

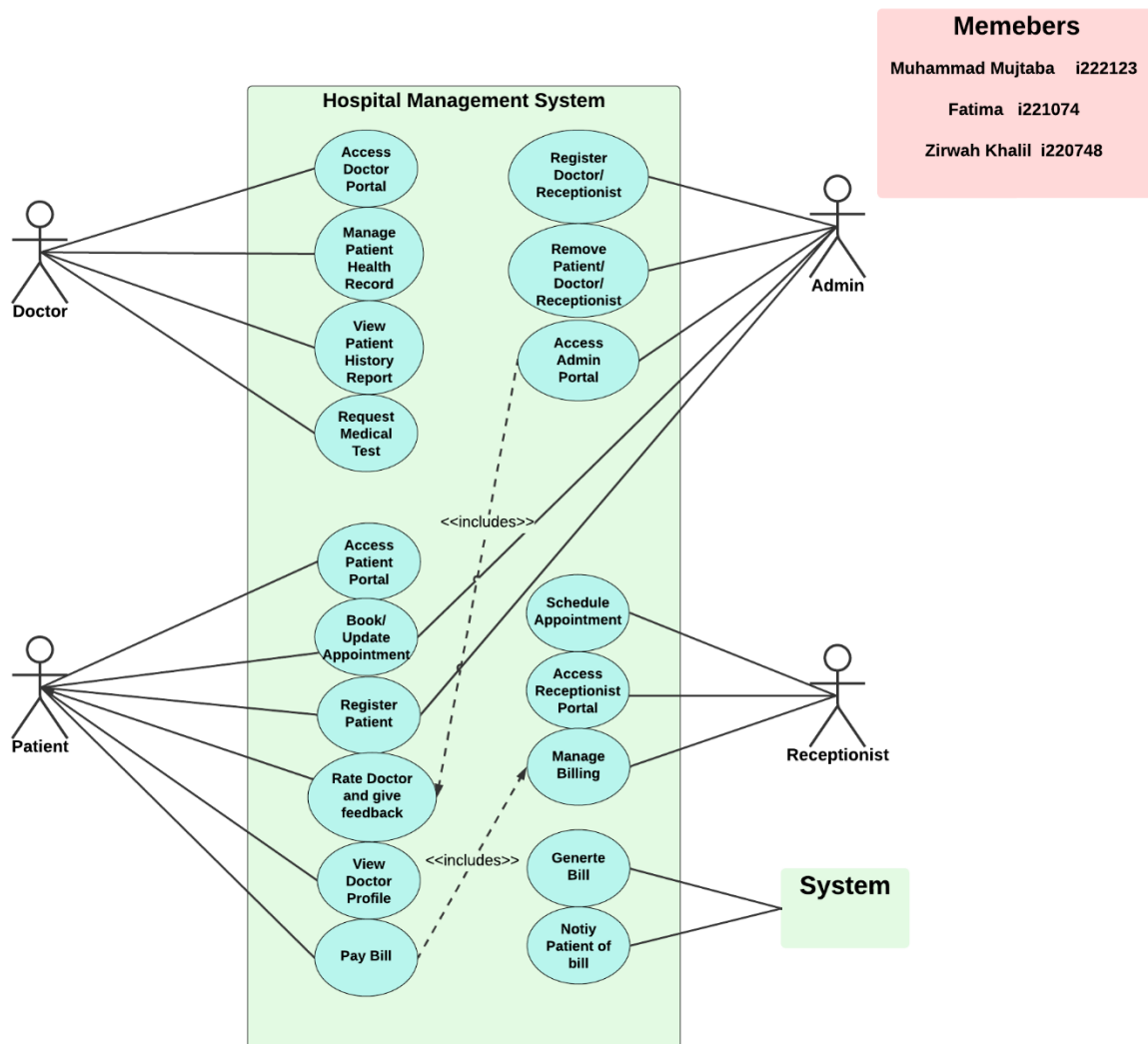
## Deliverable # 03

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### Section: BSCS-K

## Use Case Diagram



## Extended Use Cases

## 1. Register Patient

i221074

<b>Use Case Name</b>	Register Patient
<b>Scope</b>	Hospital Management System
<b>Level</b>	User Goal
<b>Primary Actor</b>	Patient, Admin
<b>Stakeholders and Interests</b>	<ul style="list-style-type: none"><li>• Patient: Wants to register in the system to access hospital services like appointments and billing.</li><li>• Administrator: Needs accurate patient data for records, billing, and care.</li></ul>
<b>Preconditions</b>	<ul style="list-style-type: none"><li>• The system is online and accessible.</li><li>• The patient has personal and contact details available for registration.</li></ul>
<b>Postconditions</b>	<ul style="list-style-type: none"><li>• The patient is registered in the system.</li><li>• The patient can log into their portal and access available services.</li></ul>
<b>Main Success Scenario</b>	
<b>Actor Action</b>	<b>System Response</b>
<ol style="list-style-type: none"><li>1. The patient navigates to the hospital registration page.</li><li>3. The patient submits the form.</li></ol>	<ol style="list-style-type: none"><li>2. The system prompts the patient to enter personal information (e.g., name, age, contact details, etc.).</li></ol>

	<p><b>4.</b> The system validates the entered data and creates a unique patient ID.</p> <p><b>5.</b> Notify the patient of successful registration and provide login credentials.</p>
<b>Extension</b>	<p><b>3a.</b> If the data entered is invalid (e.g., missing mandatory fields), the system prompts the patient to correct the errors before submitting again.</p> <p><b>5a.</b> If the patient is already registered, the system informs them and offers login options.</p>

## 2. Book/Update Appointment

i220748

<b>Use Case Name</b>	Book/Update Appointment
<b>Scope</b>	Hospital Management System
<b>Level</b>	User Goal
<b>Primary Actor</b>	Patient
