

## MEETING MINUTES

### Project: *A Map Management Platform for Self-Driving Cars*

**Date of Meeting:** 06/04/2021

**Location:** AIML G.04 Meeting Room

**Chair:** Jonhatan Cotes Calderon

**Time of Meeting:** 10 am - 11 am

**Minutes Prepared By:** Nhu Quynh Hoa

#### 1. Purpose of Meeting

The fifth meeting for the Master of Computing & Innovation Project was held to present the progress produced by the team until week 5 and further discuss project requirements.

#### 2. Attendance at Meeting

Client: Anh-Dzung Doan, Yasir Latif

Project team: Jonhatan Cotes Calderon, Huu Thanh Nguyen, Aryaman Dhawan, Nhu Quynh Hoa

#### 3. Meeting Notes, Decisions, Issues

- Jonhatan presented the implemented viewing direction algorithm.
- Aryaman presented the k-Nearest Neighbors (kNN) algorithm to cluster images near a particular point.
- Dzung commented on the kNN algorithm that the complexity of this algorithm was  $O(n)$  for 1 point and  $O(n^2)$  for all the points. Therefore, the team had to come up with a better algorithm for better performance e.g.  $O(\log n)$  using Tree.
- Dzung asked the team to present the data organized with Tree -  $O(\log n)$  complexity in the next meeting.
- Jonhatan presented the draft class diagram.
- Yasir asked the team to add a relationship between Region and Sequence.
- Dzung commented that the team should separate the database structure and class diagram and remove the cycles from the diagram to make it clearer.
- Jonhatan presented the new functionalities of the frontend: toggle different layers and display a location when entering the coordinates.
- Dzung requested the team to add a function to the frontend in which it should show all the images clustered from the backend's algorithm when a point was selected on the map.
- Aryaman asked for a channel to raise questions in case there was any doubt during the implementation of the algorithm.
- Yasir and Dzung recommended the team to use Discord to ask questions.
- Quynh asked for the meeting schedule during the coming 2-week mid-term break.
- The client and the team agreed to have the next two meetings on Mondays as usual but due to the university shutdown on the second week, the second meeting would be scheduled online via Zoom instead.

**4. Action Items**

<i>Action</i>	<i>Assigned to</i>	<i>Due Date</i>	<i>Status</i>
Reviewing the meeting minutes	Jonhatan Cotes Calderon	06/04/2021	Pending
Uploading the finalised meeting minutes to GitHub	Nhu Quynh Hoa	07/04/2021	Pending
Sending the finalised meeting minutes to all attendants	Nhu Quynh Hoa	07/04/2021	Pending
Developing an algorithm for clustering images near a certain location and having the same viewing direction	Aryaman Dhawan	11/04/2021	Pending
Revising the class diagram	Nhu Quynh Hoa	11/04/2021	Pending
Researching on how to display an image when the user hovers over a point on the map	Huu Thanh Nguyen	11/04/2021	Pending

**5. Next Meeting**

Date:	12/04/2021	Time:	10 am - 11 am	Location:	AIML 1.30 Meeting Room
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