

Brance

Time Spent: 3 hours

Problem

Approach

Solution

Bash

API Endpoints

Voice

Evaluation Metrics

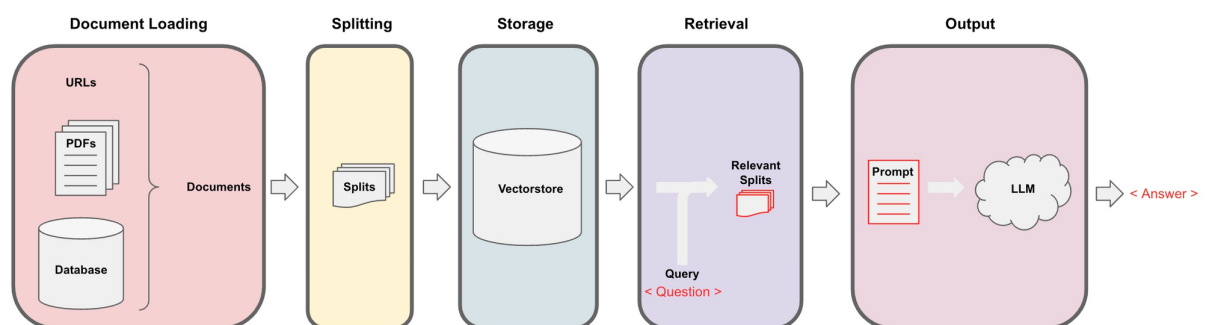
Future Scope

Time Spent: 3 hours

Problem

Build chatbot which receives user question as input and will need to output the answer based on the knowledge in the document provided

Approach



Source: https://python.langchain.com/docs/use_cases/question_answering/

Solution

Bash

```
git clone https://github.com/har33sh/documentQChatBot- cd
documentQChatBot- virtualenv venv source venv/bin/activate pip
install -r requirements.txt python main.py
```

```
(venv) hareesh@Hareeshs-MacBook-Air: ~/PycharmProjects/documentQChatBot- $ main $ python main.py
/Users/hareesh/PycharmProjects/documentQChatBot/venv/lib/python3.9/site-packages/urllib3/_init_.py:34: NotOpenSSLWarning: urllib3 v2.0 only supports OpenSSL 1.1.1+, currently the 'ssl' module is compiled with 'LibreSSL 2.8.3'. See: https://github.com/urllib3/urllib3/issues/3020
warnings.warn(
Please enter your query
How to get pan card
To get a PAN card, you can follow these steps:

1. If you have an Aadhaar card, you can get your PAN card through your Aadhaar card in 10 minutes. No other documents are required for this process.

2. If you don't have an Aadhaar card, you will need to gather the following documents:
   - Passport (Any Country) / OCI Card
   - Passport Size Photograph
   - Overseas address proof with zip code (Supporting documents - Indian NRO/NRE Account statement or Overseas bank statement or Utility bill)

3. Visit the ABC app or website.

4. Navigate to Services > NRI Pan Card > Apply New PAN.

5. Select the required form of PAN card and proceed with the payment.

6. Our team will get in touch with you to ask for the necessary documents mentioned above.

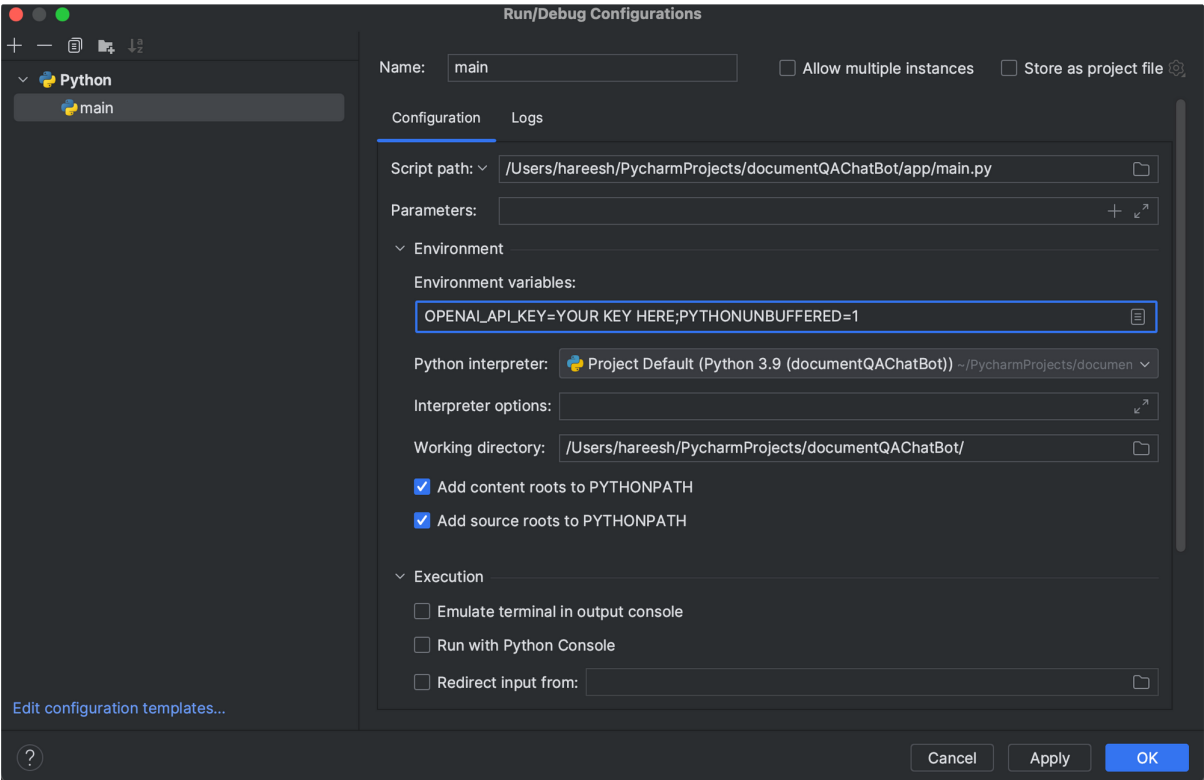
7. Once you provide the required documents, your PAN card application will be processed.

8. If you have an Aadhaar card, you will receive an e-PAN card, which is a digital version of your PAN card. If you don't have an Aadhaar card, you will receive a physical PAN card by post to your registered address.

Please note that the cost of a new PAN card may vary, and it is advisable to check the official website or app for the most accurate information.
```

