3. REQUIREMENT ANALYSIS

3.1 Customer Journey Map

A user opens the HealthAI web app, inputs symptoms in simple language, and receives AI-generated potential condition suggestions. They also get advice on urgency levels and are encouraged to consult professionals when needed.

3.2 Solution Requirement

Functional Requirements: Input field for symptoms, AI-based condition predictions, explanation section, responsive UI.

Non-Functional Requirements: Cloud-based deployment, fast response, educational content delivery, accessibility.

3.3 Data Flow Diagram

[User Input (Symptom Description)]

↓

[Streamlit Frontend]

↓

[Symptom Sent to Backend / AI Model]

↓

[Hugging Face / IBM Granite Response]

↓

[Condition Prediction + Suggestion Rendered to User]