

## Project Design Phase

### Problem – Solution Fit

Date	19/05/2025 – 30/06/2025
Team ID	LTVIP2025TMID31711
Project Name	HealthAI: Intelligent Healthcare Assistant Using IBM Granite
Maximum Marks	2 Marks

### Problem – Solution Fit:

#### Problem Statement

Many individuals struggle to access quick, reliable, and personalized health information when they experience symptoms or want health guidance.

Common problems include:

- Lack of immediate medical assistance, especially in remote or underserved areas
- Confusion in identifying potential diseases based on symptoms
- Difficulty in managing chronic health conditions at home
- Lack of health awareness and data-driven monitoring tools

#### Proposed Solution – HealthAI

HealthAI is a Generative AI-powered web application that:

- Provides instant, AI-generated responses for symptoms, diseases, and treatment suggestions
- Enables users to log vitals (e.g., heart rate, glucose) and track them visually
- Uses IBM Watsonx AI to offer trusted health information
- Delivers a simple, user-friendly interface through Streamlit without the need for complex setup or registration

#### Purpose of the Fit

Purpose	How HealthAI Achieves It
✓ Solve complex problems aligned to user need	By offering AI-based health support accessible anytime via a browser
✓ Succeed faster via existing behavior	Users are already turning to online health queries—HealthAI taps into this
✓ Sharpen communication	Conversational interface helps users feel supported and heard
✓ Increase user touch-points	Encourages repeated use through dashboards and vitals tracking
✓ Improve the existing situation	Simplifies medical information and advice for everyday users

#### Target Users

- Students, workers, and individuals with limited medical access
- People seeking self-assessment or initial health checks
- Patients managing chronic diseases at home

#### Customer Behavior Insight

- Users prefer immediate, accurate answers rather than scrolling through articles
- Non-technical users want a smooth and visually guided experience
- Trust increases when data and suggestions are presented clearly, supported by AI/tech from reliable providers like IBM