Ideation Phase
Brainstorm

Date	27 June 2025
Team ID	LTVIP2025TMID31381
Project Name	HealthAI
Marks	4 marks

1.2. Brainstorming

The initial brainstorming for HealthAI focused on creating a user-centric application that empowers individuals with accessible health insights. Key ideas generated were:

- ➢ Core AI Capabilities: The need for a powerful Language Model capable of understanding complex medical descriptions and generating coherent, informative text. This led to the selection of IBM Granite model.
- ➢ User Interface Simplicity: An intuitive and quick-to-develop web interface was crucial for prototyping and user interaction. Streamlit was identified as an ideal framework due to its Python-native nature and rapid development capabilities.
- ➢ Data Persistence for Personalization: To enable personalized interactions and track patient history, a flexible database was essential. MongoDB was chosen for its NoSQL nature, accommodating diverse and evolving health record structures.
- ➢ Key Functionalities:
  - Symptoms to Disease Prediction: Allowing users to input symptoms and get potential disease predictions, along with likelihoods and next steps.
  - Home Remedies: A quick lookup for natural remedies for common ailments.
  - Personalized Treatment Plans: Generating tailored (though general) treatment suggestions based on diagnosed conditions and patient profiles.
  - Health Trend Analysis: Interpreting descriptions of vital signs over time to offer insights and recommendations.

Ideation Phase
Brainstorm

- General Health Chat: A conversational interface for any health-related queries.
- ➢ <u>User Management:</u> To ensure data privacy and enable personalized experiences, implementing a sign-up/sign-in system was deemed critical.
- ➢ <u>Security & Ethics:</u> Paramount importance was placed on securing user data (especially passwords) and clearly disclaiming that AI advice is not a substitute for medical consultation.