<b>Stakeholders and Interests</b>	<ul style="list-style-type: none"> <li>• Patient: Wants to book, reschedule or cancel an appointment with a doctor.</li> <li>• Receptionist: May need to reschedule or cancel appointments due to changes in availability of doctors.</li> </ul>
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• The patient and receptionist are registered and logged in.</li> <li>• The receptionist checks for availability in the doctor's schedule.</li> </ul>

	<ul style="list-style-type: none"> <li>An appointment is present in the system for cancellation or rescheduling.</li> </ul>
<b>Postconditions</b>	<ul style="list-style-type: none"> <li>The appointment is successfully scheduled, rescheduled or canceled, and reflected in the system.</li> <li>Both patient and doctor are notified of the changes.</li> </ul>
<b>Main Success Scenario</b>	
<b>Actor Action</b>	<b>System Response</b>
<p>1. The patient logs into the system.</p> <p>2. The patient selects the “Book/Update Appointment” option.</p> <p>4. Selects either:</p> <ul style="list-style-type: none"> <li>A doctor and time slot to book.</li> <li>An existing appointment to reschedule or cancel.</li> </ul> <p>5. The patient/receptionist chooses to either reschedule or cancel the appointment.</p> <p>6(i). If rescheduled: The patient/receptionist selects a new date and time.</p>	<p>3. The system displays the patient's booked appointments and available doctors with time slots.</p> <p>6(ii). If cancel: The system confirms cancellation and removes the appointment.</p> <p>7. The system checks availability and updates the appointment accordingly.</p> <p>8. The system sends a confirmation to all parties involved and updates the doctor’s schedule.</p>

<b>Extension</b>	<p><b>4a.</b> If no time slots are available, the system offers alternative dates or doctors.</p> <p><b>5a.</b> If the patient cancels the process, the system returns them to the homepage.</p> <p><b>5b.</b> If a receptionist reschedules, the patient is notified and prompted to confirm or reschedule.</p> <p><b>7a.</b> System fails to cancel or reschedule the appointment, prompts retry.</p>
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### 3. Manage Patient Health Records

