CEG4913 Weekly Progress Report

Week #: 3

SCRUM/Sprint No. 11 Group Number: 3

Date: September 25th, 2025

One line summary of progress:

Started development on database and CI pipeline

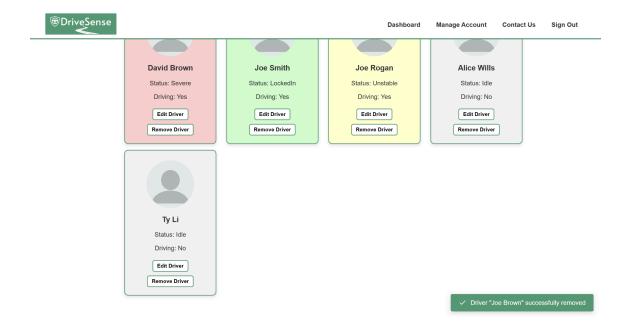
Work Completed

Hardware:

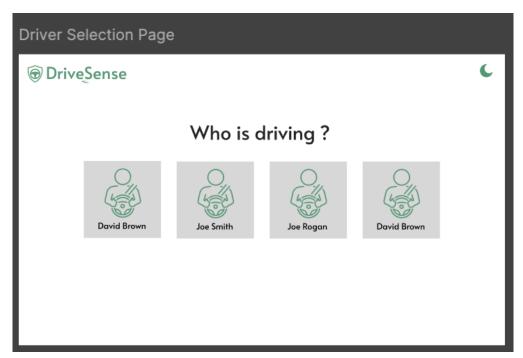
Ordered new parts (Camera, pressure sensors, power supply)

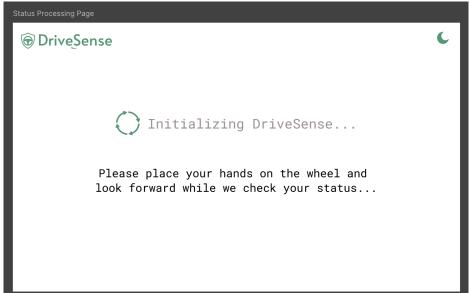
Software:

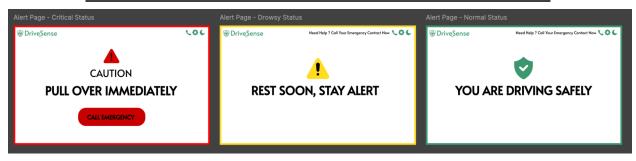
Added toast notification for driver removal



Added the logout button and began development of screen UI using React JS

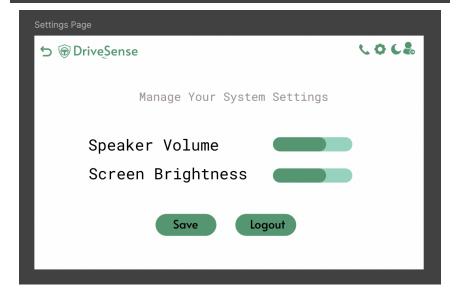












- Setup database and created database tables for the data will be using for website
- Begun development on REST API's
- Dockerized jetson nano environment to allow dev and testing remotely
- Created another docker container to allow the database to run at all times

Team Member Contributions:

Aaditya Shah:

- Sourced new hardware

Abdullah Ramadan:

- CI Pipeline Structure Implemented

Keith Tran:

- Set up Twilo account
- Coded Twilio implementation for screen device

Kevin Dang:

- Added toast notification for driver removal
- Began working on REST API's for database

Hajer Fquir:

- Finalized the UI Screen Mockup
- Started the development of the car screen
- Prepared a detailed list of APIs required for the UI screen

Sauray Guduru:

- Setup database tables on firebase
- Dockerized a jetson nano environment
- Created a docker container to host the firebase database

Issues and Resolutions:

Issue: None Status: N/A Resolution: N/A

Plans for next week:

Hardware Goals:

- Test new camera, pressure sensors and power supply
- Perform integration test with all HW
- Get measurements for new HW

Software Goals:

- Complete all API's related to sensor and UI data for database
- Create a main thread to survey all modularized drivers for HW
- Write unit tests
- Start the development of the new UI car Screen using React JS
- Prepare the list of APIs needed for the UI screen

Management Board Screenshots:

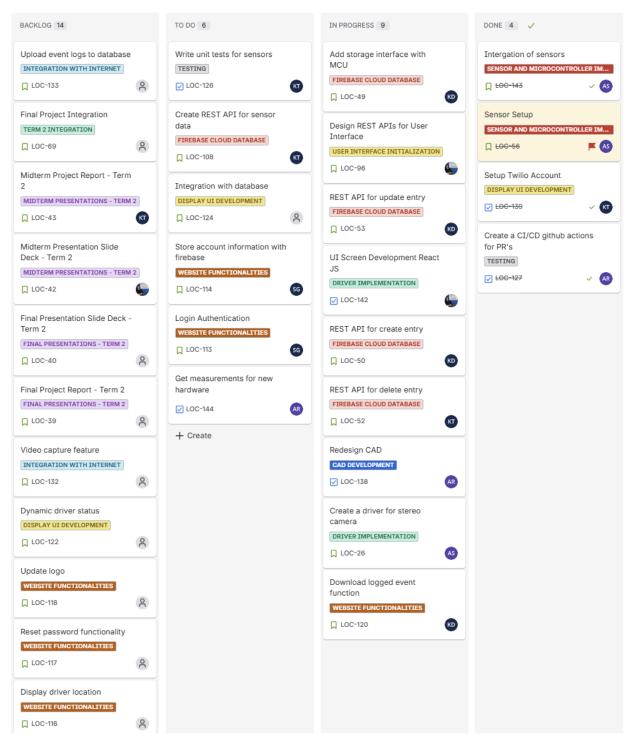
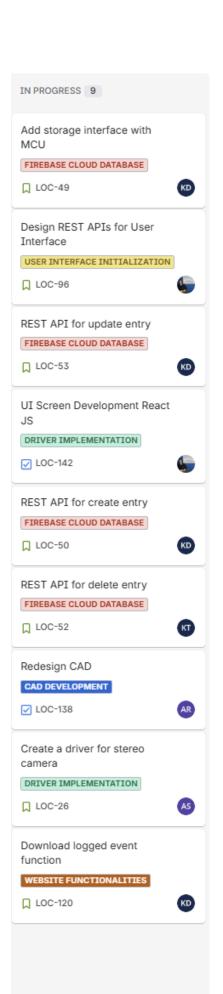


Figure 1 - General Management Board



Management
& Deliverables

Software

Hardware

QA

Firebase
Install new dependecies

Web
Frameworks

Testing different frameworks

Testing different frameworks

React Frontend

New UI Design

Figure 2 - This Week's Sprint

Figure 3 - WBS

Additional Notes: