

Test Plan

Requirement	Use case	Inputs	Outputs	DB changes	Test proc.
Add admin	Add admin	i) "John" ii) 1234 iii) "abcd"	i) Success, John added as admin ii) Success, person with id=1234 added as admin iii) Failed. No person with name "abcd"	i) John added to admin table. ii) 1234 added to admin table iii) -	Screen: add admin To do: fill name/id in the form. Click submit.
Assign support staff duties	View currently assigned duties	i) "James" ii) "abcd"	i) Duties of John ii) Error message. Invalid name.	i) - ii) -	Screen: Assign support staff To do: fill name, click Submit.
	Remove some duty	Person: John	i) Successfully removed duty.	i) Delete duty from the tables assg_to and handle.	Screen: Assign support staff To do: Click on cross corresponding to the duty.
	Add a new duty	Person: John	i) Room: 212 Equipment: "Radiography" ii) Room: 200002 Equipment: "Radiography" iii) Room: 212 Equipment: "Fun"	i) Added new duty. ii) Wrong room number. iii) Wrong equipment.	Screen: Assign support staff To do: Click on add. Fill the form with room and equipment. Click submit.
Personal info	View	-	Dashboard loads	-	Screen: View/Modify personal info

	Modify	i) Name: "Thomas" ii) address: "Mumbai" iii) Pincode: 400096 iv) Phone: 1234567890 v) Pin code: 000000 vi) Phone: 12345	i) Update name ii) Update address iii) Update pincode iv) Update phone v) Incorrect pin code vi) Incorrect phone number	i,ii,iii,iv) Update the corresponding field v,vi) -	Screen: View/Modify personal info To do: Update the form appropriately, click Update. * Will check that pasting the url without logging in should not load the dashboard.
	Modify disease history	i) Flu, link if any ii) No_such_disease, link if any	i) Add Flu, and the link ii) Incorrect disease	i) Update history for the person ii) -	Screen: View/Modify personal info To do: Update the form appropriately, click Update.
Book appointments	View available slots	i) 12/03/2021, "Skin specialist" ii) 34/02/2000 "Skin specialist" iii) 12/03/2021 "no_such_specialist"	i) Show free slots of skin doctors on 12/03/2021 ii) Wrong date iii) No such special doctor.	i,ii,iii) -	Screen: Book appointments To do: Fill speciality if any, date, click Submit
	Book an appointment	i) Dr. Biswas, 9-9:30 am ii) Dr. Biswas, 10:10:30 am	i) Booked ii) Doctor is busy	i) Insert into appointment, patient, meet tables ii) -	Screen: Book appointments To do: Click on the slot from the list of slots for Dr. Biswas.
	Cancel an appointment	i) "Dr. Biswas", 12/03/2021, 9-9:30 am	i) Remove appointment from upcoming list.	i) Delete from appointment, patient, meet tables.	Screen: Cancel appointments To do: Click

					on cross corresponding to the appointment
Book/cancel a follow up	View available slots	i) 12/03/2021, Dr. Biswas ii) 34/02/2000 Dr. Biswas	i) Show free slots of skin doctors on 12/03/2021 ii) Wrong date	i,ii,iii) -	Screen: Book follow-up To do: Choose date
	Book a follow-up	i) Dr. Biswas, 9-9:30 am ii) Dr. Biswas, 10:10:30 am	i) Booked ii) Doctor is busy	i) Insert into appointment, meet tables ii) -	Screen: Book follow-up To do: Click on the slot from the list of slots for Dr. Biswas.
	Cancel a follow-up	i) "Dr. Biswas", 12/03/2021, 9-9:30 am	i) Remove appointment from upcoming list.	i) Delete from appointment, meet tables.	Screen: Cancel appointment To do: Click on cross corresponding to the appointment
Book/cancel tests	Book a new test	i) Blood test, 12/03/2021 ii) No_such_test, 12/03/2021 iii) Blood test, 121/03/2021	i) Booked ii) Error, no such test iii) Error, invalid date	i) Insert into the table takes ii) - iii) -	Screen: Book test To do: Fill the form with test name and date, click submit.
	Cancel a test	i) Blood test, 12/03/2021 ii) No_such_test, 12/03/2021 iii) Blood test, 121/03/2021	i) Cancelled ii) Error, no such test iii) Error, invalid date	i) Delete from the table takes ii) - iii) -	Screen: Tests To do: Click on cross corresponding to the test.
Administer test, enter into db	Add test results	i) Patient_id, blood test, Result file path, "test	i) Result added ii) Patient not registered for	i) Look up takes entry containing the	Screen: Add test results To Do: select patient, test

