

Semantic Web Project Milestone 1

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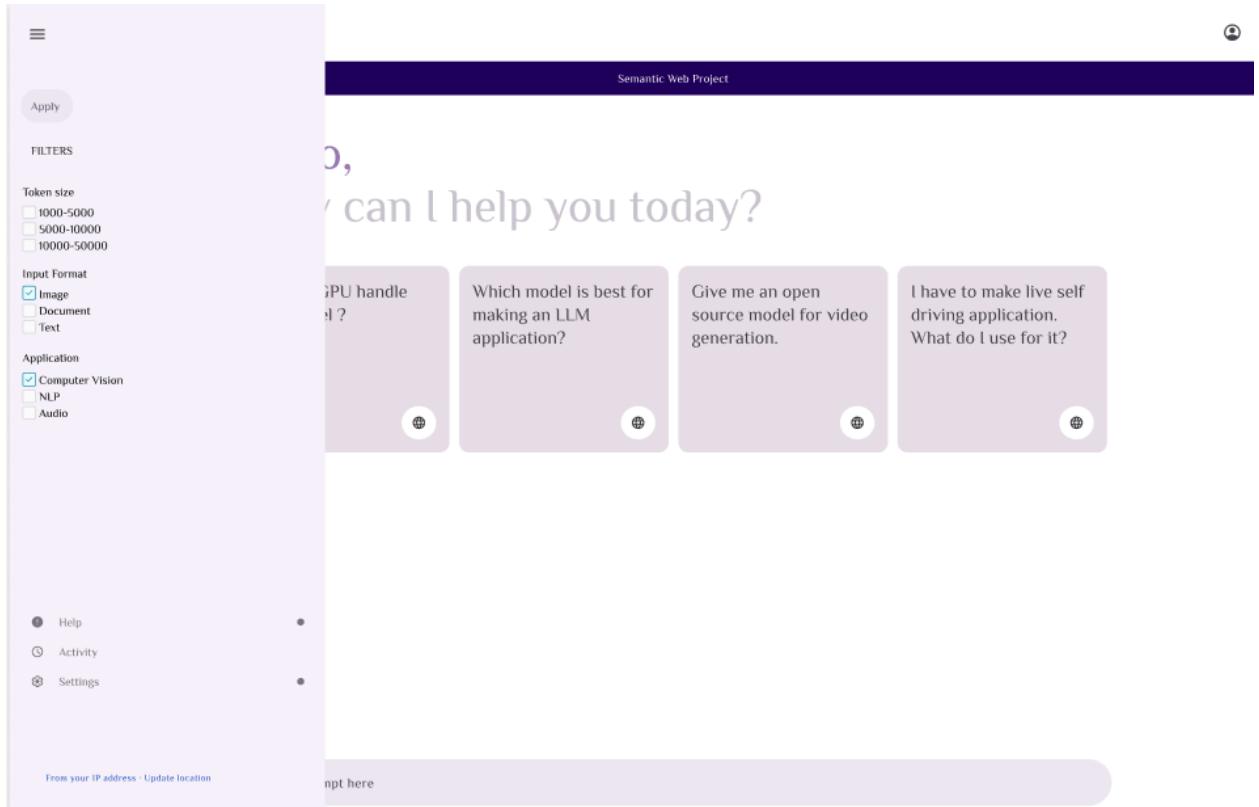
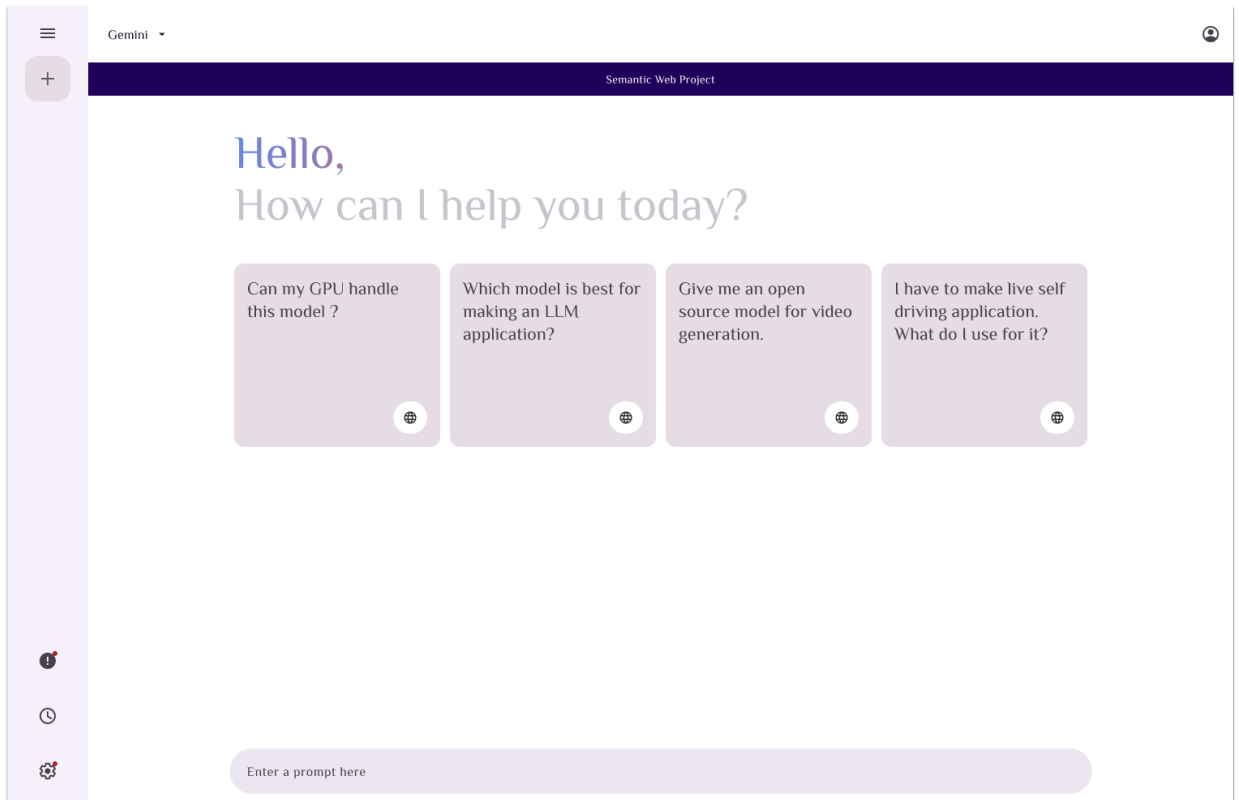
Deliverables:

