

## 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.

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