QUESTION ANSWER MODEL

This application helps you to upload, download, update, and delete PDF files and find relevant answers from the pdf with the help of a language model.

- Follow these steps to run this application and Start the FastAPI server:
- → To start the FastAPI server, you need to run this command:

```
uvicorn main:app --reload
```

→ To access the application you need to click on this url (Uvicorn running on)

```
http://127.0.0.1:8000.
```

→ API documentation will be available at this url (Swagger url)

```
http://127.0.0.1:8000/docs#/
```

All API Routes

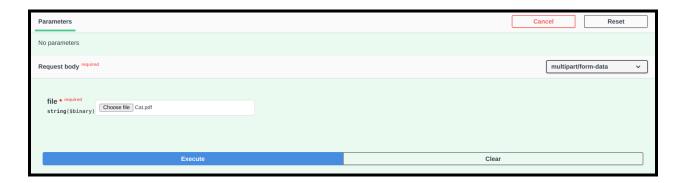
This are the all API routes present in this application.



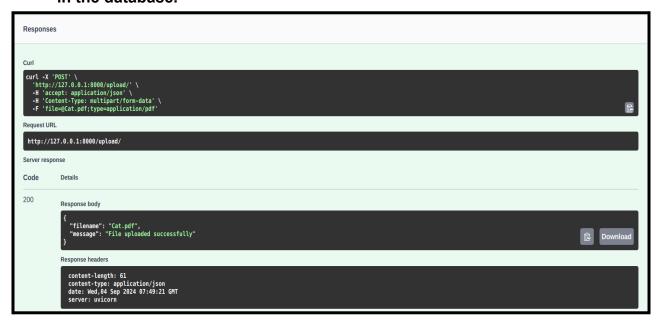
API Routes

```
@app.post("/upload/")
```

- → This API helps you upload a PDF file to a given directory path and database in embedding form of data.
- Requested parameter:
 - → You can choose a file from your system to upload to the database.



- Response :
 - → After successfully executing the API, the file uploaded successfully in the database.

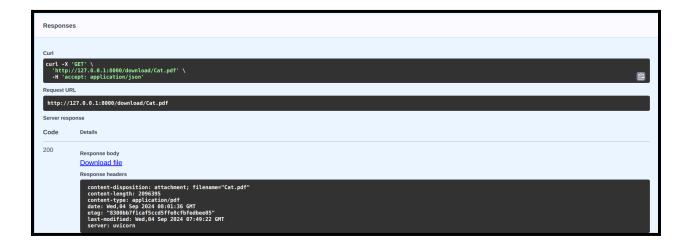


```
@app.get("/download/{filename}")
```

- → This API helps you download PDF files from a given directory path and database.
- Requested parameter:
 - → Enter the file name that you want to download from the database.



- Response:
 - → After successfully executing the API, you get a download link. After clicking in this, your file is successfully downloaded in your system.



```
@app.put("/update/{filename}")
```

- → This API helps you update a PDF file's uploaded data and in the database in embedding data
- Requested parameter:
 - → Enter the file name that you want to update and select the file that you want to replace data with.



- Response:
 - → After successfully executing the API, your pdf data will be updated.

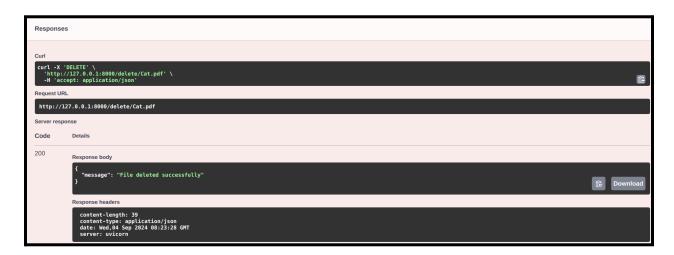


```
@app.delete("/delete/{filename}")
```

- → This API helps you delete a PDF file's from path and database.
- Requested parameter:
 - → Enter file name wich you wana delete from path and database.



- Response :
 - → After successfully executing the API, your pdf file will be deleted successfully.

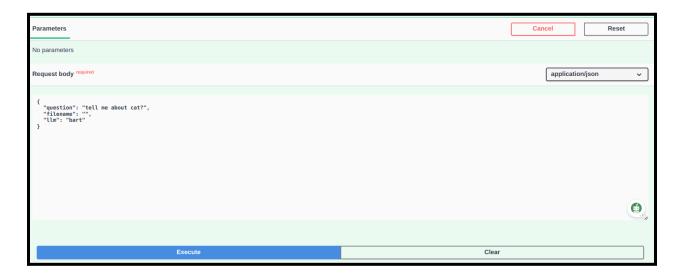


```
@app.post("/question", response_model=QuestionResponse)
```

→ This API helps you get answers to questions using the stored embeddings, and those answers are relevant content of the uploaded PDFs. And you can also search for answers within a specific PDF or across all stored PDFs.

Requested parameter:

→ Here you can ask the question whichever user wants. And also select the LLM model according to your choice.



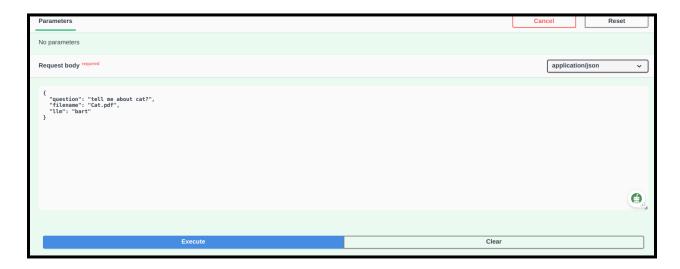
• Response:

→ After successfully executing the API, if the question is related to the uploaded pdf content and gentated answer related to the uploaded pdf, you get an answer successfully; if not, throw an error message.



• Requested parameter:

→ Now if the user wants to search for an answer from a specific pdf, add the pdf name on filename.



Response :

→ After successfully executing the API, if the question is related to the specific mention uploaded pdf, you get an answer successfully; if not, throw an error message.

