

## 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?

The step by step lab made it really easy to understanding the concrete implementation of the theoretical knowledge we had precisouly acquired during class. To us this project was a challenge: after following a well detail lab guide we had the possibility to improve our work by ourselves.

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

Our project is the feature enhancements of the MapQuest API from Lab 4.9.2.

The objective is to obtain a clear and easy-to-use application. We also wanted to provide the basic options that we use in our daily lives such as being able to choose whether we want to go by car or by foot. Some additional features we thought of were convenient-related features, such as printing the map showing the route. This deliverable should be easy-to-use and to understand for everyone.

Record your team member roles and skillsets

Team member	Role/Knowledge/Skillset
Jean-Charles(12224870)	Team Leader, Skills: C, C++, python, html, css, ocaml, sql
Loup (12224867)	Team recorder, skills: python, c, c++, html/css,
Cedric (12224918)	Skills: c/c++/c#, html/css, php/mysql, python
Maelie (12224987)	skills: c, c++, python,
William (12224965)	skills: python, c, c++, html/css,

### Strategy/Project Plan

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

First we all met for a brainstorming on our chosen subject. Discussing what we thought it meant but also talking about the lab, what we liked, did we find it hard...

After that we started throwing ideas to make the API better and questioning our use of navigation applications. What feature do we really use? And also making sure that it would be user friendly.

In a second time we reviewed each idea and saved it depending on whether or not we thought it was pertinent for our project but also on the possibility of implementation.

And in a third time we splinted work. we decided on two ways of deciding who would work on what, first what were the concrete objectives, what needs to be done? and how much work can one person do? We also splitted depending on each person's personal choice. We believe that as much as achieving the asked task is mandatory as a professional, enjoying what you do is also important. Indeed keeping the interest and motivation of each team member is the best way to ensure a quality and well made project.

## Using GitHub for Collaboration

What is the link to your GitHub repository?

<https://github.com/jcmerle/MapQuest-REST-API>

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Describe how GitHub was used to:

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

Each member was working at the same time on a same-base code file. After the task

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distribution each member edited the code and added the improved code on their branch.

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

Each member worked individually and then added commits and branches through the github

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web interface. It is possible to see and analyze it when clicking on the github link provided above.

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Furthermore, on the github each member filled a to-do list showing what they each worked on

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and the evolution of their work.

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

The code review was done by each member, when we considered our task finished we would push our code

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and ask other members to double check it and see if the code was clean and well explained. Once everything

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was okay, we merged the files together using the merge command.

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## 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.