API Endpoints

To run FastAPI application, ensure the path, env variables, and working directory are set properly



Voice

Sample voice present in tests folder

Request body required

multipart/form-data

audio required

string(\$binary)

Choose file

WhatsApp Ptt 2023-07-29 at 12.02.34 PM.ogg

Execute

Clear

Responses

Curl

curl -X 'POST' \n'http://0.0.0.0:8000/voice' \n-H 'accept: application/json' \n-H 'Content-Type: multipart/form-data' \n-F 'audio=@WhatsApp Ptt 2023-07-29 at 12.02.34 PM.ogg;type=audio/ogg'

Request URL

http://0.0.0.0:8000/voice

Server response

Code	Details
200	<div>Response body</div> <div>"To get a PAN card, you can follow these steps:\n\n1. If you have an Aadhaar card, you can get your PAN card through your Aadhaar card in just 10 minutes. No other documents are required for this process.\n\n2. If you don't have an Aadhaar card, you will need the following documents:\n - Passport (Any Country) / OCI Card\n - Passport Size Photograph\n - Overseas address proof with zip code (Supporting documents - Indian NRO/NRE Account statement or Overseas bank statement or Utility bill)\n\n3. Visit the ABC app or website.\n4. Navigate to Services > NRI Pan Card > Apply New PAN.\n5. Select the required form of PAN card and proceed with the payment.\n6. Our team will get in touch with you to ask for the necessary documents mentioned above.\n7. Once the payment is made and the documents are submitted, the PAN card will be issued approximately 3 weeks.\n\nPlease note that the cost of a new PAN card may vary, and it is best to check with the ABC app or website for the current fees."</div> <div>99%</div>

Evaluation Metrics

Added Evaluation metric in tests/ *Using Reference Labels*

source: <https://python.langchain.com/docs/guides/evaluation/string/>

Future Scope

Add/Redefine accuracy metrics

Explore alternative approaches for the blocks above and see how the metrics change

Proactively ask questions