**i221074**

<b>Use Case Name</b>	Manage Patient Health Records
<b>Scope</b>	Hospital Management System
<b>Level</b>	User Goal
<b>Primary Actor</b>	Doctor
<b>Stakeholders and Interests</b>	<ul style="list-style-type: none"> <li>• Doctor: Needs to access and update patient health records to provide accurate treatment.</li> <li>• Patient: Wants to view and track their health records.</li> <li>• Administrator: Ensures that patient records are maintained securely.</li> </ul>
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• The patient is registered in the system.</li> <li>• The doctor is authenticated and authorized to access the patient's health record.</li> </ul>

<b>Postconditions</b>	<ul style="list-style-type: none"> <li>The patient's health record is updated and accessible for future reference.</li> </ul>
<b>Main Success Scenario</b>	
<b>Actor Action</b>	<b>System Response</b>
<p>1. The doctor logs into the system.</p> <p>3. The doctor navigates to the "Patient Health Records" section.</p> <p>5. The doctor updates the patient's health records with new data (e.g., diagnosis, prescriptions).</p>	<p>2. The system authenticates the doctor and grants access to the dashboard.</p> <p>4. The system displays the health records of assigned patients.</p> <p>6. The system saves the updated records and makes them available for patient and doctor viewing.</p>
<b>Extension</b>	<p>4a. If the doctor does not have authorization to access the patient's records, the system displays an error message and denies access.</p> <p>5a. If there is a network error, the system displays a message and allows the doctor to retry after the connection is restored.</p>

#### 4. Access Patient Portal

i220748

<b>Use Case Name</b>	Access Patient Portal
<b>Scope</b>	Hospital Management System

<b>Level</b>	User Goal
<b>Primary Actor</b>	Patient
<b>Stakeholders and Interests</b>	<ul style="list-style-type: none"> <li>• Patient: Wants to view their medical history, appointments, and bills.</li> <li>• Administrator: Ensures data accuracy and security in the portal.</li> </ul>
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• The patient is registered and has valid login credentials.</li> </ul>
<b>Postconditions</b>	<ul style="list-style-type: none"> <li>• The patient successfully logs into their portal and can access relevant data.</li> </ul>
<b>Main Success Scenario</b>	
<b>Actor Action</b>	<b>System Response</b>
<p><b>1.</b> The patient navigates to the login page.</p> <p><b>3.</b> The patient provides valid credentials.</p> <p><b>5.</b> The patient can now view appointments, medical history, and billing details.</p>	<p><b>2.</b> The system prompts the patient for a username and password.</p> <p><b>4.</b> The system authenticates the patient and displays their dashboard.</p>
<b>Extension</b>	<p><b>3a.</b> If the credentials are invalid, the system denies access and prompts the patient to retry.</p> <p><b>5a.</b> If the patient forgets their password, the system provides an option to reset it.</p>

## 5. Access Doctor Portal

i221074

<b>Use Case Name</b>	Access Doctor Portal
<b>Scope</b>	Hospital Management System
<b>Level</b>	User Goal
<b>Primary Actor</b>	Doctor
<b>Stakeholders and Interests</b>	<ul style="list-style-type: none"><li>• Doctor: Needs access to their schedule, patient records, and treatment plans.</li><li>• Patient: Wants their health records to be securely managed and available to the doctor.</li><li>• Administrator: Manages doctor profiles and access control.</li></ul>
<b>Preconditions</b>	<ul style="list-style-type: none"><li>• The doctor is registered and has valid login credentials.</li><li>• The system is online and accessible.</li></ul>
<b>Postconditions</b>	<ul style="list-style-type: none"><li>• The doctor is successfully logged into their portal with access to patient records and schedules.</li></ul>
<b>Main Success Scenario</b>	
<b>Actor Action</b>	<b>System Response</b>
1. The doctor navigates to the login page.	



