EE/CprE/SE 492 WEEKLY REPORT 5

3/12/20-4/2/2020

Group Number: 17

Project Title: Development of an App for Android Smart Phone for Pavement Roughness Estimation

Client/Advisor: Halil Ceylan

Team Members:

Tanner Dempsay – Communications Manager Joe Van Treeck – Data Manager

Christian Royston – Git Master Justin Kuennen – Web Master

Greg Starr – Logistics Manager Kyle Eckrich – Report Manager

Weekly Summary

Backend

- We are working on a standard preprocessing function for the raw acceleration data after the route is finished. Currently, we are looking at doing a bandpass via butterworth filter
- Added handler for route history data requests from frontend. While we are waiting on database connection for that, this function returns preset sample data.

Frontend

- Justin has finished the route history list and detail views and is implementing the network calls to request route data from server.
- o Greg and Christian are finishing settings screen for updates car configuration.

IRI calculation

 Joe is working on the preprocesses functions and comparing the data results from different filtering

Past Week Accomplishments

- Route history handling on server
- Route history UI and detail view finished on frontend

Individual Contributions

Team Member	<u>Contributions</u>	Hours This	<u>Cumulative</u>
		<u>Integration</u>	<u>Hours</u>
Tanner Dempsay	Route history fetch functions for server,		
	helped do preprocessing stuff for route	15	75
	data		
Christian Royston	Working on settings screen for frontend	13	66
Joe Van Treeck	Comparing data sets with different	14	74
	filtering types		
Justin Kuennen	Finished route list and detail UI screens	16	72

Kyle Eckrich	Working on route data read/write to database	11	75
Greg Starr	Cleaned up route record code on frontend	14	64

Plans for the Upcoming Week

- Working route history fetching on frontend
- Route data reading/writing to database
- Finished settings screen