

Midterm Activity – Social Coding Midterm Project

Social Coding Selection

Select a social coding project application for your team from the below options:

- Option 1: Feature enhancements of the Lab 4.9.2 code by adding user-friendly features to the MapQuest REST API [Level of difficulty: +++]
- Option 2: Adapting the Lab 4.9.2 python framework to integrate GPT-3/GPT-4 REST API [Level of difficulty: ++++]

What were the reasons your team selected this option?

We chose to implement OpenAI's GPT-3 API because it's currently one of the most widely-used language models in the field of AI. Its popularity suggests that it has the potential to transform the way we use and interact with technology, particularly when it comes to language processing and analysis. By implementing this API, we can contribute to the advancement of AI technology and help provide access to high-quality language processing for individuals, businesses, and organizations.

Describe your team's project application and its deliverables. What are the specific objectives of this application?

The objective of this program is to accommodate people's need for advanced language processing and image generation capabilities offered by OpenAI's GPT-3 model.

By implementing the GPT-3 API, the program aims to provide users with efficient communication tools such as chat completion, language translation, and text summarization. GPT-3's impressive ability to generate realistic images can be utilized to create digital content in areas like design, gaming, and advertising. The application also allows users to change the size of the answer and

switch between chat and image modes during the conversation. Additionally, the application stores the conversation context in a history array to provide context to the AI language model for better responses. Overall, the program's objective is to provide access to the latest AI technology.

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Record your team member roles and skillsets

Team member	Role/Knowledge/Skillset
Florian Vanier	Developer, write the code and search information about the api.
Irmuun	Developer. Testing OpenAi and worked with tokens
Andika Y	Developer. Explore the possibility to call the api using REST and SDK that's provided by OpenAI
Malika	Developer. Improved user experience in the chat box.
Diyora	Developer. Worked with functions in code, checked the progress and hosted meetings

Strategy/Project Plan

Provide a brief description of your team's strategy for completing this project.

One of the common approaches for our team is that we divide the work according to the area of expertise or

interests of each member. For example, one team member is responsible for setting up authentication and API

calls, while others are responsible for developing chatbot logic or creating images. Another approach is for our

team to work together on a shared code repository using tools like Git and GitHub to manage version control

and coordinate changes. This allowed us to work on one codebase at the same time, while also tracking and

reviewing changes made by others. We also used communication tools such as Zoom and Google Meet to

stay in touch and discuss progress , as well as hold regular meetings to check on the status of the project and

resolve any issues that come up. During our meetings, we started with a list of requirements and user stories,

and then hold brainstorming sessions to generate ideas and features to meet those requirements. Overall,

effective collaboration helped us successfully finish the project.

Using GitHub for Collaboration

What is the link to your GitHub repository?

<https://github.com/Exchangers12/Midterm>

Describe how GitHub was used to:

- a. Create branches (in the context of this project)

We create a branch where we start the code and implement the api and then create other

branches which start from this one.

- b. Add team members (and their branches/commits)

Florian work on the branch call CreateChat

Diyora work on the branch call Diyora

Andika work on the branch call dika-api-chat

Irmuun work on the branch call irmuun

Malika work on the branch call Malika

- c. Mention pull requests, code review, merge, etc. (in the context of this project)

We did a code review between us and when everyone valid the code we did a pull request to merge the code from CreateChat to main

Final Deliverables

Presentation

Create a presentation about the project you selected. Your presentation should include:

- Information about your application, covering what features your team included
- The reasons that your team decided on these specific features in your application
- Application code including comments and documentation. Your comments and documentation should be sufficient for any other team to be able to continue the project if required. Another team should be able to understand the application, your features and how to continue with the project
- Demonstration of the application
- List of future enhancements (backlog)
- Reflection points – what issues have you faced while working on this activity, how did you find solutions, what have you learned, etc.