CHATBOT FOR MEDICAL QUERIES

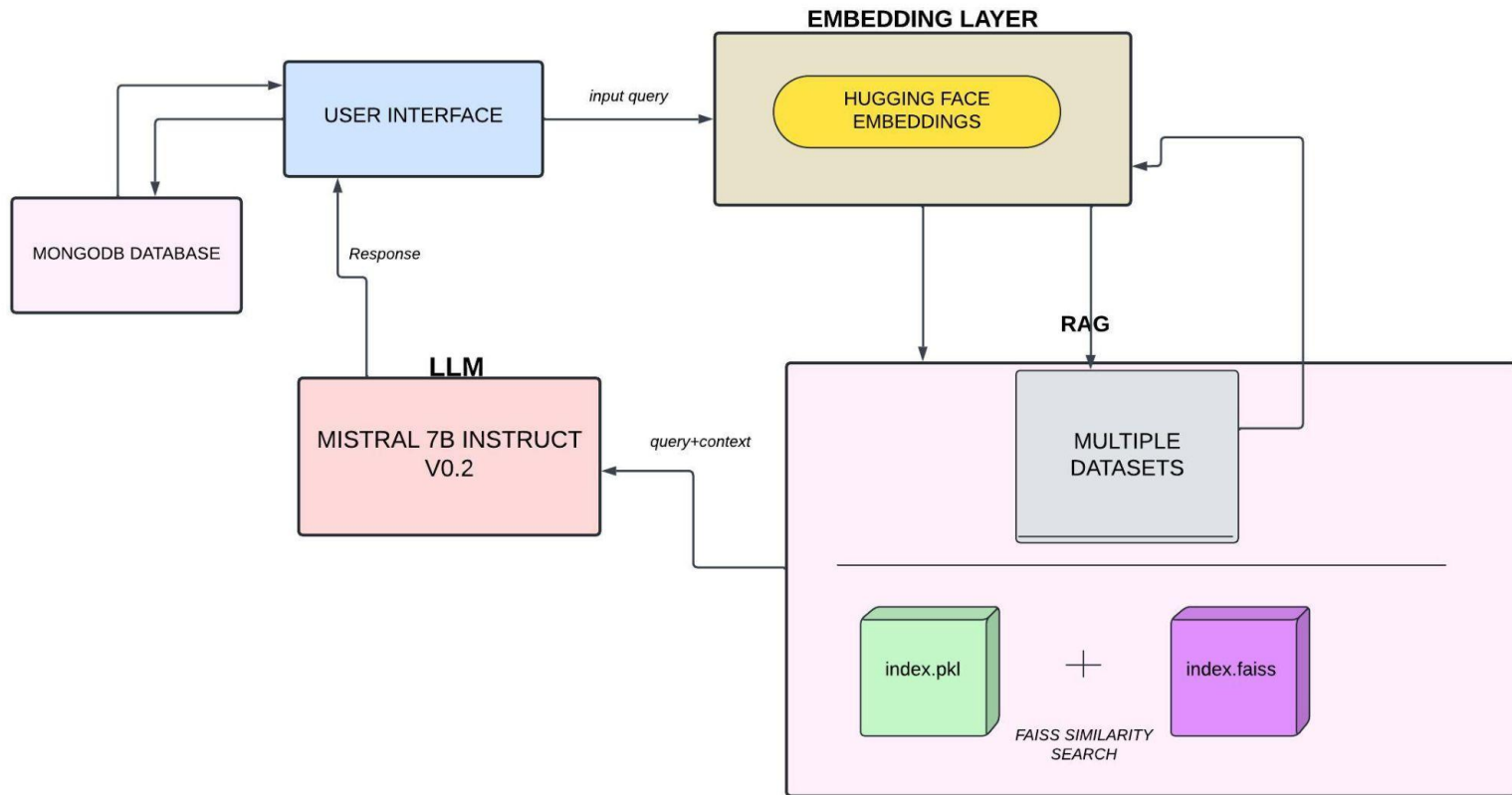K.RISHIKA REDDY
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USE CASES OF THE PROJECT:

