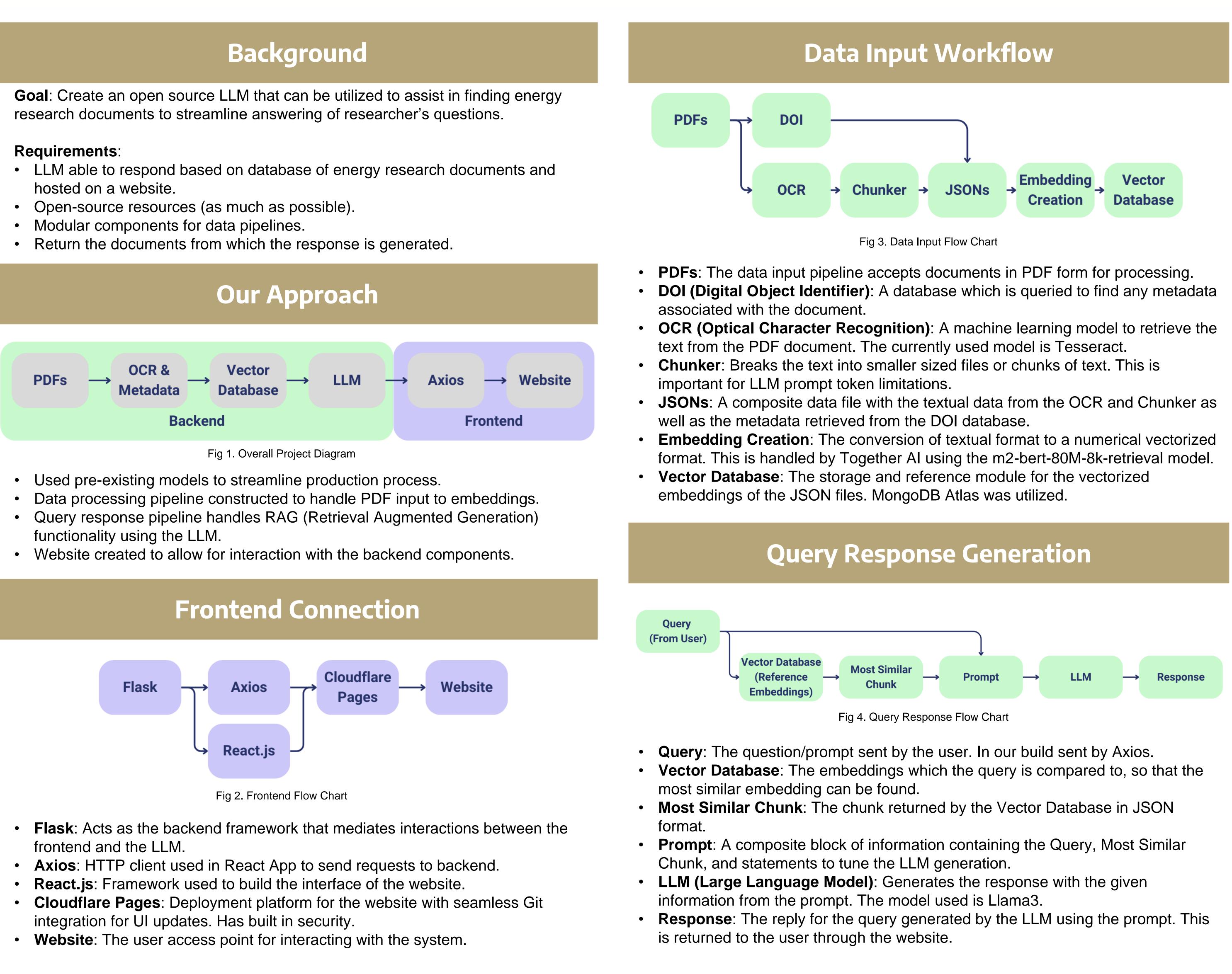
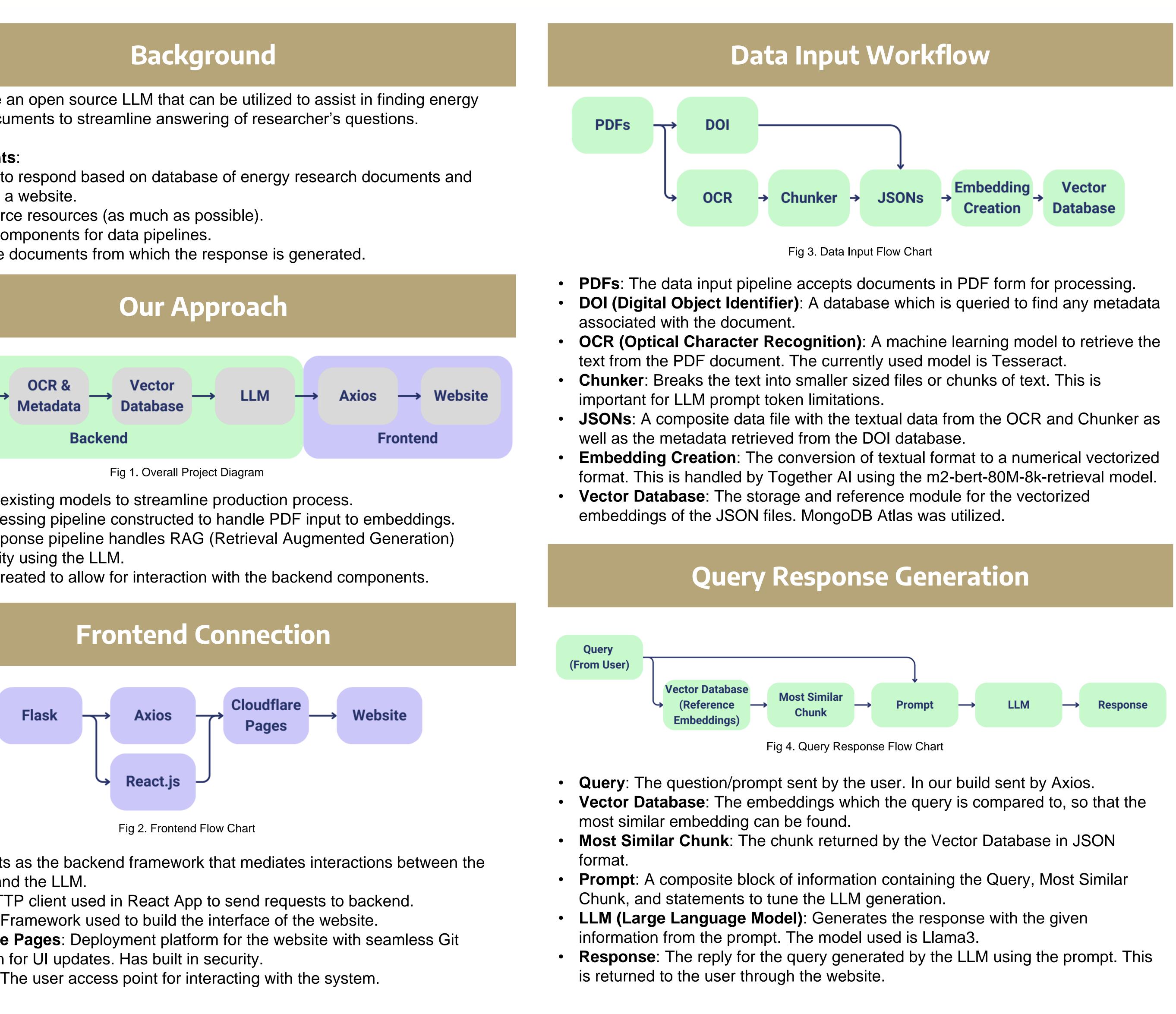


Efficient Energy Research: Building an Advanced Language Model and Interface

- hosted on a website.











ADVISERS: DHAHA NUR, RAJESH SUBRAMANYAN, ROSE JOHNSON **SPONSOR:** ALASKA CENTER FOR ENERGY AND POWER



There are a few different ways in which the project could be further developed.

- more seamless response for queries.

Current Build & References



Github Repo

We would like to sincerely thank our Industry Mentor, Dhaha Nur, as well as our Faculty Mentor, Rajesh Subramanyan for their guidance during this project. Also, our thanks to ACEP and the University of Washington for the opportunity to work on this project. Last but not least, to our TA Mentor, Rose Johnson for keeping us on track.





Website

Future Work

• Formalized Testing: A formalized method of testing the capabilities of the chatbot's recall and generation capabilities could be developed. The LLM is already an established model, so the testing would cover our application of it. **Streaming Response:** LLMs typically take a while to generate and send the full response, so streaming the response in chunks can be done to provide a

Saved Chat History: Saving chat for different users would be useful for picking up where researcher left off or for referencing past queries.



References