

Use Cases:

1. Admin:
 - a. Creation, Authentication, Validation of a hospital
 - b. Creation, Authentication, Validation of a doctor
 - c. Creation, Authentication, Validation of a pharmacy
 - d. Delete all types of user account
 - e. Login
2. Hospital:
 - a. Create account for doctor
 - b. Validate and authenticate the doctor
 - c. Delete doctor account
 - d. Update availability of beds
 - e. Approve patient admission
 - f. Login
3. Doctor:
 - a. Edit own account**
 - b. Set availability
 - c. Delete account**
 - d. Check patient list/ info/reports
 - e. View own schedule/ appointments
 - f. Set physical appointment
 - g. Login
4. Patient:
 - a. Create account
 - b. Upload/download medical documents
 - c. Browse doctors/ hospitals
 - d. Book an appointment, set time
 - e. Book hospital bed
 - f. Make payment
 - g. Edit account
 - h. Delete account
 - i. Login
5. Pharmacy
 - a. View pending orders
 - b. Update inventory
 - c. Deliver order
 - d. Login

User story:

User- Admin

Use Case 1- Create account for hospital/doctor/pharmacy

User story- As an admin I want to create an account on behalf of a hospital/doctor/pharmacy.

- **Scenario:**
 - The admin logs in to the system.
 - The admin wants to create a new account for hospital/doctor/pharmacy
 - The admin creates new account for the hospital/pharmacy/doctor
- **Exception:** The hospital/doctor/pharmacy already exists.
- **Precondition:** The admin must be logged in.
- **Postcondition:** A new account for hospital/doctor/pharmacy is created with the specified name.

Use Case 2- Authenticate hospital/doctor/pharmacy account

User story- As an admin I want to authenticate the account of hospital/doctor/pharmacy

- **Scenario:**
 - The admin logs in to the system.
 - The admin wants to authenticate a hospital/doctor/pharmacy
 - The admin confirms authentication
- **Exception:** The hospital/doctor/pharmacy account does not exist.
- **Precondition:** The admin must be logged in.
- **Postcondition:** The hospital/doctor/pharmacy account is authenticated.

Use Case 3- Validate a hospital/doctor/pharmacy account

User story- As an admin, I want to validate the hospital/doctor/pharmacy account

- **Scenario:**
 - The admin logs in to the system.
 - The admin wants to validate a hospital/doctor/pharmacy.
 - The admin confirms validation.
- **Exception:** The hospital/doctor/pharmacy does not exist.
- **Precondition:** The admin must be logged in.
- **Postcondition:** The hospital/doctor/pharmacy is validated.

Use Case 4 - Delete Accounts of the users

User story: As an admin, I want to be able to delete all types of user accounts, so that I can clean up the system and prevent unauthorized access.

- **Scenario:**
 - The admin logs in to the system.
 - The admin selects the "Delete all user accounts" option.
 - The admin confirms the deletion.
 - All user accounts are deleted.
- **Exception:** The admin does not have the necessary permissions to delete user accounts.
- **Precondition:** The admin must be logged in.
- **Postcondition:** All user accounts are deleted.

User- Hospital

Use Case 1 - Create account for doctor

User Story: As a hospital staff, I want to create an account for doctors working in the hospital.

- **Scenario:**
 - Hospital staff logs in to the system.
 - The admin creates new account for the hospital/pharmacy/doctor
- Exception: The doctor already exists.
- Precondition: The hospital staff must be logged in.
- Postcondition: A new account for the doctor is created with the specified name.

Use Case 2 - Validate and authenticate the doctor

User story: As a hospital staff, I want to validate the doctor account.

- **Scenario:**
 - The hospital staff logs in to the system.
 - The hospital staff wants to validate a doctor.
 - The hospital staff confirms validation.
- **Exception:** The doctor does not exist.
- **Precondition:** The hospital staff must be logged in.
- **Postcondition:** The doctor is validated.

Use Case 3 - Delete doctor account

User story: As a hospital staff, I want to delete one or multiple doctor accounts.

- **Scenario:**
 - The hospital staff logs in to the system.
 - The hospital staff selects the accounts that he/she wants to delete and selects “Delete Account”.
 - The hospital staff confirms deletion.
 - The selected accounts are deleted.
- **Exception:** The hospital does not have the necessary permissions to delete doctor accounts.
- **Precondition:** The hospital staff must be logged in.
- **Postcondition:** The selected doctor accounts are deleted.

Use Case 4 - Update availability of beds

User story: As a hospital staff, I want to update availability of beds.