		result ok" ii) patient_id (not booked for blood test) , blood test, result file path, "test result ok"	test	patient_id, test_id, date correspondin g to the test being administered, add the result file location and comments, new bill is generated for this test and the bill_id is updated in the takes table. ii) Nothing until correct patient, test pair is chosen	to be delivered, location of test file (or none), add comment and click confirm
Augment disease database	Add disease to db	i) Malaria, https://www.healthline.com/health/malaria ii) Malaria (already present), https://www.healthline.com/health/malaria	i) Malaria added to the list of diseases ii) Report that disease already exists	i) Add malaria with it's info link to the disease table ii) no change	Screen: Disease To do: click on add new disease, write the disease name and enter info link url, click submit
Augment symptom database	Add symptom to db	i) Headache ii) Headache (already in db)	i) Headache added to the list of symptoms ii) Report that symptom already exists	i) Add headache to the symptom table ii) no change	Screen: Symptom To do: click on add new symptom, write the symptom name and click submit
Allot room for appointment	Allot room for appointment	i) Choose the doc_slot entry for which room	i) Room changed ii) Error, room already	i) Change the room_id in doctor_room _slot table.	Screen: Rooms To do: select doc slot entry

		no needs to be updated, and enter new room_id ii) Choose the doc_slot entry for which room no needs to be updated, and enter new but invalid (ex, previously occupied) room_id	occupied in this time slot	ii) No change	among the valid ones shown, click the room entry, add new room id, click submit
Decide available slots	Add slot	i) Choose an empty slot	i) Confirm if doctor wants to add the slot, then add	i) add corresponding date, time to doc_room_slot table	Screen: slots To do: click on empty slot, click yes when asked to add slot
	Delete slot	i) Choose an already chosen slot that is empty ii) Choose an already chosen slot that is booked by someone	i) Confirm if want to remove empty slot ii) Confirm if want to remove booked slot, thereby cancelling appointment	i) Remove entry from doc_room_slot table ii) Remove entry from doc_room_slot, remove entry from meet, notify patient that appointment is cancelled	Screen: slots To Do: click on already chosen slot, click yes when prompted
Manage doctors and support staff in hospital	Remove doctor	i) Doctor to be removed	i) Doc removed	i) Remove doctor's entry from doctor table, cascade etc handled by db	Screen: Manage doctors To Do: click on the cross for the doctor to be removed, confirm when prompted
	Update	i) Doctor to	i) Doc	i) Update	Screen:

	doctor info	be updated, updated values for salary, charges, permanent status	updated	doctor's entry in doctor table	Manage doctors To Do: click on the update button for the doctor to be updated, add updated values else dont change, confirm when prompted
	Remove support staff	i) Support staff to be removed	i) Support staff removed	i) Remove staff's entry from support_staff table, cascade etc handled by db	Screen: Manage support staff To Do: click on the cross for the staff to be removed, confirm when prompted
	Update staff info	i) Staff to be updated, updated values for salary, role	i) Support updated	i) Update staff's entry in support_staff table	Screen: Manage support staff To Do: click on the update button for the staff to be updated, add updated values else dont change, confirm when prompted
Fill prescriptions, symptoms, disease	Select appointment	i) Doctor chooses one from the set of appointments he is involved in	i) Chosen appointment is remembered and screen moves forward	i) Nothing yet	Screen: Post Appointment (1) To do: Click on circle beside appointment
	Select diseases	i) Doctor chooses one or more	i) Diseases chosen are marked in	i) Disease - patient mapping	Screen: Post appointment (2)

