EE/CprE/SE 492 WEEKLY REPORT 6

4/2/20-4/16/2020

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
    - Joe has been working with our advisors on updating our IRI calculation code with some of their recent observations
    - Kyle has completed route data reading and writing to the database and implemented helper functions for those on the server, he is currently debugging an error with sending multiple routes to the frontend
- Frontend
    - Tanner is revising our route record screen and added real-time route tracing on the map view.
    - Christian is testing the settings menu with the server response.
    - Justin is working to determine the devices mounted position programmatically so we can find the acceleration vector perpendicular to the road in any given position.
- Poster
    - Greg has started working on our final poster

Past Week Accomplishments

- Route tracing on record screen

- Route data read and write to database from server

Individual Contributions

Team Member	Contributions	Hours This Integration	Cumulative Hours
Tanner Dempsay	Cleaned up route record screen, updated some UI elements across app, added route tracing	17	92
Christian Royston	Testing setting screen	10	76
Joe Van Treeck	Updates IRI calculation program	12	86

Justin Kuennen	Working on position determination on frontend	16	88
Kyle Eckrich	Debugging route data fetch from server	12	87
Greg Starr	Starting poster	12	76

Plans for the Upcoming Week

- Finish poster
- Wrap up development on project
- Fix route data history fetching