Project Design Phase

Proposed Solution

Date	27 June 2025
Team ID	LTVIP2025TMID29210
Project Name	**Health AI: Intelligent Healthcare Assistant Using IBM Granite**
Maximum Marks	2 Marks

Proposed Solution:

S. No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Citizens often face difficulty in accessing timely, accurate, and personalized health advice. Challenges include self-diagnosing without medical input, lack of awareness about early symptoms, difficulty understanding treatment options, and limited engagement in long-term health monitoring.
2.	Idea / Solution description	**1. Disease Predictor** – Users enter symptoms; the system analyses them using AI models and personal data to predict potential illnesses and recommend appropriate next steps. **2. Personalized Treatment Planner** – Provides evidence-based, customized treatment options for diagnosed conditions, including medications, lifestyle tips, and test schedules. **3. Health Analytics Dashboard** – Visualizes health data over time, highlights health trends and offers AI insights and preventive care suggestions. **4. Patient Chat Assistant** – An interactive chatbot that answers health questions in clear, empathetic terms while guiding users to reliable sources and timely professional advice.

3.	Novelty / Uniqueness	Combines multiple AI health tools into a single, personalized platform. The use of symptom-based disease prediction, real-time treatment planning, and analytics visualization is unique when delivered together with a conversational, empathetic AI chat assistant. Integration of user profiles and medical data allows personalized health support rarely found in typical health apps.
4.	Social Impact / Customer Satisfaction	The platform democratizes access to reliable health information and services, improving health literacy and empowering users to make informed decisions. It reduces misinformation, promotes early intervention, and supports chronic disease management. Enhanced patient satisfaction stems from accessible, user-friendly tools that are available 24/7.
5.	Business Model (Revenue Model)	- **Subscription Plans**: Tiered access for individuals, families, or organizations. - **B2B Licensing**: Clinics, insurers, wellness platforms, and employers can license modules. - **Freemium Model**: Basic tools free; advanced insights and personal coaching behind a paywall. - **Data Services**: Aggregated (anonymized) data analytics for public health partners.
6.	Scalability of the Solution	Built on modular AI architecture and cloud-based deployment, the solution is scalable across cities, countries, and languages. It supports future expansion into areas like telemedicine integration, wearable device syncing, and multilingual support. Can serve individuals, clinics, and public health campaigns alike.