Project Design Phase
Proposed Solution Template

Date	30 june 2025
Team ID	LTVIP2025TMID32662
Project Name	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)	Individuals seeking health information online are often met with confusing, anxiety-inducing, and unreliable results. They lack a simple, trustworthy first stop for their common health queries.
2.	Idea / Solution description	An AI-powered web application that provides clear, structured, and empathetic answers to common health questions. It features three core tools: a Symptom Checker, a Prescription Analyzer, and a Diet Recommender, all powered by the IBM Granite foundation model.
3.	Novelty / Uniqueness	Unlike generic search engines, our solution provides **context-aware, conversational, and structured responses** tailored to specific health queries. Its uniqueness lies in combining three distinct but related healthcare tasks into a single, cohesive, and easy-to-use interface.
4.	Social Impact / Customer Satisfaction	The platform aims to **improve public health literacy** by making medical information more accessible. By reducing the anxiety associated with online health searches, it increases customer satisfaction and empowers users to have more informed conversations with their doctors.
5.	Business Model (Revenue Model)	The initial model is **Freemium**. The core service is free to the public to build a user base and gather feedback. Future revenue could be generated through a "Pro" subscription offering advanced features (e.g., chat history, wearable device integration) or a B2B model licensing the technology to clinics or telehealth platforms.
6.	Scalability of the Solution	The solution is highly scalable. The backend is built on FastAPI, a high-performance Python framework. The AI capabilities are hosted on IBM Cloud's `watsonx.ai`, which is a managed, serverless platform designed to handle massive, on-demand scaling without manual intervention.