Assignment 3

Blockchain Technologies 2

Build an MVP of AI Assistant in Constitution of Republic of Kazakhstan

- In this Assignment you need to build Minimum viable product of AI Assistant which can answer all the questions related to Constitution of Republic of Kazakhstan
- Use this link to get the English version of the Constitution: https://www.akorda.kz/en/constitution-of-the-republic-of-kazakhstan-50912

Tasks

- In this assignment you need to implement
  - Enable chat functionality using for example streamlit
  - Integrate one of the LLMs: Ollama/Groq/Gemini/OpenAI
  - Should be to store all the queries and answers in the vector store:
  - Use one of the database as vector store: mongodb/chromadb
  - Add functionality to attach files
  - It should have a functionality to attach files one by one or multiple files at the same time
  - Once documents are loaded, User should be able to ask question about content from these uploaded documents
  - When user asks questions related to these documents it should be able to provide answers within the context of the documents

Project Repository

Source Code

README.md

- Title
- Usage
  - Put here demo screenshots (png or gif)
- Examples

LICENSE

- For example: https://github.com/OpenZeppelin/openzeppelin-contracts/blob/master/LICENSE

Create repository in github, push it into the github and submit the link to the repository into the moodle.
Assignment will not be accepted if Repository and README are not submitted and structured properly!!!

Grading

- **Submit in groups:**
  - **Group can have 2,3 person:**
- **Grading Policy:**
  - **All the features: 50**
  - **Defense: 40 points**
  - **README: 10 points**

References

1. https://medium.com/@arunpatidar26/rag-chromadb-ollama-python-guide-for-beginners-30857499d0a0 - RAG with ChromaDB and Ollama
2. https://docs.streamlit.io/develop/api-reference/widgets/st.file_uploader - Attach file functionality in Streamlit
3. https://python.langchain.com/v0.1/docs/modules/data_connection/document_transformers/ -Text Splitter