

Chatbot for Multi-Format Documents

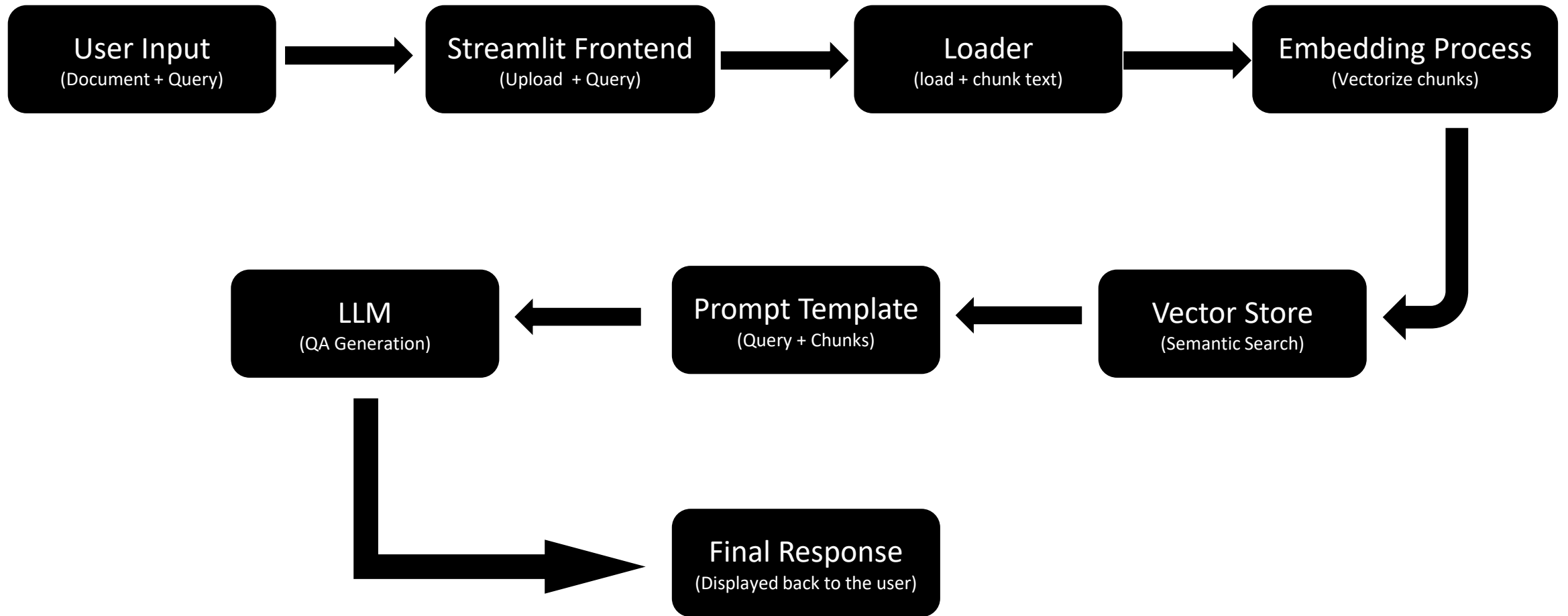
Architecture & Flow

A streamlined PDF chatbot using LangChain with HuggingFace embeddings, built for answering user queries from uploaded documents.

Architecture

Component	Role
Loader	LangChain loader to extract and chunk from uploaded documents (PDF, DOCX etc.)
Embedding Process	Applies HuggingFace embeddings to convert chunks into vectors
Vector Store	Uses FAISS (Facebook AI Similarity Search) to store and retrieve relevant chunks
Prompt Template	Combines query and retrieved chunks to guide the LLM
LLM	Uses DeepSeek Model via OpenRouter API with context-aware answers
Streamlit UI	For Frontend that sets for user interaction having page config, title, and description.

