Project Design Phase
Problem – Solution Fit Template

Date	08 June 2025
Team ID	LTVIP2025TMID60014
Project Name	Health ai: intelligent healthcare assistant using ibm granite
Maximum Marks	2 Marks

Problem – Solution Fit Template

Millions of people globally struggle to access accurate, reliable, and personalized healthcare information. In rural or underserved areas, access to doctors is often limited or delayed, leading individuals to depend on internet searches or unverified sources that may cause confusion, misinformation, or even harm.

Current tools such as basic symptom checkers or health apps are often generic, not intelligent, and lack personalization. They don't account for an individual's health history, context, or preferences. Meanwhile, chronic disease patients face a fragmented experience—using one tool for tracking, another for advice, and none for tailored recommendations.

In this environment, there's an urgent need for an intelligent, all-in-one healthcare assistant that provides medical Q&A, symptom evaluation, treatment planning, and health trend monitoring — all in a seamless, user-friendly platform.

Purpose:

The purpose of **Health AI** is to revolutionize digital healthcare assistance through the power of **IBM Granite's generative AI**. It aims to provide users with instant, personalized, and medically sound insights that enhance decision-making and promote better health outcomes.

Specifically, Health AI is designed to:

- **Empower users with trusted medical responses** to reduce dependence on unreliable sources.
- **Bridge the accessibility gap** in areas lacking immediate healthcare support.
- **Streamline healthcare tasks** by integrating diagnosis, treatment guidance, and analytics into one tool.
- **Support chronic patients and wellness seekers** by offering tailored lifestyle and monitoring tools.
- **Simplify user interaction** with an intuitive web interface (Stream lit), ensuring people of all tech levels can benefit.

Problem-Solution fit canvas 2.0

1. CUSTOMES SEQVIENT(S)

Identlying each seeking, accessibh, accurate heath information any lime. anywhere

6. CUSTOMER CONSTRAINTS

Limited access to reliable health information
- Lack of medicates. expertise
- Time. constraints
- Confidentanlly insiut
- Urgene flees a insigants

5. AVAILABLE SOLUTIONS

Existing businessikes online health calsers and consultaition services

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3. JOGS-TO 8 E DONE / PRODLENS

Helping users understand their health conditions, using avaiiable treatment options.

9. PROGLEN ROOT CAUSE

The need from credible real-liime healthcare information without hout professional support selfor.

Users avoid predential treatment plans with triggaimed confident vortumetst significant's urgerty

7. BEHAVIOUS

Users avoid professional care, potentally rradiagnose themselves, trilling comprehansiol treatment plana apply incorrect. TIXI treatments; volunteer signtcat time for research, efel.

Volunteenromculent ơne lime for research, as sirige glagging significant time for research.

Engage whielay A-solve time for research, and improvement.

3. TRIGGERS

Onset of symptoms, seeking Next-T treatment, crenhien diseases creating an urgent need of sompting unders tanding and

10. YOUR SOLUTION

HealthAL an intelligent healthcare assistant utflizing IBMs Granie idäp (M mantovern AI to provicle inteligent healthcare assistance, offsend by IBM W; IBM Weroph, useagrng A

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5.1 ONLINE CHANNELS

Webinars and conferences for both before and after users become

4. EMOTIONS BEFORG I AFTER

Coniiderice: Peace of mind knowing their treatment plan helps them stay healthy

3.2 OFFLINE CHANNELS

Webinars and conterences for both befors and after users become