logged by the administrator. The details included are the client's identifiers, the drug's identifiers, the prescribed dosage and the order status.

❖ Functional Requirements

As derived from the problem statement, here are some important functional requirements for the medicine management software:

1. Administrators shall be able to create a prescription order for a client.
2. Administrators shall be able to view and update the status of a client's prescription.
3. Administrators shall be able to search their inventory for detailed information about a particular drug, namely its identifiers, quantity in stock, dosage instructions, ingredients, and side effects.
4. Administrators shall be notified of significant changes in their inventory, notably medicines out of stock or recently restocked.
5. Administrators shall be able to create a supply order to restock their inventory.
6. Administrators shall be able to view and update the status of created supply orders.
7. Administrators shall be able to log into the system.

❖ Front-End Test Cases

This section details a number of test cases which cover the functional requirements, as seen from a front-end view.

Requirement 1: Administrators shall be able to create a prescription order for a client.

Test Case Name: PrescriptionCreation

Objective	To verify that users are able to create a new prescription order for a client.
Action	Press the “New Prescription” button on a client’s page.
Assert	Ensure that a pop-up appears wherein a user can enter new information about a prescription. Once all information is filled out, and the “save” button is pressed, the user should see the new prescription on the client’s page.

Requirement 2: Administrators shall be able to view and update the status of a client's prescription.

Test Case Name: ClientLookup

Objective	To verify that users are able to look up a client by their name or phone number.
Action	On the client look-up page, enter the client's name and/or phone number into the search bar.
Assert	Confirm that if there is a client under that name and number, that they will appear in the search results. If not, a message saying "Client not found" will be displayed.

Test Case Name: ViewPrescriptions

Objective	To verify that users are able to view a client's prescription history and status of each prescription on that client's page
Action	Click on the client's page from the search results on the look-up page.
Assert	Confirm that all client information comes up correctly, with each prescription appearing with the necessary information about the drug and with a clear section showing the status.

Test Case Name: ChangePrescriptionStatus

Objective	To verify that users are able to change a prescription's status from a dropdown menu.
Action	From the client's page, find the prescription needing to be updated, and switch the status from the dropdown menu in that entry.
Assert	Ensure that the dropdown menu deploys, and when an option is selected from the menu, it closes and the selection replaces the previous text in the status box.

Requirement 3: Administrators shall be able to search their inventory for detailed information about a particular drug, namely its identifiers, quantity in stock, dosage instructions, ingredients, and side effects.

Test Case Name: DrugLookup

Objective	To verify that users are able to look up a drug by its name or DIN.
Action	On the inventory page, enter the drug's name and/or DIN into the search bar.
Assert	Confirm that if there is a drug under that name/DIN, that it will appear in the search results. If not, a message saying "Drug not found" will be displayed.

Test Case Name: ViewDrugInfo

Objective	To verify that users are able to view a drug's information on the drug's information page.
Action	Click on the drug's page from the search results on the inventory page.
Assert	Confirm that all drug information comes up correctly. It should show drug name and DIN, description of uses, ingredients, side effects and amount in stock.

Requirement 4: Administrators shall be notified of significant changes in their inventory, notably medicines out of stock or recently restocked.

Test Case Name: InventoryNotification

Objective	To verify that users will receive a notification when a stock of a drug reaches 0, or increases.
Action	Click on the notification center.
Assert	Ensure that a notification symbol appears on the notification center when the stock of a drug reaches 0 or increases. Ensure the notification center shows a message when clicked, showing relevant information (inventory of x drug is empty / x amount of drug received, current stock at z).

Requirement 5: Administrators shall be able to create a supply order to restock their inventory.

Test Case Name: SupplyOrderCreation

Objective	Verify that administrators can successfully submit an order for more supplies.
Action	From a drug's information page, enter the desired quantity and press on an "Order" button.
Assert	Ensure that a confirmation message is displayed and that the order has appeared on the supply order history page with matching information: drug name and DIN, quantity, date created, order number, and a valid status.

Requirement 6: Administrators shall be able to view and update the status of created supply orders.

Test Case Name: ViewSupplyOrderHistory

Objective	Verify that administrators can view an accurate list of past and current supply orders they have created.
Action	Press the "Supply Order History" button from the main page.
Assert	Ensure the user is redirected to a page with two sections, in-progress orders and historic orders. For each category, check that there are entries or a message indicating that no orders exist. Ensure that any entries have an allowable status ("Delivered" or "Canceled" for historic orders and "Processing" and "Shipped" for in-progress orders).

Test Case Name: CancelSupplyOrder

Objective	Verify that administrators can successfully cancel an in-progress supply order.
Action	On the supply order page, press a "Cancel Order" button on an order with the "Processing" status.
Assert	Confirm that the order status is updated to "Canceled" and the supply order moves to the historic orders section.

Requirement 7: Administrators shall be able to log into the system.

Test Case Name: Login

Objective	Verify that administrators can successfully verify their identity and log into their account.
Action	On the login page, fill in valid user details (employee number, password) and click on the login (“Continue”) button.
Assert	If login credentials are valid, ensure that the administrator is redirected to the system’s home page. Otherwise, check that an error message is indicated.

❖ **User Interface**

Finally, a conceptual user interface which would enable each functional requirement can be found at the link below. Please note that frames are provided to satisfy each requirement, but as this is just a sketch, not every individual aspect is simulated and placeholder text is used throughout.

Link:

<https://www.figma.com/design/DCfVrsJgNQmRz1FAguKHF1/mockup?node-id=0-1&t=PUOPW8XTpOS64I7W-1>