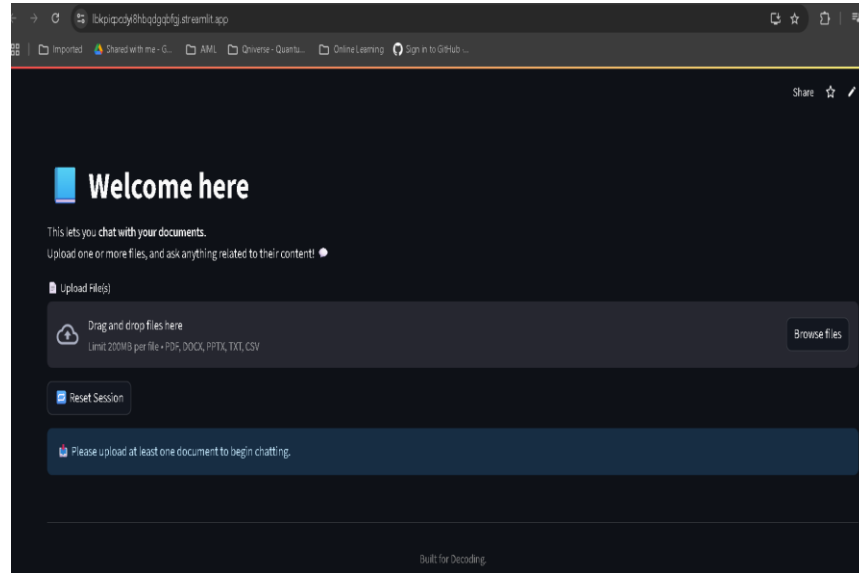
Flow



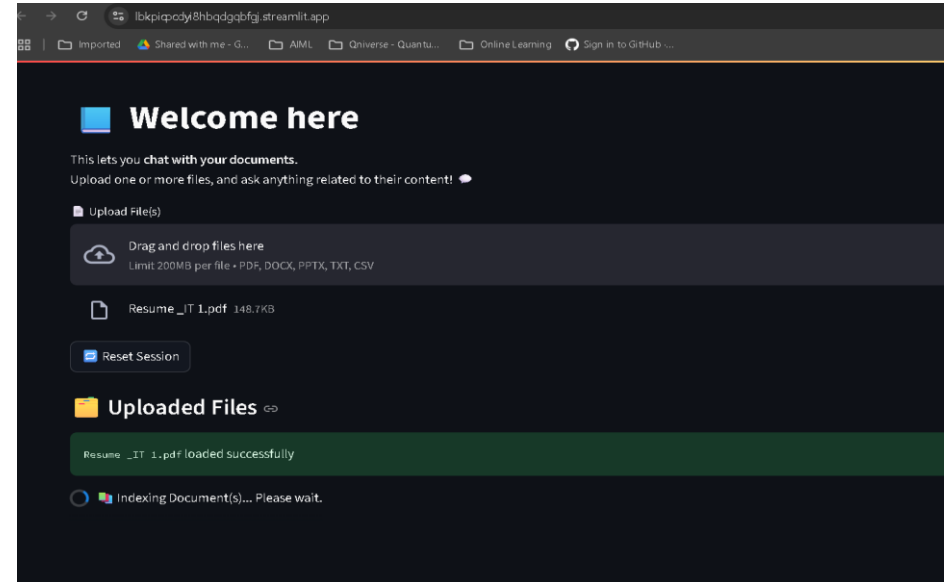
Screenshots

PDF

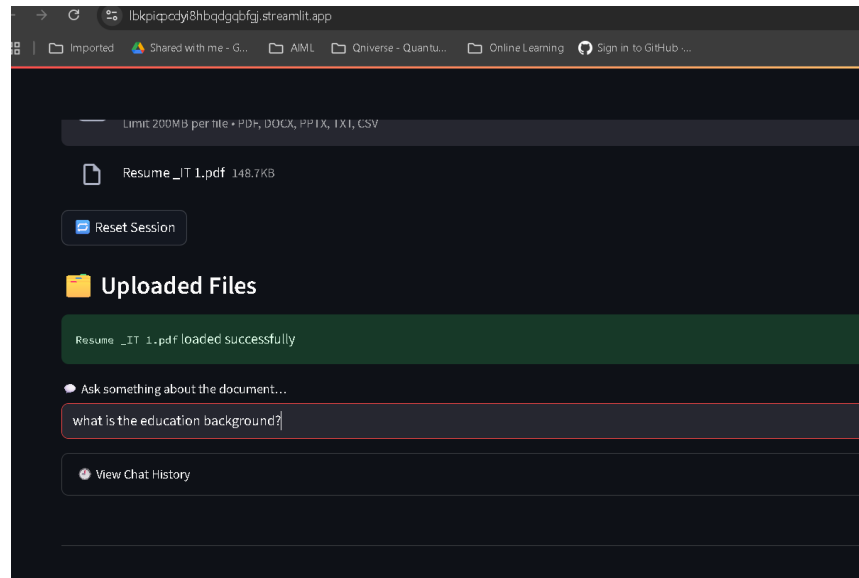
