MEETING MINUTES

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

Date of Meeting: 27/04/2021 **Location:** AIML 1.30 Meeting Room **Chair:** Huu Thanh Nguyen

Time of Meeting: 10 am - 11 am **Minutes Prepared By:** Aryaman Dhawan

1. Purpose of Meeting

The meeting for the Master of Computing & Innovation Project was held to present the project progress and discuss the next features to implement in the web app.

2. Attendance at Meeting

Client: Anh-Dzung Doan

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

3. Meeting Notes, Decisions, Issues

The team presented the following:

- Presented the integration of frontend with backend using Django REST Framework and discussed security issues pertaining to other approaches.
- Presented a faster way to download images from Mapillary using excel-parser-processor .
- Gave a demo of the product at current stage with implemented functionality of displaying Nearest neighbors of query coordinate on frontend stored in database using updated nearest neighbour algorithm.
- Discussed proposed implementation for pan and zoom feature on map using bounding box to render sequences and coordinates at different zoom levels for efficient and fast rendering on map due to high number of data points.
- Finalised and approved replacing of old algorithm to search nearest neighbours with new and a more efficient Quadtree based algorithm

The client requested the following:

- Display the nearest neighbours of the query point in different color coding and a distinctive colour encoding for the sequence it belongs to.
- Nearest neighbour algorithm should be updated to remove nearest neighbour points from the sequence query coordinate belongs to
- Remove polygon layer from frontend layers.
- Add new layers to represent data collected from mapillary by implementing various spatial distribution layers from deck.gl.
- Add filter to query and display data collected between user defined time intervals.
- Create a new Github repository for providing access to clients, namely Dzung and Yasir for future development on the project.
- Schedule automatic downloading and updation of new sequences periodically from Mapillary.
- Focus on documentation with inline comments in code and self explanatory notes for all methods implemented

4. Action Items

Action	*Assigned to*	*Due Date*	*Status*	*Followed up by*
Reviewing the meeting minutes	Jonhatan Cotes Calderon	28/04/2021	Pending	Nhu Quynh Hoa
Uploading the finalised meeting minutes to GitHub	Aryaman Dhawan	28/04/2021	Pending	Huu Thanh Nguyen
Sending the finalised meeting minutes to all attendants	Aryaman Dhawan	27/04/2021	Pending	Nhu Quynh Hoa
Present new colour encoding for frontend query point, its nearest neighbours and its sequence.	Huu Thanh Nguyen	29/04/2021	In progress	Aryaman Dhawan
Add new spatial distribution layers on frontend and remove polygon layer	Jonhatan Cotes Calderon	29/04/2021	In progress	Huu Thanh Nguyen
Update the nearest neighbors algorithm to Quadtree based algorithm and remove nearest neighbours from same sequence query point belongs to	Aryaman Dhawan	29/04/2021	In progress	Jonhatan Cotes Calderon
Create a new Github repository with access rights to clients	Team	02/05/2021	In progress	Team
Schedule automatic downloading and updation of new sequences periodically from Mapillary	Team	02/05/2021	In progress	Team
Document code inline and explanation for all methods and flow of control through the web application	Team	02/05/2021	In progress	Team

5. Next Meeting

Date:	03/05/2021	Time:	10:00 AM	Location:	*Zoom Meeting*