

## Project Design Phase-II

### Solution Requirements (Functional & Non-functional)

Date	26-11-2025
Name	Sanjeevi M
Project Name	DocSpot – Doctor Appointment Booking System
Maximum Marks	4 Marks

#### Functional Requirements:

Following are the functional requirements of the proposed solution.

#### Functional Requirements – DocSpot

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Authentication	Sign up (patient/doctor/admin) <ul style="list-style-type: none"><li>● Login with JWT</li><li>● Password reset</li><li>● Role-based access</li></ul>
FR-2	Doctor Search & Profiles	Search doctors by specialization <ul style="list-style-type: none"><li>● View doctor details (experience, location, rating)</li><li>● View available time slots</li></ul>
FR-3	Appointment Booking & Management	Book appointment <ul style="list-style-type: none"><li>● Cancel appointment</li><li>● Reschedule appointment</li><li>● View appointment history</li></ul>
FR-4	Reviews & Ratings	<ul style="list-style-type: none"><li>● Patients submit doctor reviews</li><li>● View doctor ratings on profile</li></ul>
FR-5	Notifications	<ul style="list-style-type: none"><li>● Appointment confirmation alerts</li><li>● Appointment reminder notifications</li></ul>

### Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The platform should have a clean, intuitive UI suitable for all users, including non-technical patients.
NFR-2	Security	All data transfers must be encrypted; implement JWT token authentication and proper role access control.
NFR-3	Reliability	Appointment booking and schedule updates should work reliably under all conditions without data loss.
NFR-4	Performance	Pages should load within 2–3 seconds; appointment booking actions should be near-instant.
NFR-5	Availability	System should offer at least 99.9% uptime to ensure users can book appointments anytime.
NFR-6	Scalability	Should support high concurrency (many users at once) and allow future feature expansion.
NFR-7	Maintainability	Codebase should follow modular structure, making future updates easier.
NFR-8	Compatibility	Should run smoothly on all major browsers (Chrome, Edge, Firefox) and mobile devices.