

EE/CprE/SE 492 WEEKLY REPORT 1

1/20/2020-1/31/2020

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

- Team Meeting 1/23/20
 - We had our first team meeting of the semester. The major points included coordinating a basic “start commit” in the Gitlab for all of us to branch off of, and tasks for each of us to start working on (aligns with the project schedule in design document)
 - We are using issues created within Git and assigning them to separate branches, which will originate from latest commit on dev branch.
- Frontend
 - We are creating a new Android project to start our final application. Christian, Justin, and Greg are working on setting up with UI panels and starting some of the logic for these screens.
- IRI calculation
 - Joe has made a python program to read in csv’s of data collected from the prototype application and calculate the IRI value using the state space method referenced in the design document
- Backend
 - Tanner and Kyle are continuing work on the server and database to set up the read, write, and storage of all data that the frontend will collect.

Past Week Accomplishments

- Python program created for route data calculations
- User object and handling started on backend
- Git repo sync with members

Individual Contributions

<u>Team Member</u>	<u>Contributions</u>	<u>Hours This Integration</u>	<u>Cumulative Hours</u>
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Tanner Dempsay	Worked on creating user objects to use within server.	12	12
Christian Royston	Working on login screen for Android app.	10	10
Joe Van Treeck	Worked on python program for IRI calculation and testing it	15	15
Justin Kuennen	Working on menu navigation for Android app	10	10
Kyle Eckrich	Working on database setup and connection to Node server	10	10
Greg Starr	Starting work on new route record panel for final application	10	10

Plans for the Upcoming Week

- Update data handling on server to use python tool created by Joe.
- Complete login screen with connection to server/database.