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

Date	31 January 2025
Team ID	LTVIP2025TMID60000
Project Name	Health AI- 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	Health Data Input	Manual input of patient vitals Secured upload of medical reports and images
FR-4	AI-driven health analysis	Disease prediction based on symptoms and patient data Personalized treatment based on patient profiles
FR-5	Data security& privacy	Encrypting patient data Implementing role based access to limit data access
FR-6	Reporting &analytics	Develop interactive dashboards to visualize key health metrics Allow users to generate custom reports based on specific criteria

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The ease with which healthcare professionals and patients can interact with the AI system, including clear instructions and minimal training requirements for effective use in clinical settings
NFR-2	**Security**	The protection of sensitive patient data and system integrity from unauthorized access, breaches and cyber threats, ensuring compliance with regulations like HIPAA and maintaining patient privacy
NFR-3	**Reliability**	The consistent and accurate functioning of the AI-system, providing dependable results and predictions without errors or downtime, which is crucial for critical healthcare decisions and patient safety
NFR-4	**Performance**	The speed and efficiency of the AI system in processing data, generating insights and delivering responses, treatment planning and operational tasks in healthcare
NFR-5	**Availability**	The continuous accessibility of the AI system to authorized users whenever needed, minimizing downtime and ensuring that critical healthcare operations are not interrupted due to system unavailability
NFR-6	**Scalability**	The ability of the Ai system to handle increasing amount of data, users, and functionalities without compromising performance or stability, allowing for expansion and adaption to growing healthcare demands