Data Flow Diagram & User Stories

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Team ID: LTVIP2025TMID32616

Project Name: HealthAI: Intelligent Healthcare Assistant

Maximum Marks: 2 Marks

Data Flow Diagrams:

Level 0 DFD: The user interacts with the HealthAI system through a Streamlit interface. User inputs (symptoms, health metrics, questions) are processed by the application logic in Python. The AI service layer (IBM Watson ML) generates responses or predictions, which are returned to the user. Session and temporary data are stored in local memory.

Level 1 DFD: Each feature—Patient Chat, Disease Prediction, Treatment Plan, and Health Analytics—has a data flow that sends input to the AI model, receives structured output, and updates the UI accordingly.

User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority / Release
Patient	Chat with HealthAI	USN-1	As a user, I can ask health-related questions via chat.	AI responds with relevant, empathetic medical information.	High / Sprint-1
Patient	Disease Prediction	USN-2	As a user, I can enter symptoms and get potential disease predictions.	System returns top 3 likely conditions with suggestions.	High / Sprint-1
Patient	Treatment Plan	USN-3	As a user, I can receive a treatment plan for a given condition.	System gives medication, lifestyle, and testing guidance.	High / Sprint-2

Patient	Health Analytics	USN-4	As a user, I can view visualizations of my vital signs over time.	Charts and summary insights are displayed clearly.	Medium / Sprint-2