

End-To-End Tests and Results

1.1. Authentication

S/N	Test Description	Expected Result	Pass/Fail
01	<u>[Fail to login]</u> (a) Enter wrong/invalid userID for the selected role. (b) Enter wrong/invalid password for a correct userID.	When (a) and (b) occurs, the user would not be able to login. The user is given 3 attempts before being prompted if they want to exit.	Pass
02	<u>[Successful login]</u> (a) Users enter the correct userID and password for the selected role.	User logs in successfully. Depending on which user role is selected, different menu lists would be displayed.	Pass
03	<u>[Change Password]</u> (a) Upon successful login, the user changes their password by entering the old password. (b) Upon successful login, the user changes their password by entering the new password.	(a) User fails to change the password and an error message is shown. (b) Passwords changed. Logging into the same account with the new password is required subsequently after logging out. Relevant data files are updated.	Pass

1.2. Patient Functionality

S/N	Test Description	Expected Result	Pass/Fail
01	<u>[View Patient Details]</u>	All of the specific patient details are shown.	Pass
02	<u>[Create Appointment]</u> (a) Patient keys in the doctorID of the doctor they would like to see, an appointment date and select an appointment time slot for that day.	(a) Patients successfully booked an appointment with the specified doctorID on a particular date and time. Relevant data files are updated.	Pass

		<ul style="list-style-type: none"> (b) Patient chooses a date with a scheduled appointment, and an error message is thrown to inform them to choose another day. (c) Patient has indicated an invalid date format, and an error message is thrown to guide them on the format required. (d) Patient indicates a time slot that is not available, and an error message is thrown to inform them to choose another time slot. 	
03	<u>[Cancel Appointment]</u> <ul style="list-style-type: none"> (a) Patient keys in the correct appointmentID to cancel the appointment. (b) Patient keys in the wrong appointmentID. 	<ul style="list-style-type: none"> (a) Patient cancels the specified appointment and the relevant data files are updated. (b) Patient fails to cancel the specified appointment and an error message is thrown to get the patient to verify input details. Patient is prompted to try again. 	Pass
04	<u>[View Available Appointment Slots]</u> <ul style="list-style-type: none"> (a) Patient enters the doctorID and date to view the available time slots of that particular doctor on that particular date. 	<ul style="list-style-type: none"> (a) Patient successfully keys in a valid doctorID and a valid date with available time slots to view the list of available time slots. (b) Patient indicates an invalid date with no available time slots, and an error message is thrown to inform the patient. 	Pass

1.3. Doctor Functionality

S/N	Test Description	Expected Result	Pass/Fail
01	<u>[View Personal Schedule]</u>	The doctor's schedule for the week is displayed	Pass
02	<u>[Update Patient Medical Record]</u> Doctor chooses either; 1. Add new diagnosis for patient a. Doctor enters the diagnosis for the patient. 2. Add new prescription for patient a. Doctor enters the prescription for the patient.	Doctor chooses option 1: (a) The existing diagnosis in the "New Diagnosis" column in the data file will be concatenated with the content in the "Past Diagnosis" field. (b) The diagnosis entered by the doctor will be updated in the "New Diagnosis" columns of the data file. (c) Successful update message is displayed Doctor chooses option 2: (a) The existing prescription in the "New Prescription" column in the data file will be concatenated with the content in the "Past Prescription" field. (b) The prescription entered by the doctor will be updated in the "New Prescription" columns of the data file. (c) Successful update message is displayed	Pass
03	<u>[Accept or Decline Appointment Request]</u> Doctor chooses either; 1. Accept Appointment Request a. Doctor enters the RequestID of the appointment request the doctor wishes to accept.	Doctor chooses option 1: (a) Doctor enters requestID (b) Display error message if requestID entered does not exist (c) In the doctor's personal schedule, the status of the slot requested by the patient will change from	Pass

	<p>2. Decline Appointment Request</p> <p>a. Doctor enters the RequestID of the appointment request the doctor wished to decline</p>	<p>“Available” to the patientID of the patient that requested the appointment slot. Relevant data files are updated.</p> <p>(d) The status of the Appointment request is changed from “Pending” to “Confirmed”. Relevant data files are updated.</p> <p>Doctor chooses option 2:</p> <p>(a) Doctor enters requestID</p> <p>(b) Display error message if requestID entered does not exist.</p> <p>(c) The status of the Appointment request is changed from “Pending” to “Canceled”. Relevant data files are updated.</p>	
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1.4. Pharmacist Functionality

S/N	Test Description	Expected Result	Pass/Fail
01	<u>[View Appointment Outcome Record]</u>	All appointment outcome details, including prescribed medications, are displayed.	Pass
02	<p><u>[Update Prescription Status]</u> Pharmacist keys in the AppointmentID of the patient they want to update the prescription of.</p> <p>(a) Pharmacist enters the correct appointmentID to update the prescription status to "dispensed."</p> <p>(b) Pharmacist enters an incorrect appointmentID.</p>	<p>(a) Prescription status for the specified appointmentID is updated to "DISPENSED" and reflected in patient records; relevant data files are updated.</p> <p>(b) Pharmacist fails to update the prescription status due to an incorrect appointmentID; an error message is displayed.</p>	Pass
03	<u>[Submit Replenishment Request]</u>	(a) Replenishment request is	Pass

	Pharmacists enter the medicine name for which they want to submit a replenishment request.	<p>submitted successfully for the specified medicine name, and the replenishment status is set to "PENDING." Data file is updated.</p> <p>(b) No replenishment request is submitted as stock levels are sufficient; a message informs the pharmacist that stock is sufficient.</p>	
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1.5. Administrator Functionality

S/N	Test Description	Expected Result	Pass/Fail
01	<p><u>[View and Manage Hospital Staff]</u></p> <p>(a) Administrators can view the list of hospital Staff after choosing the option "View staff list".</p> <p>(b) Administrator keys in StaffID, Name, Role, Gender and Age for adding/updating.</p> <p>(c) Administrator keys in valid StaffID for removal.</p> <p>(d) Administrator keys in invalid StaffID for removal</p>	<p>(a) The Displayed Staff List is updated with any changes.</p> <p>(b) Staff is added/updated and the csv files are updated.</p> <p>(c) Staff is removed and the csv files are updated.</p> <p>(d) Error message is thrown to inform the administrator.</p>	Pass
02	<u>[View Appointments Details]</u>	All of the required appointment details are shown.	Pass
03	<p><u>[Manage Medication Inventory]</u></p> <p>(a) Administrator keys in medicine name, initial stock level and low stock alert.</p> <p>(b) Administrator keys in valid medicine name for updating stock / low level alert</p> <p>(c) Administrator keys in invalid medicine name for updating stock / low level alert</p>	<p>(Medicine is added and the csv is updated.</p> <p>(a) Stock / low level alert is updated in the csv.</p> <p>(b) Error message is thrown to inform the administrator</p>	Pass

04	<u>Approve Replenishment Requests</u> (a) Administrator keys in valid RequestID for approval of replenishment request (b) Administrator keys in invalid RequestID for approval of replenishment request	(a) Stock and Status are updated in the csv. (b) Error message is thrown to inform the administrator	Pass
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1.6. Error Handling

S/N	Test Description	Expected Result	Pass/Fail
01	<u>Invalid Inputs</u> Entering an invalid input when for userID, password or when selecting from the menu list.	A message that prompts the user either to provide a valid input or the error occurred.	Pass