Multi-PDF Chatbot

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PROJECT INTRODUCTION

- This project is a comprehensive Python application that combines text extraction, document analysis, language translation, and email automation.
- The system is designed to facilitate efficient handling of multiple PDF documents, enabling users to upload files, extract text by posing targeted questions, and receive precise language translations along with email capabilities.
- This application is valuable for professionals, researchers, and students seeking to expedite document analysis, perform language translation, and sharing information within their respective domains.

PROJECT FEATURES

Efficient Document Understanding

The application streamlines document comprehension through advanced text extraction, vector representations, and a responsive chatbot, enabling users to interactively explore and gain insights from complex PDF files.

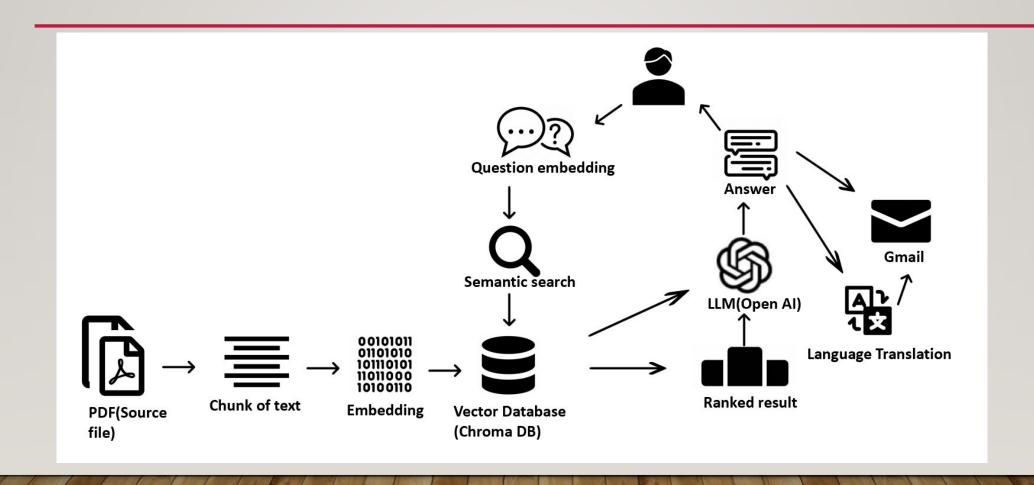
Multilingual Access and Collaboration

Overcoming language barriers, the tool facilitates precise language translations within the document, promoting collaboration among users with different language preferences and enhancing accessibility to a wider audience.

Workflow Optimization with Email Automation

The integration of GMail API automates the email process, allowing users to seamlessly share valuable document excerpts or insights with colleagues. This feature optimizes communication workflows and enhances overall productivity.

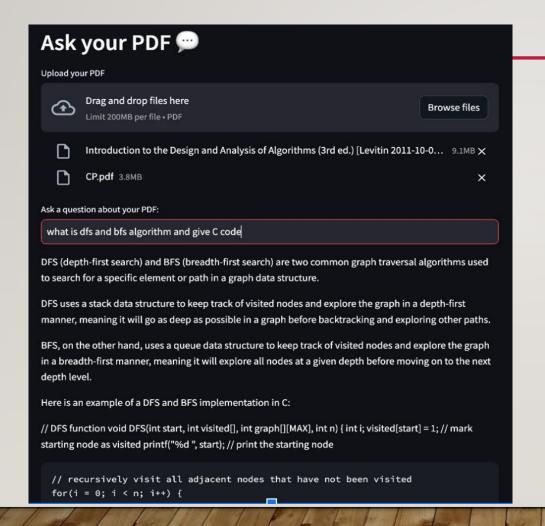
PROJECT ARCHITECTURE



TOOLS AND TECHNOLOGIES USED

- Streamlit Frontend user interface
- Langchain -
 - CharacterTextSplitter
 - OpenAlEmbeddings
 - Load_qa_chain
 - PromptTemplate
- OpenAl LLM
- Chroma DB Vector Database
- GMail API Integration and authentication with Google Cloud Platform (GCP)
- PyPDF2 Retrieve text and metadata from PDF

DEMO AND CONCLUSION



```
// Structure pour représenter un nœud dans le graphe struct Node { int value; struct Node* next; };
// Structure pour représenter le graphe struct Graph { int numVertices; struct Node** adjLists; };
// Fonction pour créer un nouveau nœud avec une valeur donnée struct Node* createNode(int value) {
struct Node* newNode = malloc(sizeof(struct Node)); newNode->value = value; newNode->next = NULL;
return newNode; }
// Fonction pour créer un graphe avec un nombre donné de sommets struct Graph* createGraph(int
vertices) { struct Graph* graph = malloc(sizeof(struct Graph)); graph->numVertices = vertices;
 // Allocation de mémoire pour les listes d'adjacence
 graph->adjLists = malloc(vertices * sizeof(struct Node*));
 for (int i = 0; i < vertices; i++) {</pre>
      graph->adjLists[i] = NULL;
 return graph;
// Reste du code...
Do you want a copy of this to be emailed?
                                                                                             8 v
 Yes
Enter Email Address
 shreyasrajiv327@gmail.com
                                                                                     Press Enter to apply
```