Project Design Phase-II
Data Flow Diagram & User Stories

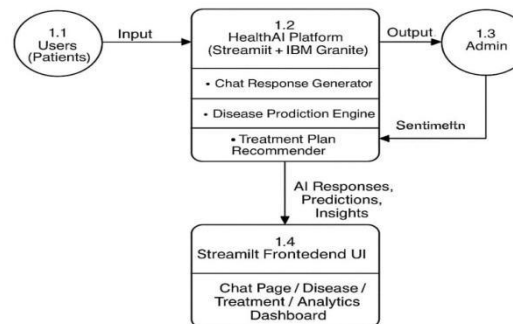| Date	27 June 2025
Team ID	LTVIP2025TMID29337
Project Name	Health AI: Intelligent Healthcare Assistant Using IBM Granite
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

DFD Level 0 – Context Diagram
- External Entities: Users (Patients) (wet₋rdira IBM Granite LLM
- Processes:
1 Accept User Input (Chat, Symptoms/Queries/Health Data)
2 Process Input Using IBM Granite
3 Generate AI Responses (Chat, Disease Prediction, Treatment Plans)
4 Visualize Health Data on Dashboard
5 Provide Output to User

DFD Level 1 – Decomposisition Example
1.1 Accept Input (Chat, Symptoms, Condition, Healit Metrics)
1.2 Process Input Using IBM Granite (Chat Response, Disease Prediction, Treatment Recommendation)
1.3 Generate Output for Each Module (Chat Reply/Prdiction Treatment Plan/Analytics Insights)

User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Patient (Web User)	Registration/Login	USN-1	As a Patient, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard and chats	High	Sprint-1
Patient (Web User)	Patient Chat Assistant	USN-2	As a patient, I can ask health-related questions and receive clear, empathetic AI responses with medical facts and advice when to consult a doctor.	I get a factual, empathetic response with limitations explained and suggestions for professional consultation if needed.	Medium	Sprint-1
Patient (Web User)	Disease Prediction	USN-3	As a patient, I can input my symptoms to receive possible condition predictions with likelihoods and next steps.	I get list of predicted conditions with likelihood scores and recommended next actions.	High	Sprint-1
Patient (Web User)	Treatment Plan Generator	USN-4	As a patient, I can enter my diagnosed condition to receive personalized treatment plans including medications, lifestyle changes, and follow-up tests.	I receive a treatment plan that includes evidence-based medications, lifestyle advice, and recommended tests.	High	Sprint-2
Patient (Web User)	Health Analytics Dashboard	USN-5	As a patient, I can view my health trends and vital signs over time with AI-generated insights and recommendations.	I see graphical trends of my vitals and get insights with improvement suggestions or alerts for concerns.	High	Sprint-2
Admin(Government)	Authentication	USN-6	As an admin, I can securely log in to manage the Health AI system and access only authorized administrative pages.	I am redirected to the admin dashboard after successful login, and unauthorized access is restricted.	Medium	Sprint-2