<p><b>3.</b> The doctor enters valid credentials</p> <p><b>5.</b> The doctor can now view their appointments, patient records, and update treatment plans.</p>	<p><b>2.</b> The system prompts for username and password.</p> <p><b>4.</b> The system authenticates the doctor and opens their personalized portal.</p>
<b>Extension</b>	<p><b>3a.</b> If login credentials are invalid, the system denies access and prompts the doctor to retry.</p> <p><b>5a.</b> If the doctor's account is locked, the system provides instructions for unlocking it.</p>

## 6. View Doctor Profiles

i220748

<b>Use Case Name</b>	View Doctor Profiles
<b>Scope</b>	Hospital Management System
<b>Level</b>	User Goal
<b>Primary Actor</b>	Patient
<b>Stakeholders and Interests</b>	<ul style="list-style-type: none"> <li>• Patient: Wants to choose the most suitable doctor based on experience, specialization, and availability.</li> <li>• Doctor: Wants their profile to reflect accurate and up-to-date information for patients.</li> <li>• Administrator: Manages doctor profiles and ensures information is accurate.</li> </ul>

<b>Preconditions</b>	<ul style="list-style-type: none"> <li>Doctors' profiles are stored in the system and available for viewing.</li> </ul>
<b>Postconditions</b>	<ul style="list-style-type: none"> <li>The patient is able to view and choose a doctor for appointments.</li> </ul>
<b>Main Success Scenario</b>	
<b>Actor Action</b>	<b>System Response</b>
<p>1. The patient logs into the system.</p> <p>2. The patient navigates to the "Doctor Profiles" section.</p> <p>4. The patient views individual doctor profiles and selects one for an appointment.</p>	<p>3. The system displays a list of doctors with profiles including their expertise, availability, and contact information.</p>
<b>Extension</b>	<p><b>4a.</b> If a doctor's profile is unavailable (due to system error), the patient is notified and can select another doctor.</p>

## 7. Manage Billing

i222123

<b>Use Case Name</b>	Manage Billing
<b>Scope</b>	Hospital Management System
<b>Level</b>	User Goal
<b>Primary Actor</b>	Receptionist

<b>Stakeholders and Interests</b>	<ul style="list-style-type: none"> <li>• Patient: Wants accurate bills and the ability to track payments.</li> <li>• Receptionist: Needs to ensure timely and correct billing for services.</li> </ul>
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• Patient's service details (appointments, treatments) are available in the system.</li> <li>• Receptionist is logged in and has the necessary access rights.</li> </ul>
<b>Postconditions</b>	<ul style="list-style-type: none"> <li>• The patient's bill is generated and updated in the system.</li> </ul>
<b>Main Success Scenario</b>	
<b>Actor Action</b>	<b>System Response</b>
<p>1. The Receptionist logs into the system.</p> <p>2. In the manage billing option, the Receptionist selects the patient's record and reviews the provided services.</p> <p>4. The receptionist reviews and confirms the bill.</p>	<p>3. The system generates the bill based on the services.</p> <p>5. The system sends the bill to the patient's portal for review and payment.</p>
<b>Extension</b>	<p>3a. If there's a dispute about the bill, the system flags the case for review.</p>

## 8. View Patient's Medical History Report

i222123

<b>Use Case Name</b>	Generate Patient Medical History Report
<b>Scope</b>	Hospital Management System
<b>Level</b>	User Goal
<b>Primary Actor</b>	Doctor
<b>Stakeholders and Interests</b>	<ul style="list-style-type: none"><li>• Doctor: Needs to review a patient's medical history to provide better treatment and diagnosis.</li><li>• Patient: Wants accurate records of past treatments and diagnosis.</li><li>• Administrator: Ensures that the system maintains comprehensive medical records for legal and operational purposes.</li></ul>
<b>Preconditions</b>	<ul style="list-style-type: none"><li>• The patient's medical history is stored in the system.</li><li>• The doctor is logged into the system and authorized to view the patient's records.</li></ul>
<b>Postconditions</b>	<ul style="list-style-type: none"><li>• The patient's medical history report is generated and available for review by the doctor.</li></ul>
<b>Main Success Scenario</b>	
<b>Actor Action</b>	<b>System Response</b>
1. The doctor logs into the system.	

