

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	27 june 2025
Team ID	LTVIP2025TMID59173
Project Name	HealthAI: Intelligent Healthcare Assistant Using IBM Granite
Maximum Marks	4 Marks

Functional Requirements:

These define **what the Health AI system should do**, i.e., features and behaviors that fulfill the user needs.

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	Health AI Chat	Symptom-based Chat with AI
		Natural language interaction with medical responses
FR-4	Health Monitoring Dashboard	View vitals (Heart Rate, BP, Glucose, etc.)
		Graph-based trend analysis
FR-5	Disease Prediction	Input symptoms to get probable conditions
		Use of AI model (IBM Granite/Hugging Face)
FR-6	Patient History Management	Track previous predictions, chats, reports
		Download or email history
FR-7	Appointment Booking	Request slot with doctor based on symptoms
		Confirmation & Reminder Notifications
FR-8	Admin Portal	Manage users, permissions, view analytics
		Configure AI thresholds and models

Non-functional Requirements:

These define **how the system should perform** rather than specific behaviors. These ensure **quality, security, and scalability** of the Health AI system.

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The interface must be easy to use for non-technical users (patients, doctors).
NFR-2	Security	Secure login, data encryption, and role-based access control.
NFR-3	Reliability	The system must provide consistent results and function correctly under load.
NFR-4	Performance	Fast AI responses, minimal delay in chat, graphs, and predictions.
NFR-5	Availability	24/7 system availability with minimum downtime (< 1%).
NFR-6	Scalability	Ability to handle increasing users and data without performance degradation.