Home Page



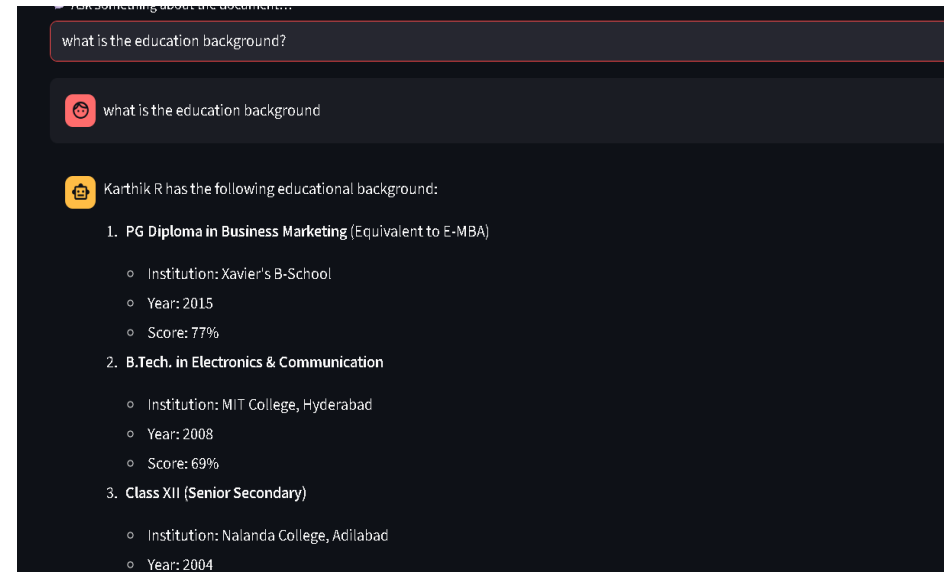
User Input



User Query



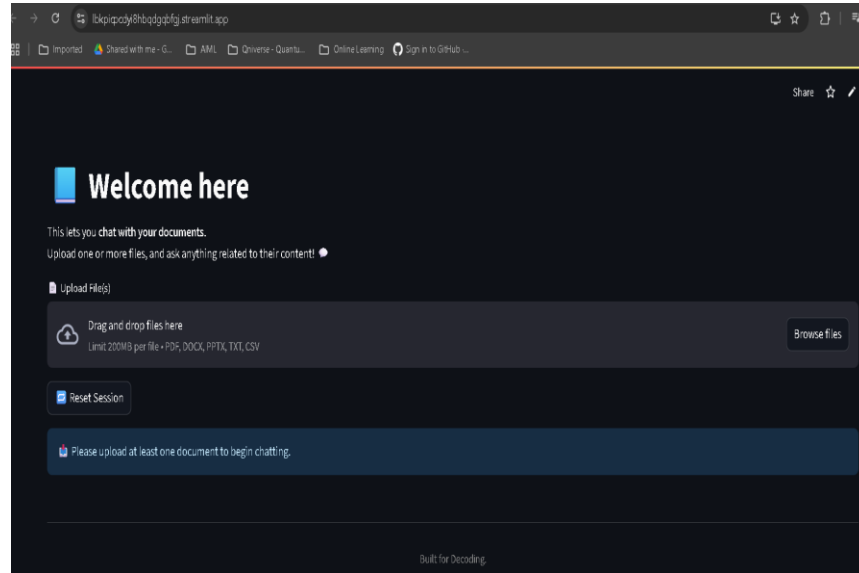
Response



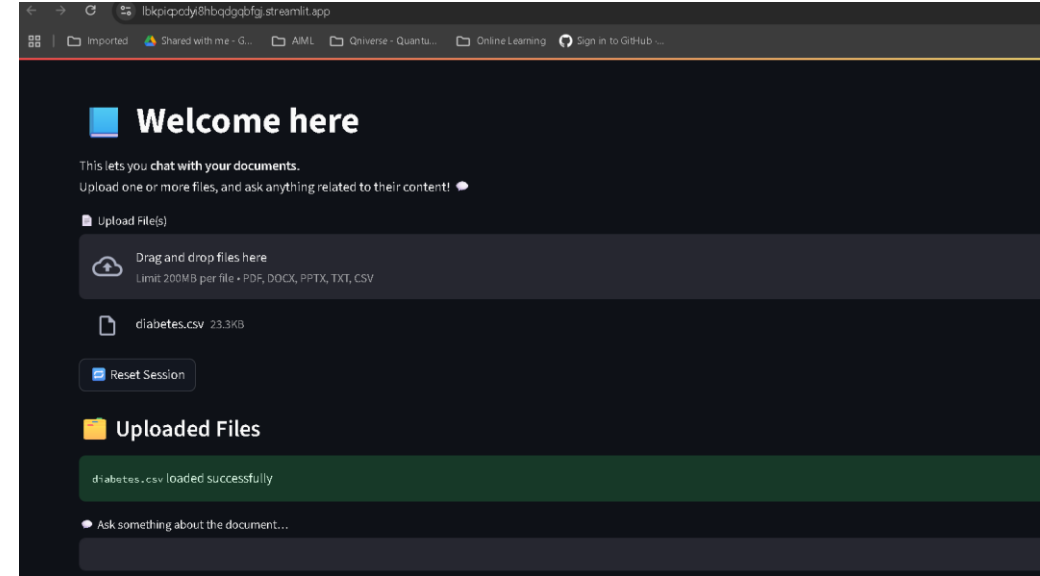