		diseases from the list of diseases in the DB	blue	added to "suffers" table.	To do: Click on circles beside diseases
	Select symptoms	i) Doctor chooses one or more symptoms from the list of symptoms in the DB	i) Symptoms chosen are marked in blue	i) Symptom - patient mapping added to "shows" table.	Screen: Post appointment (2) To do: Click on circles beside symptoms
	Select medicine	i) Doctor chooses one or more medicines from the list of medicines in the DB	i) Medicines chosen are marked in blue	i) Nothing yet	Screen: Post appointment (3) To do: Click on circles beside medicines
	Enter prescription	i) Doctor fills dosage (how much?) and frequency (how often?) for each medicine chosen ii) Doctor fills above info for medicine which is not chosen	i) Details entered are displayed on screen ii) same	i) Info entered will be inserted into meds when Doctor clicks on submit prescription ii) Info entered is discarded	Screen: Post appointment (3) To do: Enter info in textboxes
	Select tests	i) Doctor chooses one or more medicines from the list of medicines in the DB	i) Medicines chosen are marked in blue	i) Tests chosen will be added to "should_take" table when Doctor clicks on submit prescription	Screen: Post appointment (3) To do: Click on circles beside tests
	Submit Prescription	i) Doctor clicks on submit prescription	i) A success message is shown, Doctor taken back to some	i) A new entry is added to prescription table, and above inserts	Screen: Post appointment (3) To do: Click

			home screen	of screen (3) also happen	on submit prescription
Allot beds to admitted patients	Allot beds to admitted patients	<p>i) Doctor chooses patient, room type, and bed type for which a bed is free</p> <p>ii) Doctor chooses patient, room type, and bed type for which a bed is free</p>	<p>i) A confirmation box is shown - on “no” the fields are cleared, on “yes” doctor is taken to some home page</p> <p>ii) A pop-up tells the doctor that no bed with given requirements is free</p>	<p>i) An entry is added to the “occupies” table</p> <p>ii) Nothing happens</p>	<p>Screen: Allot beds to admitted patients</p> <p>To do: Select appropriate choices from a selection box</p>
Update inventory	Add new beds (for eg)	Doctor chooses appropriate type from first selection box, then clicks on add bed, then enters info	A confirmation box is displayed. If user inputs are not in accordance with DB datatypes, an error is displayed	i) Entry is added to the corresponding table if user inputs are in accordance with the datatype. If not, nothing happens	<p>Screen: Update Inventory</p> <p>To do: Select, click, enter info</p>
	Update charges (for eg) of bed (for eg)	A click, then new charges entered in a pop up	A confirmation pop-up displayed	i) DB entry is modified if types match	<p>Screen: Update Inventory</p> <p>To do: Select, click, enter info</p>
Register as a person	Register as a person	Details entered for many fields	There are some restriction checks made here. Same username can't be used twice. If email id or phone		

			number entered is already in DB an pop-up tells the registree this		
View generic information	View generic information (eg no. of beds, doctors and their speciality, etc)	Some clicking and filtering	Details are shown on the screen	None	View generic information
Clear Dues	Make Payment	Patient chooses one of the unpaid bills and proceeds	i)Payment settlement screen appears ii) After successful payment, redirects to unpaid bills screen	Paid method and payee information is updated for the selected bill	Screen: Clear dues TO DO: Select one of the unpaid bills
Disease and their Symptoms	Disease-Symptom Analysis	Patient selects the disease name	Disease-Symptom screen appears with symptom list for the selected disease	None	Screen: Disease-Symptom ToDo: Select the disease
Get an analysis of diseases in a particular area in last 1 month	Disease-Area	Patient enters the correct pincode of the area	i) Diseases are listed in desc order of count of people diagnosed in that area with the selected disease	None	Screen: Disease-vs-Area Todo: Select the pincode
			i) If no record is found for the entered pincode, a message is	None	Disease-vs-Area

			displayed conveying the same		
		Incorrect pincode selected	Asks user to enter correct pincode of 6 digits	None	Disease-vs-Area
		If patient does not select any pincode	i) Diseased people's total count in desc order are listed summing over all pincodes	None	Screen: Disease-vs-Area
Generate bill for diff purposes	Generate bill for medicines at the time of purchase	Staff enters the medicines	i) Select the medicines to be included in bill ii) Person name	Paid bill with the person's name is added to the database	i) Screens: New bill ii) Meds in new bills
	Generate bill for medical tests	Staff enters the test details	i) Select the test	i) A new bill is added to the database ii) Bill_no is updated in the patient-takes-test table	Screens: i) New bill ii) Medical tests
	Generate bill for the appointment	Staff enters the doctor name	i) Select the doctor	i) A new bill is added to db ii) Bill_no is updated in the appointment table	Screens: i) New Bill ii) Appointment