

Template:

Project Design Phase

Problem – Solution Fit Template

Date	27 June 2025
Team ID	LTVIP2025TMID59196
Project Name	HealthAI Intelligent Healthcare Assistant
Maximum Marks	2 Marks

Problem – Solution Fit Template:

The Problem-Solution Fit simply means that you have found a problem with your customer and that the solution you have realized for it actually solves the customer's problem. It helps entrepreneurs, marketers, and corporate innovators identify behavioral patterns and recognize what would work and why.

Purpose:

- ☒ Solve complex problems in a way that fits the state of your customers.
- ☒ Succeed faster and increase your solution adoption by tapping into existing mediums and channels of behavior.
- ☒ Sharpen your communication and marketing strategy with the right triggers and messaging.
- ☒ Increase touch-points with your company by finding the right problem-behavior fit and building trust by solving frequent annoyances, or urgent or costly problems.
- ☒ Understand the existing situation in order to improve it for your target group.

Template:

1. CUSTOMER SEGMENT(S):

Parents, working professionals, elderly people, and students needing instant health support.

2. JOBS-TO-BE-DONE PROBLEMS: Want to quickly check symptoms, get mental health support, emergency advice, doctor suggestions, or health tips.

3. TRIGGERS: Pain, emergency symptoms, emotional stress, need for second opinion, desire to save consultation fees.

4. EMOTIONS: BEFORE AFTER: Before: confused, scared, unsure what to do. After: confident, clear steps, comfort from AI guidance in their own language.

5. AVAILABLE SOLUTIONS: Google search, manual hospital visits, some limited language-based chatbot apps – but most are non-personalized or not user-friendly.

6. CUSTOMER CONSTRAINTS: Lack of time, high doctor consultation costs, travel issues, unavailability of doctors nearby, and language barriers

7. BEHAVIOUR: Delay in seeking help, using random non-trusted apps, relying on family suggestions or ignoring issues.

8. CHANNELS OF BEHAVIOUR: Users typically use mobile phones, WhatsApp, YouTube, or Google for health info – app/website must be mobile-first and multilingual. This project is implemented as a Gradio web interface with tabs like "Patient Chat," "Disease Prediction," and "Treatment Plan."

9. PROBLEM ROOT CAUSE: Lack of awareness and time, high cost, limited accessibility, and poor multilingual support.

10. YOUR SOLUTION: HealthAI is a multilingual, intelligent healthcare assistant built using IBM's Granite 3.3 2B Instruct model via HuggingFace, integrated through Gradio UI. The assistant answers health-related queries, predicts diseases from symptoms, and suggests treatment plans using advanced AI-driven logic. It supports symptom-based input, mental health queries, and emergency help in simple natural language.