Project Design Phase-II Solution Requirements (Functional & Non-functional)

Date	23-06-2025
Team ID	LTVIP2025TMID52550
Project Name	DocSpot: Seamless Appointment Booking
	for Health
Maximum Marks	4 Marks

Functional and Non-Functional Requirements Documentation

1. Functional Requirements:

Functional Requirements describe what the system should do — the specific features, services, and tasks the application must perform to meet user needs.

- User Authentication (FR-1): Allows users to sign up, log in, and reset passwords securely using JWT tokens.
- **Appointment Booking (FR-2):** Users can book, reschedule, or cancel appointments with doctors.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Authentication	Sign up, Login, Password Reset
FR-2	Appointment Booking	Search doctors by specialty, location, and availability Book, reschedule, and cancel appointments
FR-3	Calendar & Schedule Management	Freelancers apply to jobs View upcoming and past appointments
FR-4	Notifications & Reminders	Automated SMS/email reminders for upcoming appointments

2. Non-Functional Requirements:

Non-Functional Requirements define how the system performs — these include quality attributes such as performance, security, usability, and scalability.

- Security (NFR-2): Uses JWT for authentication and bcrypt for password encryption.
- **Usability (NFR-1):** UI built with React, MUI, and Bootstrap for a smooth, responsive user experience.

NFR No.	Non-Functional Requirement Description
NFR-1	Usability: The platform should provide a
	simple, clean UI for all users, including
	patients and healthcare providers.
NFR-2	Security: All patient and appointment
	data must be encrypted. Implement role-
	based access and secure authentication.
NFR-3	Reliability: Appointment booking,
	notifications, and telehealth services
	must always be available and
	dependable.
NFR-4	Performance: Pages and booking actions
	should be loaded within 2 seconds;
	reminders and notifications should be
	timely.
NFR-5	Availability: The system should ensure
	99.9% uptime with minimal downtime.
NFR-6	Scalability: Support a growing number of
	users, providers, and concurrent bookings
	without degradation.