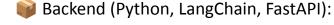
# Project: Company Knowledge Assistant (RAG + Agent)

## \* Description:

A smart assistant that helps employees query internal documents (project specs, HR policies, meeting notes, etc.) using natural language. The system uses Retrieval-Augmented Generation and LangChain agents to reason, search, and respond based on company documents.

### Features:

Upload company documents (PDF, DOCX, TXT, Markdown, etc.)
Semantic search using vector database (RAG)
Conversational UI with memory and context
LangChain agent to answer complex queries with reasoning
User roles: Admin (manage documents), Employee (chat assistant)
Real-time web UI with Chainlit



#### Document ingestion pipeline:

Extract text from PDFs, DOCX, images (OCR) Chunking & metadata tagging Embedding with OpenAI, Cohere, or Gemini Store in vector DB (Chroma / FAISS / Weaviate / Qdrant)

#### RAG setup:

LangChain Retriever

+

ConversationalRetrievalChain Optionally ensemble retriever for multimodal

### Frontend (Chainlit):

Company-branded chatbot interface Role-based interaction: show admin upload panel, employee chat Message history, citations, source document highlights