<p><b>2.</b> The doctor selects a patient from the list or searches for the patient by ID.</p> <p><b>4.</b> The doctor reviews the medical history record for the selected patient.</p>	<p><b>3.</b> The system retrieves the patient's medical history (past appointments, diagnoses, treatments, test results).</p> <p><b>5.</b> The system allows the doctor to download or print the report for further reference.</p>
<b>Extension</b>	<p><b>4a.</b> If any part of the patient's medical history is incomplete or missing, the system alerts the doctor and flags the record for administrative follow-up.</p> <p><b>5a.</b> If the report cannot be generated due to a system error, the doctor is notified and the system logs the issue for IT support.</p>

## 9. Request Medical Test Report

i221074

<b>Use Case Name</b>	Request Medical Test Report
<b>Scope</b>	Hospital Management System
<b>Level</b>	User Goal
<b>Primary Actor</b>	Doctor
<b>Stakeholders and Interests</b>	<ul style="list-style-type: none"> <li>• Doctor: Needs to request and review medical tests to diagnose patients effectively.</li> <li>• Patient: Wants accurate tests for proper diagnosis and treatment.</li> </ul>

	<ul style="list-style-type: none"> <li>Laboratory Staff: Wants to receive clear test orders for processing.</li> </ul>
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>The patient is registered in the system and has an open case.</li> <li>The doctor is logged into the system.</li> </ul>
<b>Postconditions</b>	<ul style="list-style-type: none"> <li>The test request is submitted and assigned to the lab for processing.</li> <li>The doctor and patient are notified that the test has been requested.</li> </ul>
<b>Main Success Scenario</b>	
<b>Actor Action</b>	<b>System Response</b>
<p>1. The doctor logs into the system.</p> <p>3. The doctor selects the patient's record.</p> <p>5. Doctor selects the required tests (e.g., blood work, imaging).</p> <p>7. Doctor submits the test request.</p>	<p>2. System verifies the doctor's credentials and grants access.</p> <p>4. System displays the patient's medical history and available test options.</p> <p>6. System displays the "Request Medical Test" option.</p> <p>8. System sends the test request to the lab and notifies the patient.</p> <p>9. System confirms that the request has been sent to the lab for processing.</p>

<b>Extension</b>	<p><b>5a.</b> If the test is unavailable, the system prompts the doctor to choose an alternative test or escalate the issue to the lab.</p> <p><b>7a.</b> If there are test costs involved, the system notifies the patient about the cost and waits for approval before proceeding.</p>
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## 10. Register Doctor / Receptionist

i222123

<b>Use Case Name</b>	Register Doctor/ Receptionist
<b>Scope</b>	Hospital Management System
<b>Level</b>	User goal
<b>Primary Actor</b>	Administrator
<b>Stakeholders and Interests</b>	<ul style="list-style-type: none"> <li>• Doctor: Wants to access the system for schedule updates, getting a patient's health history record and updating a patient's health report.</li> <li>• Patient: Wants access to the system for booking appointments, viewing health records, and paying bills.</li> <li>• Receptionist: Wants to access the system for scheduling appointments and generating bills.</li> <li>• Admin: As soon as a new doctor is finalized, the admin makes his account and gives credentials to the doctor.</li> </ul>

<b>Preconditions</b>	The Doctor / Receptionist credentials (e.g., employment verification, personal identification) are valid and verified by the hospital admin.
<b>Postconditions</b>	<ul style="list-style-type: none"> <li>• The Doctor / Receptionist can login to his/her account.</li> <li>• Doctor is registered and visible to patients.</li> <li>• Receptionist is registered and can manage appointments and billing.</li> </ul>
<b>Main Success Scenario</b>	
<b>Actor Action</b>	<b>System Response</b>
<b>1.</b> Admin enters the details of the doctor/receptionist.  <b>2.</b> Admin registers the doctor/patient/receptionist.	<b>3.</b> System automatically assigns an ID to the doctor/receptionist.  <b>4.</b> System will send confirmation messages with their login credentials to the doctor/receptionist/patient through their provided contact details (e.g. email, SMS).
<b>Extension</b>	<b>1a.</b> Doctor/receptionist details are Invalid or wrong.  <b>4a.</b> Contact Information for doctor/patient/receptionist is invalid.

