Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	23 June 2025
Team ID	LTVIP2025TMID48939
Project Name	Docspot: Seamless Appointment Booking For Health

Functional Requirements:

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Doctor Discovery & Search	Filter by Specialty (Cardiology, etc.) Sort by Availability / Rating Keyword-based Search Function
FR-4	Appointment Management	Add to Calendar Cancel or Reschedule Appointment View Upcoming Appointments
FR-5	Booking Confirmation & Input	Input Contact Details & Symptoms Choose Payment Mode (Insurance / Cash) Receive Confirmation Notification
FR-6	Appointment Tracking	View Booking Status Estimated Wait Time on Dashboard
FR-7	Patient Account Management	Access Past Appointment History Upload/View Health Records Edit Profile & Reset Password
FR-8	Admin & Support Management	Approve Doctor Registrations Manage Feedback & Queries Monitor System Analytics

Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Interface is intuitive, clean, and responsive across mobile and web platforms. Users should be able to perform core tasks (search, book, cancel) easily without training.
NFR-2	**Security**	Role-based access is enforced using JWT. Passwords are encrypted using bcrypt. All sensitive data (medical records, user info) are securely stored and transmitted over HTTPS.
NFR-3	**Reliability**	The system ensures consistent performance and booking confirmation accuracy. Downtime is minimized and data is backed up regularly.
NFR-4	**Performance**	System responds to booking and search queries within 2 seconds under normal load. Optimized backend APIs and frontend rendering ensure fast navigation.
NFR-5	**Availability**	The platform remains accessible 24/7. Uptime of 99.9% is targeted through cloud hosting and monitoring tools.
NFR-6	**Scalability**	Built using microservice-compatible architecture and NoSQL database. The system can handle increasing users, appointments, and geographical expansion without reengineering.