sdmay19-18: Real time Route Optimization
Week 1 Report
August 30 - September 12

Team Members

Junjie Wen — *Core Software/Algorithm Developer*
Zhanghao Wen — *Product Manager/Tester*
Yuhang Xie — *Backend Developer*
Xinhe Yang — *Frontend Developer*
Tianhao Zhao — *Communication Leader*

Summary of Progress this Report

We built up connections with adviser and client from Henderson Products Inc.
We learned some of details and purpose of our project. More clarifications will be given through further discussions and steps by steps progress.

Past Week Accomplishments

This project is a follow-up of previous project which was finished last semester. For better understanding, we studied their project report and demo documents given from advisor.
We briefly explored geographic and population information of north part of America especially rural area, as well as highway road conditions.
We researched why this project is necessary, why real-time information transmission is important, and how it can reduce time and financial cost during operation.
We also figured out that sensor equipment was implemented and ready to use. Data is created by sensor and it is sent to the database through AWS server.
We contacted client and get login information and key to AWS server to study what is in there.
During group meeting, we discussed how to divided different areas for fleets of truck during snow operation, and how to deal with different data type or format and how data is stored in the database since it is not given yet, and how can we analyze those data to implement an algorithm to achieve real-time re-route.

Pending Issues

We still have unclear goals and thoughts on this project, which we need further discussions with our client. We don't know who is the potential user for the project and what is the exact output for the project. We also don't know what kind of sensor data that is given for us.

Plans for Upcoming Reporting Period

9/13-9/24

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Junjie Wen	Learn about tools and platform	6	6
Zhanghao Wen	Research/Documentation/MoM Recorder	6	6

Yuhang Xie	Learn about tools and platform	6	6
Xinhe Yang	Analyze data/group project circumstances	6	6
Tianhao Zhao	Build up connections with client and adviser/Documentation	6	6

Gitlab Activity Summary

Nothing to report.