

User Interface (Streamlit)

- Upload Documents (PDF, DOCX, TXT)
- Select Category (High/Medium Priority)
- Input User Query

(uploads document, query input)

Document Processing & Categorization

- Document Loaders (PyPDFLoader, Docx2txtLoader, TextLoader)
- RecursiveCharacterTextSplitter
- OpenAIEmbeddings
- Chroma Vector Database (Document Storage)

Retrieval-Augmented Generation (RAG)

- Query Chroma Vector Database (Category A & B)
- Retrieve Documents from Chroma
- Prioritize Category A over Category B
- Combine and Prepare Context for LLM

OpenAI LLM (GPT-4) API

- LLM Integration (Prompt with context from Chroma)
- Generate Response based on Retrieved Documents

Display Response to User

- Output Answer from LLM