

**Detailed use case table for Profile Management**

Got it ✅ — here’s a **detailed use case table** for the **Patient Profile Management** module that you can directly plug into your PRD or system design documentation.  
It includes **Actors, Triggers, Preconditions, Main Flow, Alternate Flow, and Postconditions** for the primary use cases we discussed.

**Patient Profile Management – Detailed Use Case Table**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Use Case ID** | **Use Case Name** | **Actors** | **Trigger** | **Preconditions** | **Main Flow** | **Alternate Flows** | **Postconditions** |
| **UC-PPM-01** | Create New Patient Profile | Receptionist, Patient, System | New patient comes for registration or self-registers via portal/kiosk | User has valid access rights; Registration module is active; Required fields available | 1. Actor selects "Create New Profile". 2. Enters personal, contact, and medical details. 3. System validates inputs. 4. Assigns unique Patient ID. 5. Saves profile with timestamp. | **AF1:** Missing required fields → system prompts user to complete before saving. **AF2:** Validation error → user corrects and resubmits. | New active patient profile is created and available across modules. |
| **UC-PPM-02** | View Patient Profile | Doctor, Nurse, Receptionist, Patient | User requests to see patient information | User authenticated; Patient profile exists in DB | 1. User searches profile by ID/name/phone. 2. System displays profile tabs (Demographics, Medical, Insurance, History, Documents). 3. User navigates through sections. | **AF1:** Profile not found → system shows “No record found” with retry option. | Profile data is displayed as per user role permissions. |
| **UC-PPM-03** | Update Patient Profile | Doctor, Nurse, Receptionist, Patient (limited fields) | User opens profile and selects "Edit" | User authorized to edit; Profile exists | 1. User edits allowed fields. 2. System validates changes. 3. Changes saved with user ID and timestamp in audit log. | **AF1:** Unauthorized user tries to edit → system denies access and logs attempt. | Profile updated; audit log records who made changes and when. |
| **UC-PPM-04** | Attach Medical Documents | Doctor, Nurse, Lab Technician | New medical report/test result available | User authenticated; Profile exists | 1. User selects "Upload Document". 2. Chooses file and document type. 3. System validates file type & size. 4. Attaches and indexes file in profile. | **AF1:** File exceeds limit or wrong format → system prompts retry. | Document stored and linked to profile; visible to authorized users. |
| **UC-PPM-05** | Manage Alerts/Flags | Doctor, Nurse, Admin Staff | Critical condition, allergy, or care note identified | Profile exists; User authorized | 1. Actor selects "Add Alert". 2. Enters alert type, description, and expiration (if any). 3. Saves alert. | **AF1:** User tries to remove another department’s special alert without permission → system denies. | Alert visible at top of profile until resolved/expired. |
| **UC-PPM-06** | Search & Filter Profiles | Doctor, Receptionist, Admin Staff | Need to locate patient(s) | User authenticated | 1. Actor enters search criteria. 2. System runs semantic/attribute search. 3. Displays list matching filters. | **AF1:** No results found → suggest similar matches via semantic search. | Relevant patient profiles accessible for further action. |
| **UC-PPM-07** | Export/Print Profile Summary | Doctor, Receptionist | Need physical/digital summary for referral or patient request | Profile exists; User has export/print permission | 1. Actor clicks “Export” or “Print”. 2. System generates formatted summary (PDF/print). | **AF1:** Printer/Download error → system displays retry option. | Patient profile summary generated successfully. |
| **UC-PPM-08** | Audit Log Review | Admin, Compliance Officer | Compliance check or data breach investigation | System has audit logging enabled | 1. Actor opens audit log interface. 2. Filters by patient, date, or action. 3. Views/export logs. | **AF1:** User without permission tries to view → access denied. | Audit information retrieved for authorized purpose. |

**Notes for Implementation**

* **Security:** All flows enforce role-based access and legislative compliance (HIPAA/GDPR).
* **Validation:** Input checks for format, length, completeness.
* **Integration:** Changes in the profile reflect instantly in connected modules (appointments, billing, EHR).
* **UX:** Provide inline error messages and progress indicators during save/upload.

**UML Use Case Diagram** for these Profile Management scenarios so your dev team has both a **visual and tabular reference** for implementation.

Use Case Diagram for these Profile Management scenarios

design a UML Use Case Diagram for these Profile Management scenarios

Here is a UML Use Case Diagram description for the Patient Profile Management scenarios based on the detailed use case table provided:

Actors:

* Receptionist
* Patient
* Doctor
* Nurse
* Lab Technician
* Admin Staff
* Compliance Officer

Use Cases:

* Create New Patient Profile (Receptionist, Patient)
* View Patient Profile (Doctor, Nurse, Receptionist, Patient)
* Update Patient Profile (Doctor, Nurse, Receptionist, Patient [limited])
* Attach Medical Documents (Doctor, Nurse, Lab Technician)
* Manage Alerts/Flags (Doctor, Nurse, Admin Staff)
* Search & Filter Profiles (Doctor, Receptionist, Admin Staff)
* Export/Print Profile Summary (Doctor, Receptionist)
* Audit Log Review (Admin Staff, Compliance Officer)

System Boundary:

* Named "Patient Profile Management System" enclosing all use cases.

Relationships:

* Each actor is associated with their respective use cases via usage associations.
* Actors only connect to the use cases they are authorized for.

This UML diagram visually organizes how different users interact with the core functionalities of patient profile management, emphasizing their roles and permissions within the system.

**UML diagram file or a digital illustration using a diagram tool to complement this description for presentations or development documentation**

Here is the **visual UML Use Case Diagram** for the Patient Profile Management System as described. It depicts the key actors interacting with their respective use cases enclosed within the system boundary:

* **Actors:** Receptionist, Patient, Doctor, Nurse, Lab Technician, Admin Staff, Compliance Officer
* **Use Cases:** Create New Patient Profile, View Patient Profile, Update Patient Profile, Attach Medical Documents, Manage Alerts/Flags, Search & Filter Profiles, Export/Print Profile Summary, Audit Log Review

This diagram clearly shows which users perform which actions within the Patient Profile Management System, illustrating the functional scope and security roles relevant for presentations or development documentation.

A screenshot of a computer

AI-generated content may be incorrect.

UML Use Case Diagram for Patient Profile Management System