

Enhancing Hospital Operations with multi-agent AI system

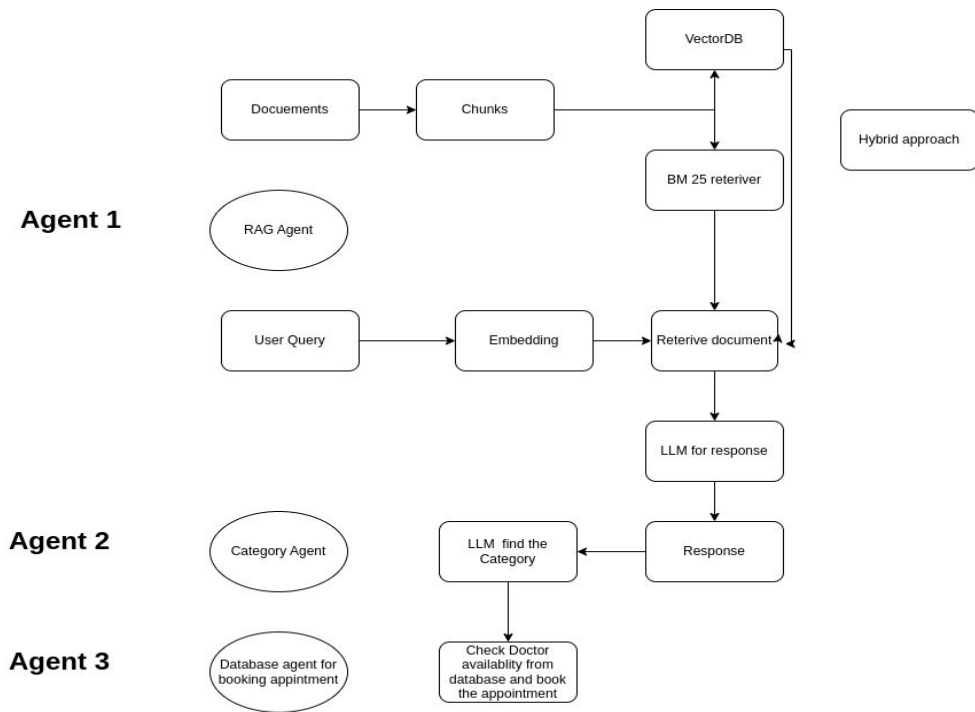
This multi-agent AI system is designed to streamline medical inquiries and appointment scheduling, improving the overall efficiency and patient experience at the hospital.

High-Level Architecture

- **RAG Agent:** Handles medical inquiries from patients, providing information and guidance.
- **Category Agent:** Classifies patient queries into relevant medical categories to direct them to appropriate specialists.
- **Database Agent:** Manages and retrieves doctor availability to facilitate appointment scheduling.



Architecture



Inquiry and Appointment Workflow

Medical Inquiry

Patient submits a medical inquiry through the system.

RAG Response

The RAG Agent processes the inquiry and provides relevant information and Category

Appointment Scheduling

The patient can then schedule an appointment with an available doctor.

Key Agent Capabilities

- **RAG Agent**

Leverages natural language processing to understand and respond to medical inquiries.

Provides tailored information and guidance to patients based on their symptoms and concerns.

- **Database Agent**

Maintains an up-to-date database of doctor availability and schedules.

Efficiently retrieves and shares relevant information to facilitate appointment booking.



Thanks

