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