```
import os
GH
      import streamlit as st
      from llama_index import GPTSimpleVectorIndex, SimpleDirectoryReader
      # NOTE: for local testing only, do NOT deploy with your key hardcoded
      # to use this for yourself, create a file called .streamlit/secrets.toml with your api
      key
      # Learn more about Streamlit on the docs: https://docs.streamlit.io/
      os.environ["OPENAI_API_KEY"] = st.secrets["openai_api_key"]
```

index_name = "./index.json"

```
documents_folder = "./documents"
@st.cache_resource
def initialize_index(index_name, documents_folder):
  if os.path.exists(index_name):
    index = GPTSimpleVectorIndex.load_from_disk(index_name)
  else:
    documents = SimpleDirectoryReader(documents_folder).load_data()
    index = GPTSimpleVectorIndex(documents)
    index.save_to_disk(index_name)
  return index
@st.cache_data(max_entries=200, persist=True)
def query_index(_index, query_text):
  response = _index.query(query_text)
  return str(response)
```

This should be cached and only fully runs once

st.title(" 🦙 My Mind Bangun 🐂 ")

text = st.text_input("Query text:")

st.header("Welcome to My Mind Bangun")

if st.button("Run Query") and text is not None:

response = query_index(index, text)

index = initialize_index(index_name, documents_folder)

st.text("Please enter a query about My Mind Bangun")

st.markdown(response) tambahkan fiture mnyimpan history di local dan dapat di tampilkan di csv ketika di klik

Sure, here's an updated version of the code that includes a feature to save the



```
query history to a CSV file:
                                                                    Copy code
  python
  import os
  import csv
  import streamlit as st
  from llama_index import GPTSimpleVectorIndex, SimpleDirectoryReader
 # NOTE: for local testing only, do NOT deploy with your key hardcoded
 # to use this for yourself, create a file called .streamlit/secrets.toml wi
 # Learn more about Streamlit on the docs: https://docs.streamlit.io/
  os.environ["OPENAI_API_KEY"] = st.secrets["openai_api_key"]
  index_name = "./index.json"
  documents_folder = "./documents"
 history_file = "./query_history.csv"
 @st.cache_resource
  def initialize_index(index_name, documents_folder):
      if os.path.exists(index_name):
          index = GPTSimpleVectorIndex.load_from_disk(index_name)
      else:
          documents = SimpleDirectoryReader(documents_folder).load_data()
          index = GPTSimpleVectorIndex(documents)
          index.save to disk(index name)
      return index
 @st.cache_data(max_entries=200, persist=True)
  def query_index(_index, query_text):
      response = _index.query(query_text)
      return str(response)
 # This should be cached and only fully runs once
  index = initialize_index(index_name, documents_folder)
 # Initialize the history file with a header row if it doesn't exist
  if not os.path.exists(history_file):
      with open(history_file, mode="w", newline="") as f:
          writer = csv.writer(f)
          writer.writerow(["Query", "Response"])
  st.title(" \ my Mind Bangun \ m")
  st.header("Welcome to My Mind Bangun")
  st.text("Please enter a query about My Mind Bangun")
 text = st.text_input("Query text:")
  if st.button("Run Query") and text is not None:
      response = query index(index, text)
      st.markdown(response)
      # Save the query and response to the history file
      with open(history_file, mode="a", newline="") as f:
          writer = csv.writer(f)
          writer.writerow([text, response])
  # Show the query history if the user clicks the "Show History" button
  if st.button("Show History"):
```

reader = csv.reader(f) rows = list(reader) st.table(rows) This code creates a new variable called `history_file`, which is the path to the

CSV file where the query history will be stored. When the user clicks the "Run

with open(history_file, mode="r") as f:

its response to the history file using the 'csv' module. Finally, the code adds a new button called "Show History". When the user clicks this button, the code reads the query history from the CSV file and displays it in a

Query" button and a query is successfully executed, the code saves the query and

`streamlit` table.