

**Project Design Phase**  
**Problem – Solution Fit Template**

Date	15 February 2025
Team ID	LTVIP2025TMID60000
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 **HealthAI** 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, HealthAI 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 (Streamlit), ensuring people of all tech levels can benefit.

## Problem-Solution fit canvas 2.0

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<p><b>1. CUSTOMER SEGMENT(S)</b> <span>BE</span></p> <p>Identifying each seeking, accessible, accurate health information anytime, anywhere<sup>TM</sup></p>	<p><b>6. CUSTOMER CONSTRAINTS</b> <span>BE</span></p> <p>Limited access to reliable health information</p> <ul style="list-style-type: none"> <li>Lack of medicines, expertise</li> <li>Time, constraints</li> <li>Confidently insuit</li> <li>Urgence flees a insurgents</li> </ul>	<p><b>5. AVAILABLE SOLUTIONS</b> <span>BE</span></p> <p>Existing businesssks online health calasers and consultation services</p> <p><b>HealthAL intelligent hnti healthcates-assiant iukisiasim, IBM Gaimite 100 ih2N 2, 101<sup>TM</sup></b> purposes il il, fly, 101 101 save asiataions offering user decimate, provider nighilnautiats lasighils, treatment of,lemoir treubition<sup>TM</sup> resublvori, and afficiesidy.</p>
<p><b>3. JOBS-TO BE DONE / PROBLEMS</b> <span>BE</span></p> <p>Helping users understand their health conditions, using available treatment options.</p>	<p><b>9. PROBLEM ROOT CAUSE</b> <span>BE</span></p> <p>The need from credible real-time healthcare information without hout professional support selfor.</p> <p>Users avoid predential treatment plans with triggaimed confident vortumetst significant's urgency</p>	<p><b>7. BEHAVIOURS</b> <span>BE</span></p> <p>Users avoid professional care, potentially madiagnose themselves, trilling comprehansid treatment plana apply incorrect. TIXI treatments, <b>volunteer signtcat</b> time for research, efel.</p> <p>Volunteenromculent dne lime for research, as sirge glagging significant time for research.</p> <p>Engage whielay A-solve time for research, and improvement.</p>
<p><b>3. TRIGGERS</b> <span>BE</span></p> <p>Onset of symptoms, seeking Nexi-T treatment, crenbien<sup>TM</sup> diseases creating an urgent need of sompting unders tanding and</p> <p><b>4. EMOTIONS BEFORE AFTER</b> <span>BE</span></p> <p>Coniiderice: <b>Peace of mind</b> knowing their treatment plan helps them stay healthy</p>	<p><b>10. YOUR SOLUTION</b> <span>BE</span></p> <p><b>HealthAL an intel  gent healthcare assistant</b> utilizing IBMs Granie idāp (M mantovern AI to provide intelligent healthcare assistance, offsend by IBM W, IBM Weraph, useaging A</p> <p>Delivery Wel Prioritned/ heletpas onli i rēalaity Cīnarmels.</p> <p>Delivery As-Is Aficiencies on actan.com</p>	<p><b>5.1 ONLINE CHANNELS</b> <span>BE</span></p> <p>Webinars and conferences for both before and after users become</p> <p><b>3.2 OFFLINE CHANNELS</b> <span>BE</span></p> <p>Webinars and conferences for both before and after users become</p>