Screenshots

CSV

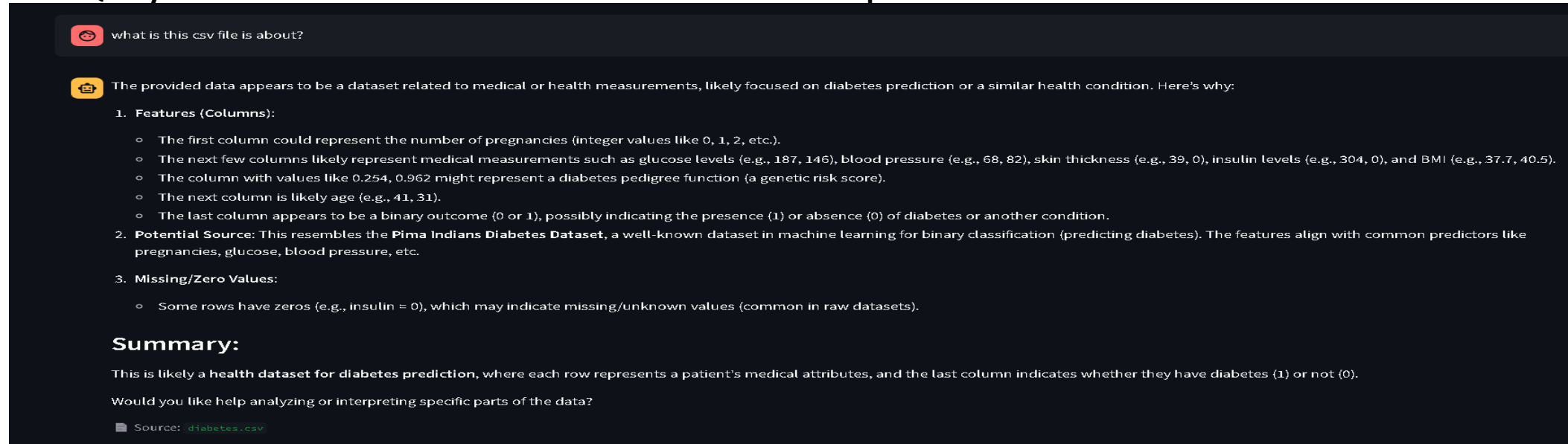
Home Page



User Input



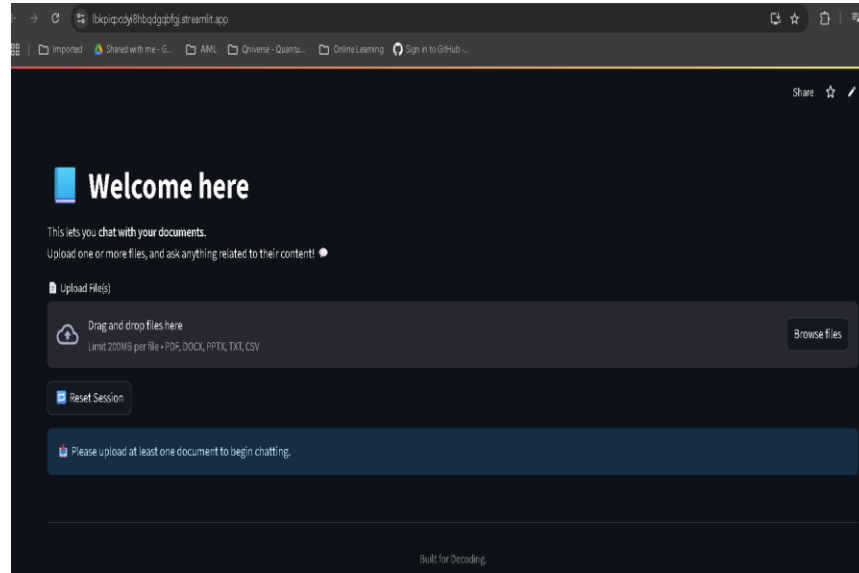
User Query



