EE/CprE/SE 491 WEEKLY REPORT 2

February 3rd, 2020 – February 16th, 2020

Group number: 12

Project title: Fleet Monitoring System

Client &/Advisor: Lofti Ben Othmane

Team Members/Role:

Lorenzo Chavarria – Front End

Marco Yepez – Embedded Device

Nicolas De La Cruz – Server & Database

Joe Herrera – Mobile Development

Bi-Weekly Summary

The team's objective for this report period was to get the team familiar with their primary work environment. The team was able to get familiar with DigitalOcean for web server REST API, made a team decision to use Android Studio with Java rather than Flutter, successfully query a vehicle for information using the PiCAN device, and researched different frameworks to decide which one will be used for the web application.

Individual contributions

Name	Contribution	Hours This Week	Hours Cumulative
Marco Yepez	Researched OBD II queries; Adjusted code using simulator; Ran code on vehicle	10	16
Joe Herrera	Researched about Flutter. Helped Marco run code on the vehicle. Initialize git and created a simple login xml app.	7	13
Nic De La Cruz	Create NodeJS server and MongoDB database	8	14
Lorenzo Chavarria	Researched different fleet monitoring systems. Create a start for the web application.	7	13

Pending issues

Marco

- Need to know specific queries to make with vehicle
- Refactor code

Joe

- Need a design to start actual development on the app.

Nicolas:

- Need to understand how to deploy REST API and how to have CAN embedded device communicate with API.

Lorenzo:

- Getting the design made for the web application.

Plans for Upcoming Week(s)

Marco

Refactor code to be follow design principles and more development friendly; Implement server connectivity

Joe

Create a design for the mobile app with my team so that I could start development on the app.

Nicolas

Deploy NodeJS REST API for entry data posting and retrieving. Develop project architecture and structure MongoDB models.

Lorenzo

Create a design for web application and start the implementation of a log-in page.