# HealthMate AI – System Architecture

**HealthMate Frontend (React)**
- Voice/Text Chat Input
- Sends symptoms viaAPI

**FastAPI Backend**
- Handles voice/text input
- Calls symptom classifier
- Triggers RAG pipeline
- Returns response to front-end

**Symptom Classifier**

**Retrieval**

Extracts symptoms from user input

**(5) User** — User Question

**(6)** — Embedding Model

**(7)** — Similarity Search

**(8)** — Output Parser

**Vector Store** Symptoms / Diseases

**Generation**
(9) LLM Model Invocation
LLM: GPT-3.5 / FLAN-T5
(10) Response

**PostgreSQL Database**
- User profiles
- Chat history
- Diagnosed conditions