## 11. Schedule Appointment

i222123

<b>Use Case Name</b>	Schedule Appointment
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<b>Scope</b>	Hospital Management System
<b>Level</b>	User goal
<b>Primary Actor</b>	Receptionist
<b>Stakeholders and Interests</b>	<ul style="list-style-type: none"> <li>• Patient: Needs easy access to available clash-free appointment slots.</li> <li>• Doctor: Need their schedules to be clash free.</li> <li>• Receptionist: Ensures appointment slots are available, clash-free, and properly scheduled. Monitors to prevent overbooking.</li> </ul>
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• Receptionist has access to Schedule Appointments.</li> <li>• The system is functioning properly and connected to the patient booking interface.</li> <li>• Doctors and time slots are available to be scheduled.</li> </ul>
<b>Postconditions</b>	<ul style="list-style-type: none"> <li>• Appointment timing is set so Patients can select their appointment slot.</li> <li>• Notifications of the updated schedule may be sent to relevant parties.</li> </ul>
<b>Main Success Scenario</b>	
<b>Actor Action</b>	<b>System Response</b>
1. Logs into the system with appropriate access.	2. System verifies the Receptionist's credentials and confirms access to schedule appointments.

<p><b>3.</b> Navigates to the "Schedule Appointments" section.</p> <p><b>5.</b> Selects a doctor and specifies available time slots for appointments.</p> <p><b>7.</b> Save the changes.</p> <p><b>9.</b> Notifies patients about the availability of appointment slots.</p>	<p><b>4.</b> Displays available doctors and the current schedule settings.</p> <p><b>6.</b> Updates the selected doctor's schedule with the newly specified appointment slots.</p> <p><b>8.</b> Confirms the time slots and saves them in the system.</p> <p><b>10.</b> Sends notifications or updates the system for patients to view the available appointment slots.</p>
<p><b>Extension</b></p>	<p><b>2a.</b> Receptionist's credentials are incorrect, and access is denied.</p> <p><b>5a.</b> Receptionist attempts to schedule overlapping slots, and the system alerts the conflict.</p> <p><b>6a.</b> A system error occurs, and the Receptionist is prompted to retry or contact support.</p> <p><b>10a.</b> Receptionist Modifies the schedule, and the system prompts rescheduling for affected patients.</p>

<b>Use Case Name</b>	Pay Bill
<b>Scope</b>	Hospital Management System
<b>Level</b>	User goal
<b>Primary Actor</b>	Patient
<b>Stakeholders and Interests</b>	<ul style="list-style-type: none"> <li>• Patient: Wants to access the system for paying due bills.</li> <li>• Receptionist: Wants to access the system for keeping the check if a certain patient has paid the bill.</li> </ul>
<b>Preconditions</b>	Patient has attended the appointment.
<b>Postconditions</b>	<ul style="list-style-type: none"> <li>• Patient's bill record is cleared.</li> <li>• Patient is removed from the list of patients with due bills.</li> </ul>
<b>Main Success Scenario</b>	
<b>Actor Action</b>	<b>System Response</b>
<p>1. Patient logs into the system.</p> <p>3. Patient navigates to the "Pay Bill" section.</p> <p>5. Patient selects the bill to pay.</p>	<p>2. System verifies patient credentials.</p> <p>4. System displays the patient's outstanding bills.</p> <p>6. System shows details of the selected bill.</p>

