Data Flow Diagram & User Stories

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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 |