**Project Design Phase**

**Problem – Solution Fit Template**

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| --- | --- |
| Date | 27 – June-2025 |
| Team ID | LTVIP2025TMID30749 |
| Project Name | HealthAI: Intelligent Healthcare Assistant Using IBM Granite |
| Maximum Marks | 2 Marks |

**Problem – Solution Fit :**

**Project Title:**

HealthAI: Intelligent Healthcare Assistant Using IBM Granite

**What’s the Real Problem?**

* Many individuals face significant challenges in managing their health effectively due to: **Environmental stress** (e.g. energy/water overuse, carbon emissions).

· Lack of **instant, reliable** access to medical advice.

· **Confusing or conflicting** information from internet sources.

· **High cost and inaccessibility** of professional consultations.

· Inability to interpret **personal health metrics** (e.g., BP, sugar levels).

· No personalized guidance for **treatment plans** or **disease risk prediction**.

· Lack of tools for **long-term health monitoring** or AI-driven trend analysis

**Target Audience / Stakeholders**

· General public (patients, caregivers, elderly, health-conscious individuals)

· · Primary care providers and telemedicine services

· · Health tech startups and healthcare platforms

· · Health data analysts and app developers

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**Our Solution (What we built)**

**HealthAI** is an intelligent AI-powered healthcare assistant that:   
· Uses IBM’s **Granite-13b-instruct-v2** model for accurate medical Q&A.

· · Enables users to input symptoms for **disease prediction** with likelihood scores.

· · Generates **personalized treatment plans** based on patient data.

· · Provides a **chat-style interface** for health-related queries.

· · Offers a **Health Analytics Dashboard** to track vitals over time.

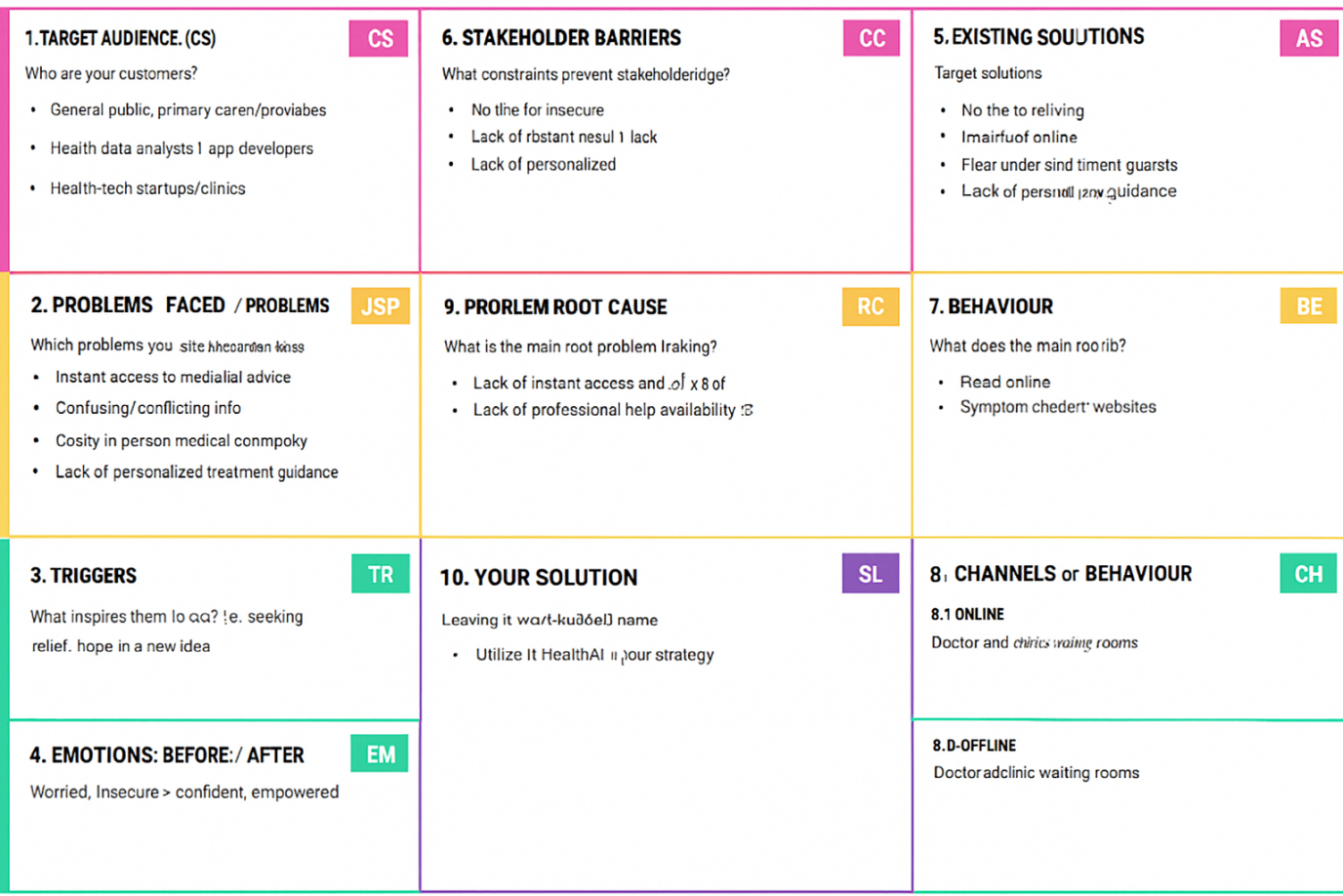
· · Delivers AI-generated **health insights** with trend visualizations.

· · Ensures **secure and user-friendly access** via a Streamlit web app.

### ****Purpose****

☑ Make trusted healthcare information accessible instantly through AI.  
☑ Reduce burden on medical facilities by offering pre-diagnostic support.  
☑ Empower users to manage health data and trends effectively.  
☑ Encourage preventive healthcare through personalized insights.  
☑ Promote digital health literacy with AI-driven tools.

**Problem Solution FIT canvas**

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