1. Symptom assessment: Patients can describe their symptoms and receive initial guidance on possible causes and whether they should seek professional medical care.
2. General health information: The chatbot can provide basic information on various health conditions, medications, and wellness topics.
3. Appointment scheduling assistance: The chatbot could help patients determine what type of doctor they need to see and assist with booking appointments
4. Medication: It can provide information on drug interactions, side effects, and dosage instructions.
5. Mental health support: The chatbot could offer initial counseling and resources for common mental health concerns.
6. Remote areas support: In regions with limited access to healthcare, it could provide basic medical guidance.
7. After-hours support: The chatbot can be available 24/7 to address non-emergency health concerns when clinics are closed.
8. Health education: It can provide general wellness advice and explanations of medical terms or procedures for research and development.
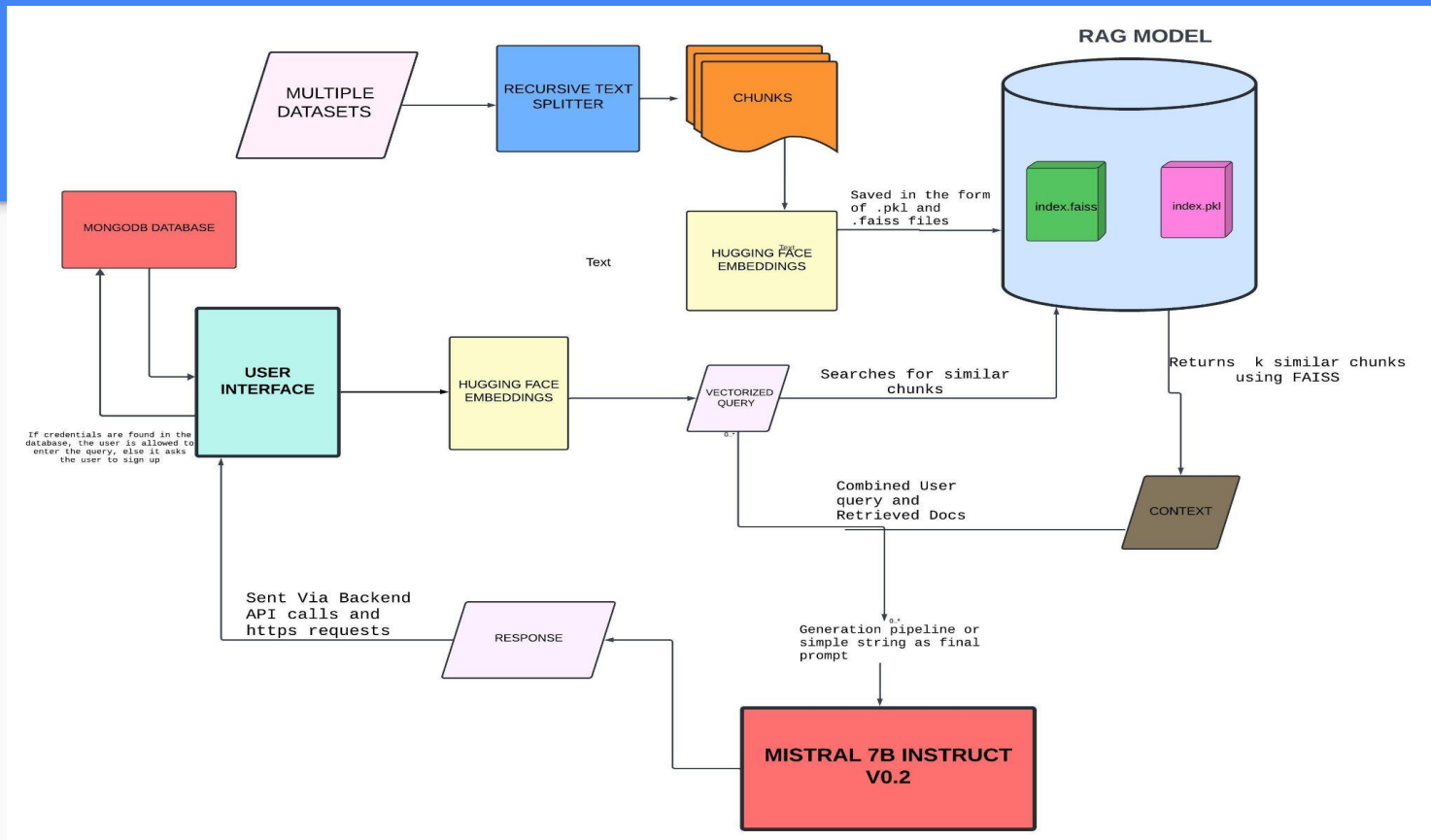
POTENTIAL UPGRADES

1. Enhanced Knowledge Base: Incorporate comprehensive medical datasets to broaden the chatbot's expertise and improve diagnosis accuracy.
2. Language Diversity: Implement support for multiple languages to cater to a global user base and overcome linguistic barriers.
3. Voice Interaction: Integrate speech recognition and text-to-speech capabilities, allowing users to verbally describe symptoms and receive spoken advice.
4. Visual Diagnosis Assistance: Enable the chatbot to analyze uploaded medical images such as skin conditions, X-rays, or other visual symptoms to aid in preliminary assessments.
5. Symptom Severity Assessment: This upgrade could potentially save lives by helping users determine when they need immediate medical attention versus when self-care is appropriate
6. Geo-specific Health Advice: Tailor recommendations based on the user's location, considering local health trends, available resources, and regional medical guidelines

ARCHITECTURE DIAGRAM

WORKFLOW

DEMONSTRATION