



Advanced Web Development

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NRC: 27819

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Medical Appointment Web System - Features

Feature 0: Core CRUD.

Req. ID	Grouped Requirement Description	Roles Involved	Type
RF-P.1, RF-P.2	Secure Registration and Authentication (Login) for Patients.	Patient	Functional (User CRUD)
RF-A.1	User Management (CRUD for Doctors and Administrators), including roles.	Administrator	Functional (User CRUD)
RF-A.2	Management (CRUD) of Physical Resources (Consultation Rooms, Equipment).	Administrator	Functional (Resource CRUD)

RNF-C.3	Web interface Portability and Compatibility .	All	Non-Functional (Technical)
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Feature 1: Appointment Scheduling and Management

Req. ID	Grouped Requirement Description	Roles Involved	Type
RF-P.3 , RF-P.4	Appointment Search by Doctor/Specialty/Date and Dynamic Available Slot Calculation .	Patient	Functional (Query/Calculation)
RF-P.5	Booking a New Appointment by the Patient.	Patient	Functional (Create Appointment)
RF-P.6	Modification or Cancellation of an Existing Appointment by the Patient.	Patient	Functional (Update/Delete Appointment)
RF-P.7	Automated Appointment Reminder Sending (Email/SMS).	Patient	Functional (Communication)
RNF-P.1	Performance Requirement: Fast response time for slot search (≤ 3 seconds).	Patient	Non-Functional (Performance)
RNF-C.1	Usability of the Patient Interface.	Patient	Non-Functional (Usability)

Feature 2: Consultation and EHR Administration

Req. ID	Grouped Requirement Description	Roles Involved	Type
RF-D.1 , RF-D.2	Work Schedule Configuration and Display of the Doctor's Consolidated Calendar.	Doctor	Functional (Schedule CRUD/View)
RF-D.3	Integration and Secure Access to the Patient's Electronic Health Record (EHR) before the consultation.	Doctor	Functional (Integration/Read)
RF-D.4	Update of Appointment Status (<i>In Progress, Completed, etc.</i>).	Doctor	Functional (Status Update)
RF-D.5	Attachment of New Diagnosis/Prescription Notes to the EHR after the consultation.	Doctor	Functional (Integration/Update)
RNF-S. 2, RNF-S. 3	Confidentiality and Traceability in the handling of medical data.	Doctor	Non-Functional (Security)

Feature 3: Operations and Management Reporting

Req. ID	Grouped Requirement Description	Roles Involved	Type

RF-A.3	Generation of Performance Reports and Comparisons (TC, AR, ACT, CR, PSI, OEI).	Administrator	Functional (Reporting/Analysis)
RF-A.4	Dynamic Billing Generation based on Services, Duration, and Insurance.	Administrator	Functional (Billing)
RF-A.5	Transaction Audit Module with logging of critical actions and timestamps.	Administrator	Functional (Compliance/Audit)
RF-P.8	Enabling the Post-Visit Patient Satisfaction Survey (PSI).	Patient/Administrator	Functional (Data Collection)
RNF-A.4	Strict Compliance with Health Data Privacy Regulations.	Administrator	Non-Functional (Legal)
RNF-P.2	Concurrency Requirement	All	Non-Functional (Performance)
RNF-C.2	Maintainability of the Source Code.	Development Team	Non-Functional (Maintainability)