

Test Cases for Project Modules

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User Login Module

Instructions: Below are the test scenarios for the User Login module.

1. Test Scenario 1: Successful Login as a Patient

Input: Username: hxf1z, Password: password123

Expected Output: "Login successful! Welcome, hxf1z!", and the Patient Menu is displayed.

2. Test Scenario 2: Successful Login as a Doctor

Input: Username: dr.smith, Password: docpass

Expected Output: "Login successful! Welcome, dr.smith!", and the Doctor Menu is displayed.

3. Test Scenario 3: Successful Login as an Admin

Input: Username: admin, Password: adminpass

Expected Output: "Login successful! Welcome, admin!", and the Admin Menu is displayed.

4. Test Scenario 4: Failed Login with a Wrong Password

Input: Username: hxflz, Password: wrongpass

Expected Output: "Login failed. Invalid username or password."

5. Test Scenario 5: Failed Login with a Non-Existent Username

Input: Username: nonexistent.user, Password: anypassword

Expected Output: "Login failed. Invalid username or password."

Patient Registration Module

Instructions: Below are the test scenarios for the Patient Registration module.

- 1. Test Scenario 1: Successful Registration of a New Patient** Input: Valid and unique details for a new user.

Expected Output: "Account created successfully! Welcome, [Name]!" and the system returns to the main menu.

- 2. Test Scenario 2: Failed Registration with an Existing Username** Input: Valid details but with an existing username (e.g., dr.smith).

Expected Output: "Registration failed. Please try again with a different username."

- 3. Test Scenario 3: Failed Registration with Missing Required Fields** Input: Leave a field (e.g., name or username) empty.

Expected Output: "Registration failed. Please fill in all required fields."

Patient Appointment Booking Module

Instructions: Below are the test scenarios for the Patient Appointment Booking module.

1. Test Scenario 1: Successful Booking of an Appointment

Input: Patient selects a doctor and an unbooked slot by number. Confirmation: yes.

Expected Output: "Appointment successfully booked!" The appointment is added to the database, and the slot's status is changed to booked.

2. Test Scenario 2: Booking Fails Due to No Available Slots for the Selected Doctor

Input: Patient selects a doctor with all slots already booked.

Expected Output: "No available slots for this doctor at the moment."

3. Test Scenario 3: Booking Fails Due to Invalid Slot Selection

Input: Patient selects a doctor but enters a number that is not in the displayed list.

Expected Output: "Invalid number. Please enter a number from the list."

Patient Appointment Cancellation Module

Instructions: Below are the test scenarios for the Patient Appointment Cancellation module.

1. Test Scenario 1: Successful Cancellation of an Existing Appointment

Input: Patient selects an appointment to cancel by number. Confirmation: yes.

Expected Output: "Appointment [ID] has been successfully canceled." The appointment status is updated to CANCELED and the corresponding slot is marked as unbooked in the database.

2. Test Scenario 2: Cancellation is Aborted by the User

Input: Patient selects an appointment but confirms with no.

Expected Output: "Cancellation request aborted." The appointment status remains unchanged.

Doctor Check-in Module

Instructions: Below are the test scenarios for the Doctor Check-in module.

1. Test Scenario 1: Successful Check-in for a Doctor Input:

Doctor logs in and selects the "Check-in" option.

Expected Output: "You have successfully checked in for your shift, Dr. [Username]."

Doctor Set Availability Module

Instructions: Below are the test scenarios for the Doctor Set Availability module.

1. Test Scenario 1: Successful Creation of a New Availability Slot Input:

Doctor provides a valid date, start time, and end time.

Expected Output: "Availability slot successfully added..." and the new slot is added to the database.

2. Test Scenario 2: Failed Creation Due to Missing Input Input: Doctor

leaves one of the fields empty.

Expected Output: "Error: All fields are required."

Doctor View Appointments Module

Instructions: Below are the test scenarios for the Doctor View Appointments module.

1. Test Scenario 1: Doctor Views Their Scheduled Appointments

Successfully Input: Doctor logs in and selects "View My Appointments."

Expected Output: A formatted list of their appointments, showing the patient's name and appointment details.

2. **Test Scenario 2: Doctor Has No Appointments Scheduled** Input: A doctor logs in but has no appointments in the database.

Expected Output: "You have no appointments scheduled."

Doctor Cancel Appointment Module

Instructions: Below are the test scenarios for the Doctor Cancel Appointment module.

1. **Test Scenario 1: Successful Cancellation of an Existing Appointment** Input: Doctor selects an appointment to cancel by number. Confirmation: yes.
Expected Output: "Appointment [ID] has been successfully canceled." The appointment status is updated and the slot is unbooked.