<p><b>7.</b> Patient enters payment information (e.g., credit card).</p> <p><b>9.</b> Patient confirms the payment.</p> <p><b>11.</b> Patient receives a payment confirmation receipt.</p>	<p><b>8.</b> System processes the payment.</p> <p><b>10.</b> System confirms payment success and updates the billing status.</p> <p><b>12.</b> System sends a notification of payment to the receptionist and updates records.</p>
<b>Extension</b>	<p><b>2a.</b> If the patient enters incorrect credentials, the system denies access and prompts for re-entry.</p> <p><b>4a.</b> If there are no outstanding bills, the system displays a message indicating no dues.</p> <p><b>8a.</b> If a payment processing error occurs, the system shows an error message and prompts to retry.</p> <p><b>9a.</b> If the patient cancels, the system returns to the previous screen without processing payment.</p> <p><b>10a.</b> If the payment is declined, the system alerts the patient to use a different method.</p>

### 13. Remove User (Patient/Doctor/Receptionist)

i221074

<b>Use Case Name</b>	Remove user (Patient / Doctor / Receptionist)
<b>Scope</b>	Hospital Management System
<b>Level</b>	User goal

<b>Primary Actor</b>	Administrator
<b>Stakeholders and Interests</b>	<ul style="list-style-type: none"> <li>• User: Wants to remove their information from the system.</li> <li>• Admin: Removes a user as he/she is no longer associated with the system (e.g a Patient dies, a doctor has resigned).</li> </ul>
<b>Preconditions</b>	The user is registered in the system.
<b>Postconditions</b>	The user can no longer access the system.
<b>Main Success Scenario</b>	
<b>Actor Action</b>	<b>System Response</b>
<p>1. Admin logs into the system.</p> <p>3. Admin navigates to the "Remove Users" section.</p> <p>5. Admin selects the user to be removed.</p> <p>7. Admin confirms the removal of the user.</p>	<p>2. System verifies admin credentials.</p> <p>4. System displays the list of registered users.</p> <p>6. System displays the user's details for confirmation.</p> <p>8. System removes the user and their information from the system.</p> <p>9. Send a Confirmation message to the admin.</p> <p>10. System confirms the user has been removed and updates access permissions.</p>

<b>Extension</b>	<p><b>2a.</b> If Admin enters incorrect credentials, then System denies access and prompts for re-entry.</p> <p><b>5a.</b> If Admin selects a user who is still active (e.g., patient under treatment), then System displays a warning and prevents deletion.</p> <p><b>8a.</b> If there is a system error during user removal, then System shows an error message and prompts Admin to retry.</p> <p><b>8b.</b> If the user has pending appointments or tasks, then System alerts Admin and requests resolution before removal.</p>
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#### 14. Access Receptionist Portal

i220748

<b>Use Case Name</b>	Access Receptionist Portal
<b>Scope</b>	Hospital Management System
<b>Level</b>	User Goal
<b>Primary Actor</b>	Receptionist
<b>Stakeholders and Interests</b>	<ul style="list-style-type: none"> <li>• Receptionist: Needs access to their schedule, patient records, and treatment plans.</li> <li>• Administrator: Manages doctor profiles and access control.</li> </ul>
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• The Receptionist is registered and has valid login credentials.</li> </ul>

<b>Postconditions</b>	<ul style="list-style-type: none"> <li>The Receptionist is successfully logged into their portal with access to patient bills and schedules.</li> </ul>
<b>Main Success Scenario</b>	
<b>Actor Action</b>	<b>System Response</b>
<p><b>1.</b> The Receptionist navigates to the login page.</p> <p><b>3.</b> The Receptionist enters valid credentials</p> <p><b>5.</b> The Receptionist can now schedule appointments and manage billing.</p>	<p><b>2.</b> The system prompts for username and password.</p> <p><b>4.</b> The system authenticates the Receptionist and opens their personalized portal.</p>
<b>Extension</b>	<p><b>3a.</b> If login credentials are invalid, the system denies access and prompts the Receptionist to retry.</p> <p><b>5a.</b> If the Receptionist's account is locked, the system provides instructions for unlocking it.</p>

## 15. Accessing Admin Portal

i222123

<b>Use Case Name</b>	Access Admin Portal
<b>Scope</b>	Hospital Management System
<b>Level</b>	User goal

