<u>**Project Phase-1 Report**</u>

Project: Development of Agentic AI system on a local server the Agent must an LLM which does not require internet access such as ollama

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<u>**Phase-1 Completed**</u>

<u>**Server and model Installation**</u>

Ollama server is downloaded and installed.

Llama-3 8Billion model is downloaded from Ollama using CMD.

Model answering Properly Without internet in CMD. (ollama run llama3)

<u>**Front-End**</u>

A simple front end is designed using JavaScript, CSS and HTML.

In JavaScript:

- The code uses the Ollama API end point at **http://localhost:11434/api/generate**. This is the default local address where Ollama serves its API.

- When the user sends a message, the **sendMessage()** function is triggered. The user's input is collected from userInput.value and displayed in the chat.
- The frontend waits for the response using **await response.json()**. Once the response is received, it is parsed as JSON
- The reply is then displayed in the chat using **addMessage(data.response, 'bot').**

- Ollama server needs to be started before starting chatting. It is started using CMD (ollama serve).

- If API request Fails or Ollama server is not started then a default message is displayed **"**Sorry, I'm having trouble connecting to the AI server.**"**