- **Scenario:**
 - The hospital staff logs in to the system.
 - The hospital staff updates the number of beds available.
 - The hospital staff confirms the update.
 - The number of beds available is updated.
- **Precondition:** The hospital staff must be logged in.

- **Postcondition:** The number of beds available is updated.

Use Case 5 - Approve patient admission

User story: As a hospital staff, I want to approve patient admission.

- **Scenario:**
 - The hospital staff logs in to the system.
 - The hospital staff accepts pending patient admission and assigns a bed.
 - The patient is admitted in the hospital with an assigned bed.
- **Exception:** There are no available beds.
- **Precondition:** The hospital staff must be logged in.
- **Postcondition:** The patient is admitted in the hospital with an assigned bed.

User- Doctor

**Use Case 1 - Edit own account

User story: As a doctor, I want to edit my account.

- **Scenario:**
 - The doctor logs in to the system.
 - The hospital staff accepts pending patient admission and assigns a bed.
 - The patient is admitted in the hospital with an assigned bed.
- **Exception:** There are no available beds.
- **Precondition:** The hospital staff must be logged in.
- **Postcondition:** The patient is admitted in the hospital with an assigned bed.

Use Case 2 - Set availability

User story: As a doctor, I want to change my available timing.

- **Scenario:**
 - The doctor logs in to the system.
 - The doctor updates available timing.
 - The doctor confirms the changes.
- **Precondition:** The doctor must be logged in.
- **Postcondition:** The available timing of the doctor is updated.

Use Case 3 - Check patient list/ info/reports

User story: As a doctor, I want to view the information and health records of my patients.

- **Scenario:**
 - The doctor logs in to the system.
 - The doctor selects a patient from the list of patients.
 - All the information and records of the patient appear on the screen.
- **Exception:** There are no patients.
- **Precondition:** The doctor must be logged in.
- **Postcondition:** The information and health records of the patient is visible to the doctor.

Use Case 4 - View own schedule/ appointments

User story: As a doctor, I want to view my schedule and appointments.

- **Scenario:**
 - The doctor logs in to the system.
 - The doctor selects the “View Schedule” option.
 - The schedule appears on the screen.
 - The doctor can select any empty slot and add appointments.
 - The doctor can select on any appointment and view detailed information of the patient and also change appointment time and date.
- **Precondition:** The doctor must be logged in.
- **Postcondition:** The schedule is visible to the doctor.

Use Case 5 - Set physical appointment

User story: As a doctor, I want to set physical appointments for my patients.

- **Scenario:**
 - The doctor logs in to the system.
 - The doctor selects a patient from the patient list.
 - The doctor selects the “Set physical appointment” option and enters the desired date and time.
- **Precondition:** The doctor must be logged in.
- **Postcondition:** A physical appointment is created and a notification is sent to the user.

User- Patient

Use Case 1 - Create account

User story: As a patient, I want to create an account for myself.

- **Scenario:**
 - The patient selects the ‘Create Account’ option.
 - The patient enters all the details and confirms it.
- **Exception:** The patient already exists.
- **Postcondition:** A new account is created for the patient.

Use Case 2 - Upload medical documents

User story: As a patient, I want to upload my medical files.

- **Scenario:**
 - The patient logs in to the system.
 - The patient selects the “Upload files” option.
 - The patient selects the file he/she wants to upload and confirms it.
- **Exception:** The patient already exists.
- **Precondition:** The patient must be logged in.
- **Postcondition:** The files have been uploaded on the system.

Use Case 3 - Download medical documents

User story: As a patient, I want to download my medical files from the application to my device.

- **Scenario:**
 - The patient logs in to the system.
 - The patient selects the “Browse Files” option.
 - The patient selects the file he/she wants to download and selects the “Download” option.
- **Precondition:** The patient must be logged in.
- **Postcondition:** The file has been downloaded on the patient’s device.

Use Case 4 - Browse hospitals

User story: As a patient, I want to browse hospitals.

- **Scenario:**
 - The patient logs in to the system.
 - The patient selects the “View Hospitals” option.
- **Precondition:** The patient must be logged in.
- **Postcondition:** The patient can view the detailed list of hospitals.

Use Case 5 - Browse doctors

User story: As a patient, I want to browse doctors.

- **Scenario:**
 - The patient logs in to the system.
 - The patient selects the “View Doctors” option.
- **Precondition:** The patient must be logged in.
- **Postcondition:** The patient can view the detailed list of doctors.

Use Case 6 - Book an appointment

User story: As a patient, I want to book an appointment.

- **Scenario:**
 - The patient logs in to the system.
 - The patient selects the “View Doctors” option.
 - The patient views a doctor’s profile by selecting the “View Profile” option.
 - The patient then selects the “Book Appointment” option and selects any available time slot and enters all the details.
 - The patient and doctor receive confirmation.
- **Precondition:** The patient must be logged in.
- **Postcondition:** An appointment is booked.