<b>Primary Actor</b>	Administrator
<b>Stakeholders and Interests</b>	<ul style="list-style-type: none"> <li>• <b>Admin:</b> Wants secure access to manage hospital operations and sensitive data.</li> <li>• <b>Hospital Staff:</b> Depend on administrator for smooth system functioning.</li> <li>• <b>Patients and Doctors:</b> Indirectly benefit from a well-managed system.</li> </ul>
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• The administrator has valid login credentials.</li> <li>• The system is online and accessible.</li> </ul>
<b>Postconditions</b>	<ul style="list-style-type: none"> <li>• The administrator is granted access to the admin dashboard.</li> <li>• The system logs the administrator's access for auditing purposes.</li> </ul>
<b>Main Success Scenario</b>	
<b>Actor Action</b>	<b>System Response</b>
<p><b>1.</b> The administrator navigates to the login page.</p> <p><b>3.</b> The administrator enters username and password.</p> <p><b>5.</b> The administrator submits the login form</p>	<p><b>2.</b> The system displays the login interface.</p> <p><b>4.</b> The system processes the login details and verifies credentials.</p>



<p><b>8.</b> The administrator accesses admin functionalities (e.g., user management, reports).</p>	<p><b>6.</b> The system checks for errors in the login credentials (e.g., password match).</p> <p><b>7.</b> If the credentials are valid, the system grants access to the admin dashboard and logs the access attempt.</p> <p><b>9.</b> The system displays the admin dashboard and enables access to different management modules.</p>
<p><b>Extension</b></p>	<p><b>3a.</b> If the administrator enters invalid credentials:</p> <p>The system displays an error message.</p> <p>The administrator is prompted to retry or reset the password.</p> <p><b>4a.</b> If the system is undergoing maintenance:</p> <p>The administrator receives a notification indicating that the portal is temporarily unavailable.</p> <p>The system allows the administrator to sign up for maintenance notifications.</p>

## 16. Rate a Doctor and Provide Feedback

i222123

<b>Use Case Name</b>	Access Admin Portal
<b>Scope</b>	Hospital Management System
<b>Level</b>	User goal
<b>Primary Actor</b>	Patient

<b>Secondary Actor</b>	Admin
<b>Stakeholders and Interests</b>	<ul style="list-style-type: none"> <li>• <b>Patient:</b> Wants to give feedback about their experience with the doctor and rate the quality of care.</li> <li>• <b>Admin:</b> Needs to monitor doctor performance and handle any concerns or complaints.</li> </ul>
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• The patient has completed an appointment with the doctor.</li> <li>• The patient is logged into their portal.</li> <li>• The patient has access to rate and provide feedback after the appointment.</li> </ul>
<b>Postconditions</b>	<ul style="list-style-type: none"> <li>• The patient's rating and feedback are saved in the system.</li> <li>• Only the Admin can view the feedback description, while the rating is visible to the doctor.</li> </ul>
<b>Main Success Scenario</b>	
<b>Actor Action</b>	<b>System Response</b>
<p><b>1.</b> The Patient logs into the system and navigates to the "Rate a Doctor" section.</p> <p><b>3.</b> The Patient selects the doctor they want to rate.</p>	<p><b>2.</b> The system displays a list of doctors associated with the patient's history.</p>

<p><b>5.</b> The Patient submits a rating (1-5 stars) and provides detailed feedback in the description box.</p>	<p><b>4.</b> The system presents a rating scale and feedback form.</p> <p><b>6.</b> The system saves the rating and feedback. The rating is made visible to the doctor, while the feedback description is stored and marked for Admin viewing only.</p>
<p><b>Extension</b></p>	<p><b>5a.</b> The Patient does not provide feedback.</p> <p><b>5b.</b> The Patient cancels the process before submitting the rating.</p> <p><b>6a.</b> The system saves only the rating and marks the feedback section as empty.</p> <p><b>6b.</b> The system discards the data and returns to the patient's portal.</p>