**Project Design Phase**

**Problem – Solution Fit**

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| 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**

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| **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