**Steps to Create and Run the LLM-GenAI Research Tool**

**1. Set Up the Development Environment**

Clone the Repository:

git clone https://github.com/yourusername/LLM-GenAI-Research-Tool.git

cd LLM-GenAI-Research-Tool

**2. Install Required Packages**

Install the necessary Python packages:

pip install streamlit langchain openai faiss-cpu unstructured nltk

**3. Set Up OpenAI API Key**

Create a file named openapi\_key.py in the project root directory:

# openapi\_key.py

api\_key = "your\_openai\_api\_key\_here"

**4. Run the Streamlit Application**

streamlit run main.py

**5. Usage**

Input URLs: Enter up to three URLs of news articles in the sidebar.

Process Data: Click the "Process URLs" button to load, split, and embed the article content.

Ask Questions: Use the input field to ask questions about the content. The app will provide answers and list sources.

**Additional Notes**

Security Warning: The project uses FAISS vector storage, which involves serializing and deserializing data. Ensure you trust the source when reloading serialized files.

Testing: Test the application in a local environment before deploying or sharing it.