ChatBot like ChatGPT for multiple websites using Langchain

Installation

In [ ]:
```
!pip install langchain openai
```

Setup OpenAI API Key (platform.openai.com => View keys => Create a new secret key)

In [ ]:
```
import os
from getpass import getpass
```

In [ ]:
```
os.environ['OPENAI_API_KEY'] = getpass("Enter your key:")
```

```
Enter your key:··········
```

Create a list of urls for managing the complete site scraping into your local vector database like Chroma

In [ ]:
```
URLS = [
    'https://en.wikipedia.org/wiki/Large_language_model',
    'https://en.wikipedia.org/wiki/LangChain',
    'https://en.wikipedia.org/wiki/Prompt_engineering#Retrieval
    'https://techcrunch.com/2023/06/06/llamaindex-adds-private-
    'https://www.geeksforgeeks.org/develop-an-llm-application-u
]
```

Loaders- WebBaseLoader

In [ ]:
```
from langchain.document_loaders import WebBaseLoader
```

In [ ]:
```
loader = WebBaseLoader(URLS)
```

Chunking- CharacterTextSplitter

In [ ]:
```
from langchain.text_splitter import CharacterTextSplitter
```

In [ ]:
```
data = loader.load()
```

In [ ]:
```
text_splitter = CharacterTextSplitter(chunk_size=1000, chunk_ov
```

In [ ]:
```
website_data = text_splitter.split_documents(data)
```

Collecting tiktoken - Installation

In [ ]:
```
!pip install tiktoken
```

Embeddings

In [ ]:
```
from langchain.embeddings import OpenAIEmbeddings
```

In [ ]:
```
embeddings = OpenAIEmbeddings()
```

Vector Database - Installation of Chroma

In [ ]:
```
!pip install chromadb
```

In [ ]:
```
from langchain.vectorstores import Chroma
```

In [ ]:
```
vectordb = Chroma.from_documents(website_data,embeddings)
```

Large language model - CHat_models from langchain

In [ ]:
```
from langchain.chat_models import ChatOpenAI
```

In [ ]:
```
llm = ChatOpenAI(model="gpt-3.5-turbo-16k",temperature=0.0)
```

RetrievalQA

In [ ]:
```
from langchain.chains import RetrievalQA
```

In [ ]:
```
rag_chain = RetrievalQA.from_chain_type(llm=llm,chain_type="stu
```

Bring the user and tell him to write the prompt

In [ ]:
```
prompt = "what is RAG?" #query
```

In [ ]:
```
response = rag_chain.run(prompt)
```

In [ ]:
```
print(response)
```