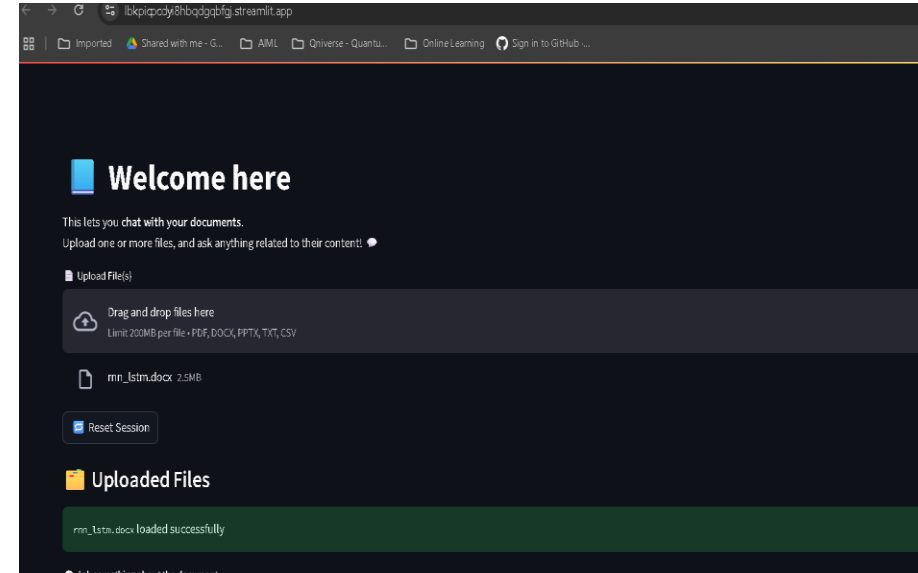
Screenshots

DOCX

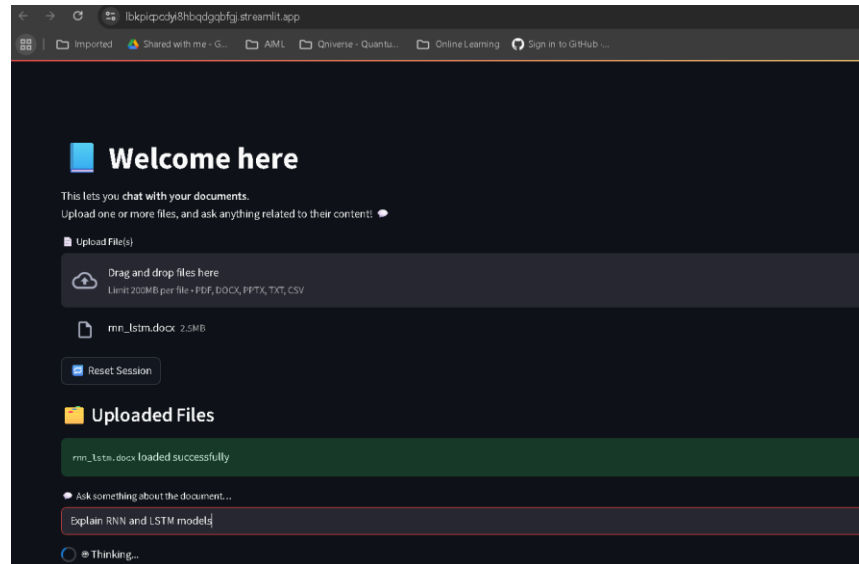
Home Page



User Input



User Query



Response

