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

Date	27 June 2025
Team ID	LTVIP2025TMID59561
Project Name	HealthAI: Intelligent Healthcare Assistant Using IBM Granite
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

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	Disease Prediction	- Symptom input by user - Disease prediction using AI/ML model
FR-4	Treatment Suggestion	- Suggest probable treatments - Redirect to chatbot or articles
FR-5	Chatbot Interaction	- General health questions - AI replies using trained models
FR-6	User Dashboard	- Show previous logs - Graphs/analytics on predictions
FR-7	Admin Panel	- View logs - Manage users - Track reports
FR-8	Customer Support	- Escalated chatbot queries routed to care executive

Non-functional Requirements:

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

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The system should offer a clean, intuitive UI for both web and mobile users.
NFR-2	Security	All user data must be encrypted. OAuth 2.0 used for login. Access control enforced.
NFR-3	Reliability	System should be able to handle failed predictions gracefully with fallback messages.
NFR-4	Performance	The AI prediction response time should be within 3 seconds on average.
NFR-5	Availability	The application must be available 99.9% of the time (except planned maintenance).

NFR-6	Scalability	Backend should support 10x user growth using horizontal scaling (e.g., via AWS or Firebase).