

# Project Design Phase-II

## Data Flow Diagram & User Stories

Date	27 June 2025
Team ID	LTVIP2025TMID59196
Project Name	HealthAI    Intelligent    Healthcare Assistant
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.

**User Input (Symptoms/Questions)**



**Gradio Chat Interface**



**Python Backend Processing**



**IBM Granite LLM (via HF)**



**AI-generated Health Advice**



**Response Shown to User**

## 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 / End User	Symptom Input (Data Entry)	USN-1	As a user, I can enter my symptoms using voice or text	I can submit symptoms through voice or text interface	High	Sprint-1
Patient / End User	Symptom Mapping & Storage	USN-2	As a user, my symptoms are stored and mapped for further analysis	I can see that my symptoms are accepted and saved	High	Sprint-1
ML/AI Engine (System)	Data Preprocessing	USN-3	As a system, I can handle missing values and encode categorical symptom data	Preprocessing happens with no missing data errors	High	Sprint-1
ML/AI Engine (System)	Disease Prediction	USN-4	As a system, I can predict	I receive a list of possible conditions	High	Sprint-2

			possible diseases based on the symptoms given by the user	ns based on input symptoms		
Patient / End User	Model Response	USN-5	As a user, I can view health suggestions or predicted conditions on screen	I receive readable health output instantly	High	Sprint-2
Web UI User	HTML Frontend	USN-6	As a user, I can interact with a simple and clean health assistant page	I can open and interact with the page without errors	Medium	Sprint-2
System Admin / DevOps	Gradio Deployment	USN-7	As an admin, I can deploy the AI model and connect it with the web interface using Gradio	I can access the assistant online and it runs successfully	High	Sprint-2

