**HealthAI: Intelligent Healthcare Assistant Using IBM Granite**

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| Date | 28 June 2025 |
| Team ID | LTVIP2025TMID34448 |
| Project Name | HealthAI: Intelligent Healthcare Assistant Using IBM Granite |
| Maximum Marks | 2 Marks |

## ****Problem–Solution Fit: HealthAI****

### ****Project Title:****

**HealthAI – Intelligent Healthcare Assistant Using IBM Granite**

### ****1. Target Group (Who has the problem?)****

* Patients with chronic illnesses (e.g., diabetes, hypertension) who require consistent monitoring and personalized care.
* Healthcare providers (clinics, doctors, telehealth services) looking to optimize patient engagement and outcomes.
* Elderly individuals managing multiple medications and appointments.
* Busy individuals who need quick access to trusted health advice and symptom checking.

### ****2. Problem (What problem do they face?)****

* Inconsistent and impersonal health monitoring outside clinical environments.
* Delayed access to reliable health information or diagnostics.
* Difficulty in understanding health data, symptoms, and medication routines.
* Lack of integration between different health platforms, leading to fragmented care.

### ****3. Existing Behavior (How is the problem currently addressed?)****

* Manual health tracking through apps or paper logs.
* Searching for symptoms online, often leading to misinformation.
* Periodic checkups with healthcare providers—often too infrequent for chronic conditions.
* Use of non-integrated digital health tools or chatbots with limited capabilities.

### ****4. Solution (What does your solution offer?)****

**HealthAI** is an intelligent, AI-powered healthcare assistant built using **IBM Granite**, offering:

* Personalized health insights and continuous monitoring through natural language interactions.
* Real-time symptom analysis and medication reminders.
* Integration with EHR systems and wearable devices for holistic patient views.
* A conversational interface trained on healthcare data to provide trustworthy, context-aware guidance.

### ****5. Differentiator (Why is your solution better?)****

* Utilizes **IBM Granite**, a state-of-the-art foundation model, for accurate, secure, and scalable AI performance.
* Bridges the gap between clinical care and daily health management with intelligent automation.
* Delivers contextualized advice based on individual history and behavior—not generic responses.
* Enhances trust through medically aligned data and privacy-first design.

### ****6. Expected Behavioral Change (What new behavior do you want to see?)****

* Patients use HealthAI daily for tracking symptoms, medications, and understanding their condition.
* Reduced reliance on unverified online sources for medical queries.
* Increased compliance with treatment plans and earlier detection of health anomalies.
* Health providers gain deeper insights into patient behavior and outcomes, enabling better remote care.

### ****7. Impact (How will this improve their life?)****

* Improved health outcomes through timely interventions and continuous engagement.
* Lowered stress and confusion around managing chronic conditions.
* Better doctor-patient communication and fewer missed details during appointments.
* More efficient, informed, and user-centric healthcare experiences.

### ****References:****

1. [IdeaHackers: Problem-Solution Fit Canvas](https://www.ideahackers.network/problem-solution-fit-canvas/)
2. [Medium: Problem-Solution Fit Canvas by Epicantus](https://medium.com/@epicantus/problem-solution-fit-canvas-aa3dd59cb4fe)