1. Code

We have made use of the Llama-index and used huggingface to load an LLM. The LLM used here is "Mistral-7B-Instruct-v0.2". Further, We have used Nebula Graph to build and store the Knowledge graph. We used the llama-index library to initialize the graph with the wikipedia page as a base. This Graph can be queried using nGQL(nebula graph query language). Next steps forward will be adding to the knowledge graph in order to fine-tune it for our intents and purposes.

2. UI

We have made a basic front-end website prototype of the project on Figma. Our overall structure will remain the same but we can make some changes along the way.

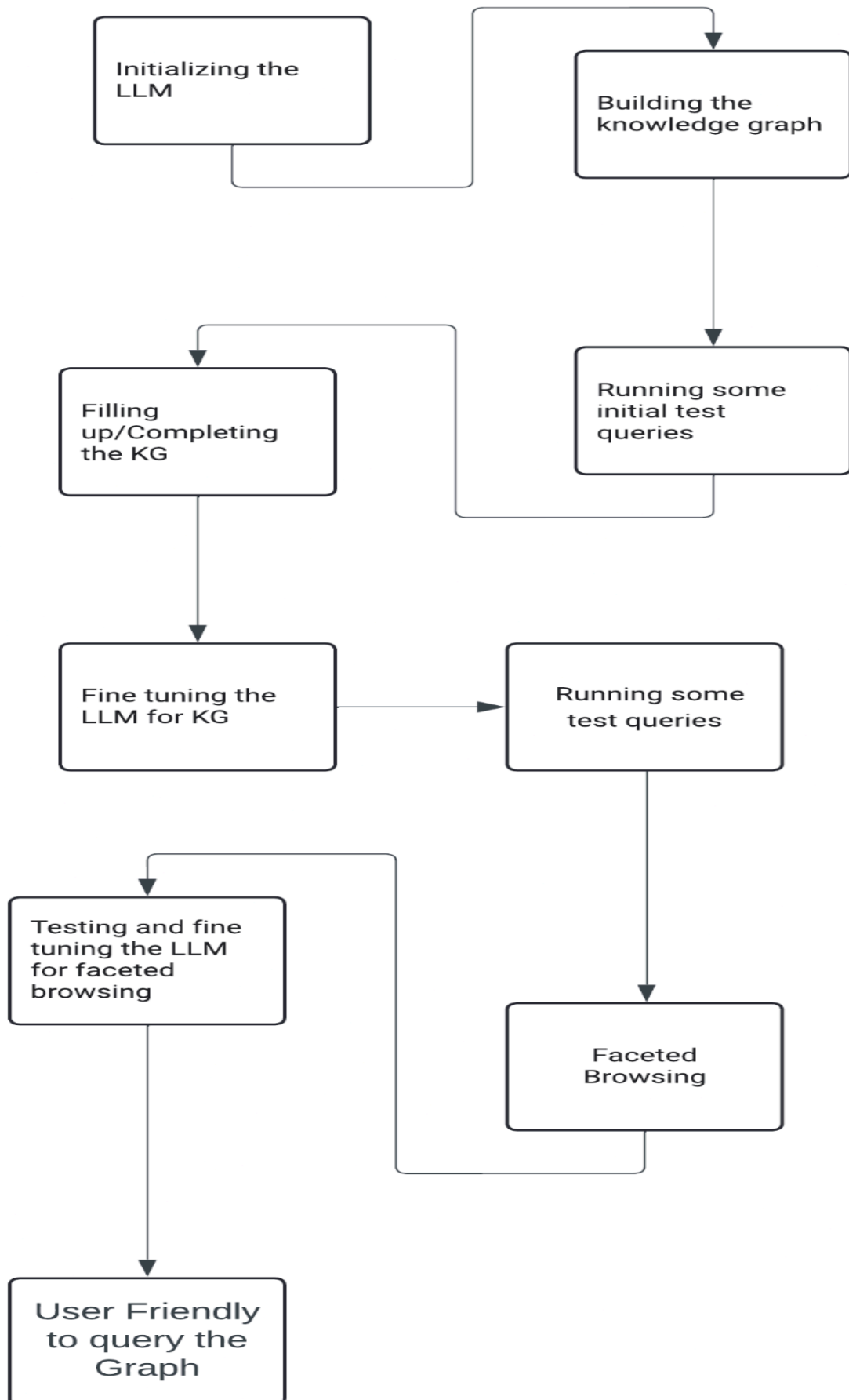


3. Faceted Search - Facets

We have decided on a few facets and classifications like Application, number of tokens, number of parameters/weights, etc. We will add more information based on our research and knowledge graph.

4. Flowchart

We made flowchart for our process to finetune the LLM for the KG on Lucid Chart.



5. Domain Research

We are still researching information about AI models to make our graph and will continue to look up more information to make the knowledge graph as complete as possible.

6. Task Distribution:

- 1) Saksham Pandey-** Code:LLM loading and KG building.
- 2) Nitesh Garg-** Making UI and domain research.
- 3) Rishab Kumar-** Made the flowchart, assisted in UI, helped in deciding facets.