sdmay19-18: Real time Route Optimization

Report 7

April 5 - April 12

Team Members

Junjie Wen — Backend Developer; Data Analytics Lead

Zhanghao Wen — Web Developer

Yuhang Xie — Web Developer; UI Lead

Xinhe Yang — Web Developer

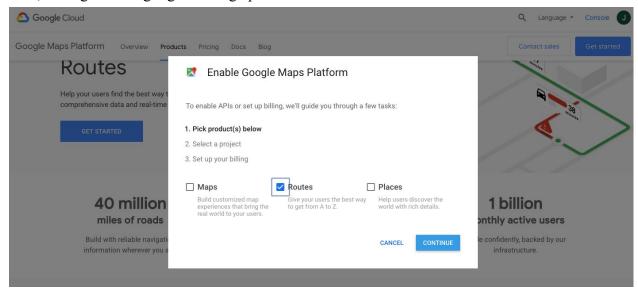
Tianhao Zhao — Communication Leader; Technical Writing

Summary of Progress this Report

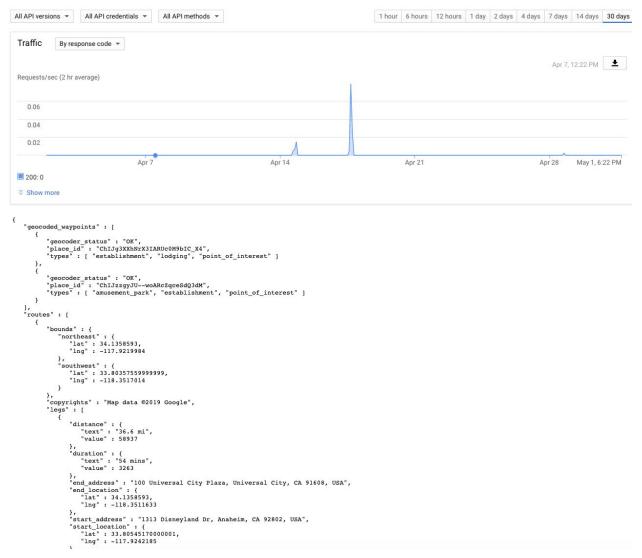
- After meeting with advisor and group meeting discussion, we decide to build a routing module for this project.
- Design the architecture for routing module.
- Implementation of the re-routing module for backend server.
- Build API for front end to do re-routing.

Past Week Accomplishments

First, we register the google routing api.



The Google routing api is free to use, as long as the cost it less than 200 dollars.



After this, we build backend module to use those the google route api, and also pick up the information that is useful to our project. Then, we return those useful information to front end.

Pending Issues

Need built unit tests.

Plans for Upcoming Reporting Period

• Implementation of the re-routing module for front page.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Junjie Wen	Implementation the backend part of the rerouting module	11	72
Zhanghao Wen	Implement Darksky weather API and show weather conditions given GPS	10	61
Yuhang Xie	Design a reroute logical to show up reroute truck's path on map	12	79
Xinhe Yang	Design an interface so that the front-end can get path data from server	11	75
Tianhao Zhao	Develop test details, planning final implementation details. Prepare poster and final documentation.	10	60