



**Software Construction and Development**  
**Project Artifact(02)**

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## Fully Dressed / Expanded Use Cases

### 1. Create Profile

Use case no	01	
Use case name	Create Profile	
Actor	Patient	
Type	Primary	
Description	Patient creates a new account/profile in the system.	
Preconditions	Patient has accessed the registration page of the system.	
Postconditions	A new patient profile is successfully created and stored in the system.	
Normal flow / Main success flow	Actor Action	System Response
	<ol style="list-style-type: none"> <li>1. Patient selects Create Profile option.</li> <li>2. Patient enters required details(name,age, contact info, email, password).</li> </ol>	<ol style="list-style-type: none"> <li>3. System validates the entered data.</li> <li>4. System stores patient details in the database.</li> <li>5. Confirmation message /profile created notification is shown.</li> </ol>
Alternative flows/Extension	A1.1. If data is incomplete/invalid system shows error message and asks for correction.	

A1.2. If profile already exists, system prevents duplication and asks patient to log in.

## 2. Login Patient

Use case no	02	
Use case name	Login Patient	
Actor	Patient	
Type	Primary	
Description	Patient logs into the system using valid credentials..	
Preconditions	Patient has an existing profile.	
Postconditions	Patient is logged in and redirected to their dashboard.	
Normal flow / Main success flow	Actor Action	System Response
	1. Patient selects Login option.  2. Patient enters username/email and password.	3. System verifies credentials.  4. System grants access and redirects patient to dashboard.
Alternative flows/Extension	A1.1. If invalid credentials entered system shows error and prompts retry. A1.2. If account is locked system displays warning and recovery option.	

## 3. Schedule Appointment



Use case no	03	
Use case name	Schedule Appointment	
Actor	Patient	
Type	Primary	
Description	Patient schedules an appointment with an available doctor.	
Preconditions	Patient is logged in. Doctor availability exists in the system.	
Postconditions	Appointment is successfully scheduled and confirmation is sent.	
Normal flow / Main success flow	Actor Action	System Response
	<ol style="list-style-type: none"><li>1. Patient selects Schedule Appointment option.</li><li>2. Patient views list of doctors with available slots.</li><li>3. Patient selects doctor and time slot.</li></ol>	<ol style="list-style-type: none"><li>4. System checks slot availability.</li><li>5. System saves appointment details.</li><li>6. Confirmation and notification sent to patient.</li></ol>
Alternative flows/Extension	<p>A1.1. If slot is not available system prompts patient to choose another time.</p> <p>A1.2. If scheduling fails due to technical error system shows error and retry option.</p>	

#### 4. Cancel Appointment



Use case no	04	
Use case name	Cancel Appointment	
Actor	Patient	
Type	Secondary	
Description	Patient cancels a previously scheduled appointment..	
Preconditions	Patient is logged in and has an existing appointment.	
Postconditions	Appointment is canceled and system updates records. Notification is sent.	
Normal flow / Main success flow	Actor Action	System Response
	1. Patient selects Cancel Appointment option.  2. Patient views list of scheduled appointments.  3. Patient selects the appointment to cancel.	4. System deletes appointment from records.  5. System sends cancellation confirmation.
Alternative flows/Extension	A1.1. If patient tries to cancel past appointment, system prevents cancellation. A1.2. If technical issue occurs, system shows error and retry option.	

## 5. View Reports



Use case no	05	
Use case name	View Reports	
Actor	Patient	
Type	Primary	
Description	Patient views medical test reports stored in the system.	
Preconditions	Patient is logged in. Reports are already uploaded by lab/doctor.	
Postconditions	Patient successfully views/downloads their medical reports.	
Normal flow / Main success flow	Actor Action	System Response
	1. Patient selects View Reports option.  3. Patient selects a specific report.	2. System fetches available reports linked to patient profile.  4. Report is displayed/downloaded.
Alternative flows/Extension	A1.1. If no reports are available system shows No reports found. A1.2. If report file is corrupted system shows error message.	

## 6. Receive Notifications

Use case no	06
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Use case name	Receive Notifications	
Actor	Patient	
Type	Secondary	
Description	Patient receives notifications about appointments reports or payments.	
Preconditions	Patient has an active profile and notifications are enabled.	
Postconditions	Patient receives system-generated notifications (in-app email SMS).	
Normal flow / Main success flow	Actor Action	System Response
	3. Patient views notification.	<ol style="list-style-type: none"><li>1. System generates notification (appointment confirmation, cancellation report ready payment reminder etc.).</li><li>2. Notification is sent to the patient through selected channels.</li></ol>
Alternative flows/Extension	<p>A1.1. If internet is unavailable, notification is queued and delivered later.</p> <p>A1.2. If email/SMS delivery fails system logs failure and retries.</p>	