Project Design Phase
Proposed Solution Template

Date	28 june2025
Team ID	LTVIP2025TMID50016
Project Name	HealthAI: intelligent healthcare Assistant Using IBM Granite
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	"To develop an AI-powered Intelligent Healthcare Assistant that can interpret natural language symptom descriptions from users and provide possible medical condition insights using IBM Granite's large language model, while ensuring safety, accessibility, and ease of use for early symptom awareness."
2.	Idea / Solution description	The proposed solution is a conversational AI-based healthcare assistant that leverages the IBM Granite 3.3-2B Instruct model to provide preliminary insights based on user-described symptoms. The system accepts natural language input, processes it into a structured prompt, and uses the Granite language model to suggest potential medical conditions. The assistant provides users with quick, informative feedback in a user-friendly and responsible manner, along with appropriate disclaimers to avoid misinterpretation as a formal diagnosis.
3.	Novelty / Uniqueness	The uniqueness of this solution lies in its integration of a large language model (IBM Granite 3.3-2B Instruct) with real-time natural language symptom interpretation, offering a lightweight and accessible AI healthcare assistant. Unlike traditional rule-based symptom checkers or static chatbots, this assistant dynamically generates intelligent, context-aware responses based on open-ended user inputs.

4.	Social Impact / Customer Satisfaction	Users feel more informed, more empowered, and more engaged in managing their personal health, all while respecting medical safety boundaries.
5.	Business Model (Revenue Model)	🧠 Health Model Overview – Intelligent Healthcare Assistant Large Language Model (LLM) – IBM Granite 3.3-2B Instruct
		Natural Language Understanding and Response Generation — the model interprets user-described symptoms and suggests possible health conditions in plain language.
6.	Scalability of the Solution	An AI-powered digital healthcare assistant that helps users analyze their symptoms through natural language interaction and receive informative insights — powered by IBM Granite. Individuals seeking early health guidance (especially in remote or underserved areas) Health-conscious consumers (urban professionals, students, elderly) Clinics, telemedicine platforms, and insurance providers NGOs & Government health missions