Use Case 6 - Book hospital bed

User story: As a patient, I want to book a hospital bed.

- **Scenario:**
 - The patient logs in to the system.
 - The patient selects the “View Hospitals” option.

- The patient selects the “Book a bed” option.
- A request is sent to the hospital for approval.
- **Exception:** There are no available beds.
- **Precondition:** The patient must be logged in.
- **Postcondition:** A bed number is assigned to the patient after the hospital approves the patient.

Use Case 7 - Make Payment

User story: As a patient, I want to pay for my hospital bill/appointment fees/pharmacy bill.

- **Scenario:**
 - The patient logs in to the system.
 - The patient selects the “Make Payment” option.
 - A list of all pending bills appears and the patient selects the bill he/she wants to pay.
- **Precondition:** The patient must be logged in.
- **Postcondition:** Payment is complete.

Use Case 8 - Edit account

User story: As a patient, I want to edit my account.

- **Scenario:**
 - The patient logs in to the system.
 - The patient selects the “View Profile” option and then “Edit Profile”.
 - The patient can make necessary changes eg. change picture, change contact number or address.
 - The patient then saves the changes.
- **Precondition:** The patient must be logged in.
- **Postcondition:** The new changes are applied.

Use Case 9 - Delete Account

User story: As a patient, I want to delete my account.

- **Scenario:**
 - The patient logs in to the system.
 - The patient selects the “View Profile” option and then “Delete Account” option.
 - The patient then confirms it.
- **Precondition:** The patient must be logged in.
- **Postcondition:** The patient account is deleted.

User- Pharmacy

Use case 1- Login

User story- As a pharmacy, I want to be able to login to the system so that I can access my account and perform tasks such as viewing pending orders and updating inventory.

- **Scenario:**
 - The pharmacy staff opens the login page.
 - The pharmacy staff enters their username and password.
 - The pharmacy staff clicks the "Login" button.
 - The pharmacy staff is logged in to the system.
- **Exception:**
 - The username or password is incorrect.
 - The pharmacy staff is not a registered user.
- **Precondition:**
 - The pharmacy staff must be on the login page.
 - The pharmacy staff must have a username and password.
- **Postcondition:**
 - The pharmacy staff is logged in to the system.

Use case 2 - Update inventory

User story: As a pharmacy, I want to be able to update inventory so that I can keep track of the medications in stock and ensure that I have enough to meet the needs of my patients.

- **Scenario:**
 - The pharmacy staff logs in to the inventory management system.
 - The pharmacy staff selects the "Update inventory" option.
 - The pharmacy staff searches for the medication that needs to be updated.
 - The pharmacy staff enters the new quantity of the medication.
 - The pharmacy staff clicks the "Update" button.
 - The inventory is updated.
- **Exception:**
 - The medication does not exist in the system.
 - The pharmacy staff does not have the necessary permissions to update the inventory.
- **Precondition:**
 - The pharmacy staff must be logged in to the inventory management system.
- **Postcondition:**
 - The inventory is updated with the new quantity of the medication.

Use case 3 -View pending orders

User story: As a pharmacy, I want to be able to view pending orders so that I can process them and deliver the medications to the patients.

- **Scenario:**
 - The pharmacy logs in to the system.
 - The pharmacy selects the "View pending orders" option.
 - The pharmacy sees a list of all pending orders.
 - The pharmacy can select an order to view more details.
 - The pharmacy can mark an order as "processed" or "canceled".
- **Exception:-** The pharmacy does not have any pending orders.
- **Precondition:-** The pharmacy must be logged in.
- **Postcondition-** The pharmacy has a list of all pending orders.

Use case 4 - Deliver order

User story: As a pharmacy, I want to be able to deliver orders so that I can provide the medications to the patients in a timely manner.

- **Scenario:**

- The pharmacy staff logs in to the system.
- The pharmacy staff selects the "Deliver order" option.
- The pharmacy staff sees a list of all pending orders that are ready to be delivered.
- The pharmacy staff selects an order to deliver.
- The pharmacy staff enters the delivery address.
- The pharmacy staff clicks the "Deliver" button.
- The order is marked as "delivered".

- **Exception:**

- The pharmacy does not have any pending orders that are ready to be delivered.
- The delivery address is invalid.
- The pharmacy staff does not have the necessary permissions to deliver orders.

- **Precondition:**

- The pharmacy staff must be logged in to the system.
- The order must be ready to be delivered.

- **Postcondition:**

- The order is marked as "delivered".