**Ideation Phase**

**Brainstorm & Idea Prioritization Template**

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| Date | 27 June 2025 |
| Team ID | LTVIP2025TMID29337 |
| Project Name | HealthAI: Intelligent HealthCare Assistant using IBM Granite |
| Maximum Marks | 4 Marks |

# Team Members & Roles

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| --- | --- |
| Name | Role |
| Sayandeep Maity | Team Leader, Full Stack & LLM Integration using IBM Granite |
| Prathi Adithya Durga Sri Krishna Kumar | Frontend Developer (Streamlit) |
| Madhurya Veera | Backend Developer(Python) |
| Kolli Veera Raghava Thanvi | Model Testing, Dashboard Data Aggregation |

# Step 1: Team Gathering, Collaboration, and Selecting the Problem Statement

**Problem Statement:**

To develop an AI-powered Intelligent Healthcare Assistant using IBM Granite LLM that helps users with real-time medical responses, disease prediction, personalized treatment plans, and health analytics—improving healthcare accessibility and informed decision making.

**Motivation:**

People often struggle to access timely, accurate, and personalized healthcare information. Traditional healthcare systems lack real-time support for symptom analysis, treatment guidance, and health monitoring. HealthAI bridges this gap by providing conversational AI for medical queries, AI-driven disease predictions, personalized treatment plans, and health analytics—empowering users to make informed health decisions quickly and confidently.

# Step 2: Brainstorming, Idea Listing, and Grouping

**Initial Ideas:**

* Integrate a conversational health assistant using IBM Granite
* Enable disease prediction based on user-reported symptoms
* Generate personalized treatment plans for users
* Visualize patient health metrics through an analytics dashboard
* Implement a user profile section with basic health details
* Build the app using Streamlit with Python backend and Plotly for charts

**Grouped into Modules:**

1. **Chat Module** – AI-powered patient chat using IBM Granite LLM
2. **Disease Prediction Module** – Predicts diseases from symptoms entered by users
3. **Treatment Plan Module** – Generates personalized treatment suggestions
4. **Health Analytics Module** – Displays patient health trends and metrics using Plotly
5. **Profile Management Module** – Manages user profile details like name, age, and blood type
6. **UI Module** – Streamlit frontend with navigation and feature-specific pages

# Step 3: Idea Prioritization (Final Version)

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| --- | --- | --- | --- |
| **Feature / Module** | **Importance** | **Feasibility** | **Notes** |
| **Chat Module** | High | High | AI-Powered Patient Chat Using IBM Granite LLM. |
| **Disease Prediction Module** | High | High | Predicts Diseases from Symptoms entered by users. |
| **Treatment Planner Module** | High | High | Generate Personalized treatment Suggestions. |
| **Health Analytics Module** | High | Medium | Displays Patient health trend metrics using Plotly. |
| **Profile Management Module** | Medium | High | Manages User profile details like name, age and Blood group. |
| **UI Module** | High | High | Streamlit Frontend with Navigation and feature Specification. |