Ideation Phase
Brainstorm & Idea Prioritization Template

Date	28 june 2025
Team ID	Team ID: LTVIP2025TMID50016
Project Name	HealthAI: Intelligent healthcare assistant Using IBM Granite
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

Great! Let’s walk through the Brainstorming and Idea Development phase based on your IBM Granite-based Health Assistant code.

🎯 Project Idea:

Build an AI-powered Intelligent Healthcare Assistant that uses IBM Granite LLM to analyze patient symptoms and suggest possible health conditions.

✅ Problem Statement:

Patients, especially in remote areas or during off-hours, often lack access to immediate medical guidance. There's a need for an intelligent assistant that can:

Collect symptoms

Analyze them with AI

Offer non-diagnostic, suggestive health insights

🤔 Brainstormed Features:

Feature Idea Why It’s Useful

🔷 Symptom Input Interface To allow users to describe issues easily via natural language

🔷 AI Analysis via IBM Granite Uses a powerful LLM to generate suggestive conditions from symptoms

🔷 Timestamp Logging Useful for tracking or auditing conversations

🔷 Friendly Conversational Output Makes interaction simple and human-like

🔷 Warning About Non-Diagnosis Ensures ethical use (not replacing a real doctor)

🔄 Brainstorm Enhancements:

Idea Impact

Add voice input using speech_recognition More accessible and hands-free

Connect to EMR or wearable data Gives more accurate suggestions

Add emergency contact alert feature Safety feature for critical cases

Build chatbot UI with Flask/Streamlit Move from CLI to web/mobile access

Include multi-language support Wider user base (non-English users)

🧠 Technologies Considered (during brainstorming):

LLM: IBM Granite (chosen), GPT-4 (alternative)

Frontend: CLI (current), Flask or Streamlit (planned)

Storage: SQLite or file logging (optional extension)

APIs: Integration with MedlinePlus or Mayo Clinic APIs (for verified info)

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Reference: https://www.mural.co/templates/brainstorm-and-idea-prioritization

Step 1: Team Gathering, Collaboration & Select the Problem Statement

Description:

The first step in building the Intelligent Healthcare Assistant involves assembling a multidisciplinary team, fostering collaboration, and selecting a meaningful healthcare challenge to solve.

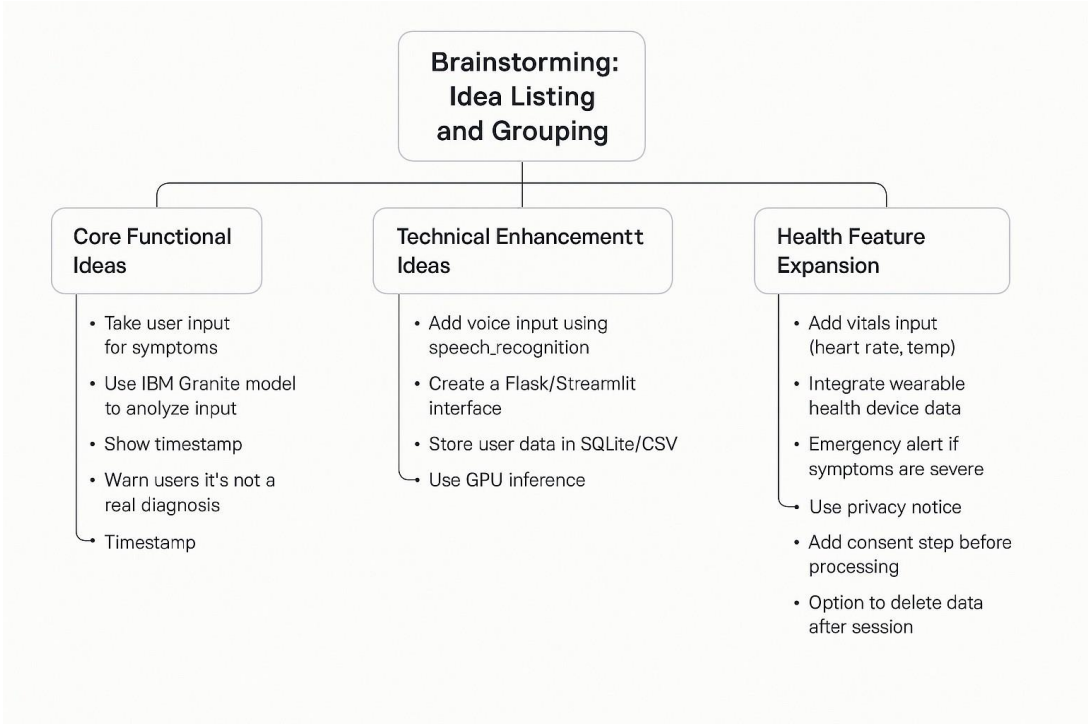
Activities Involved:

- Formed a team with diverse skillsets: AI/ML developers, frontend/backend coders, and a healthcare domain researcher.
- Conducted initial brainstorming meetings (in person or online) to share ideas and expectations
- Explored real-world healthcare problem such as:
  - Delayed access to doctors
  - Lack of symptom awareness
  - Absence of early screening trools
- Voted and finalized the problem statement:
  - "Build an AI-powered assistant that helps analyze symptoms und understand potential health conditions using natural language prompts."

Outcome:

Team is aligned with a shared vision to build a responsible, AI-powered healthcare assistant leveraging IBM Granite

Step-2: Brainstorm, Idea Listing and Grouping



Step-3: Idea Prioritization

Idea Prioritization

Idea	Impact	Effort	Priority
Symptom input via text	High	Low	Must Have
IBM Granite AI symptom analysis	High	Medium	Must Have
Show timestamp	Low	Low	Should Have
Diagnosis disclaimer	Medum	Medium	Could Have
Voice input (speech recognition)	Meidun	Medium	Coud Have
GUI with Flask/Streamiit	High	High	Could Have
Store data in SQLite/CSV	High	High	Won't Have (nov
Integrate wearable device data	High	High	Won't Have (now
Multi-language support	Medium	High	Won't Have (now
Emergency alert system	High	Wont have	Won't Have (now