CEG4913 Weekly Progress Report

Week #: 2
SCRUM/Sprint No. 10
Group Number: 3
Date: September 18th, 2025

One line summary of progress:
We have started the new part picking and ordering process, submitted our EEF form, and advanced our software work (UI/CAD).

Work Completed

Hardware:

- Updated our Jetson Nano drivers
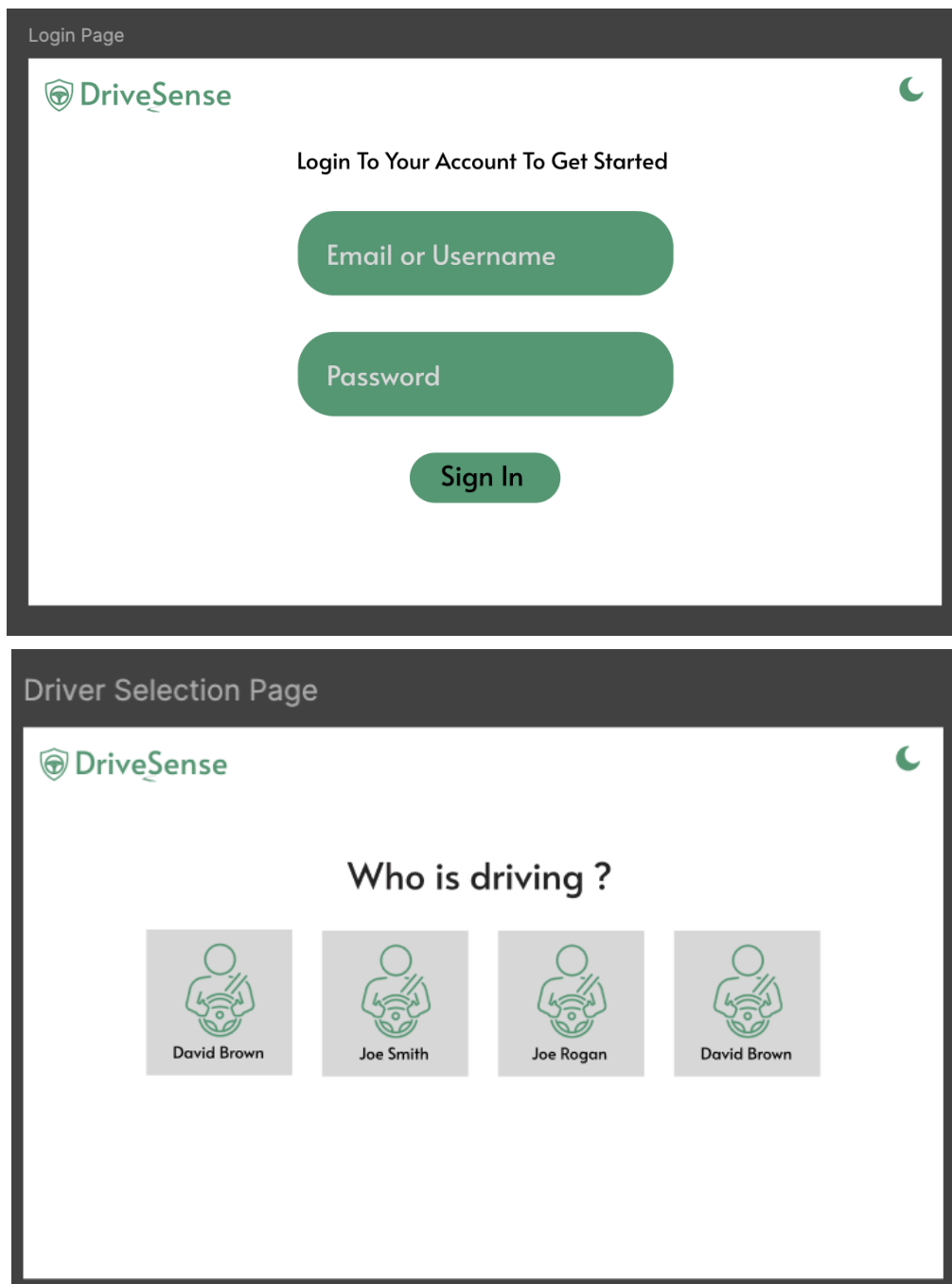- Submitted EEF form

Software:

- Updated emergency contacts
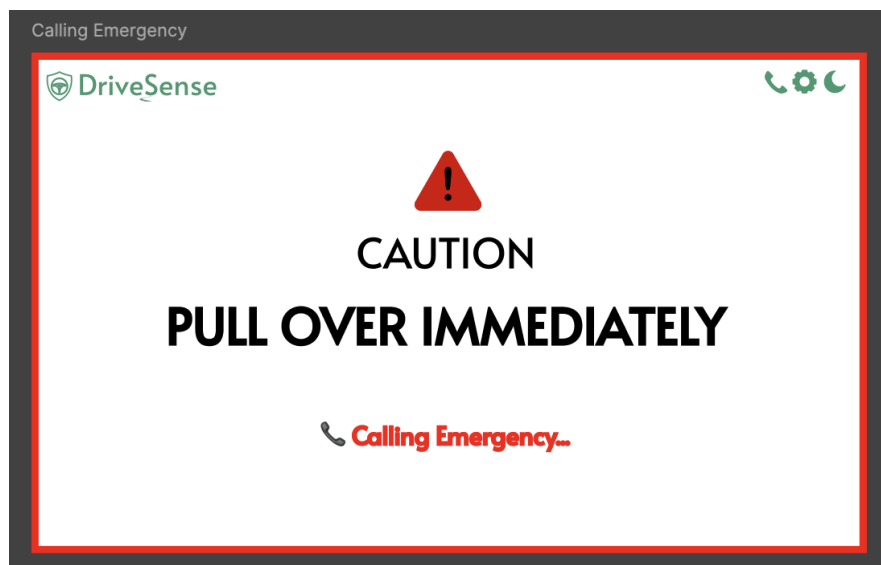 - Able to add multiple contacts and remove them as well
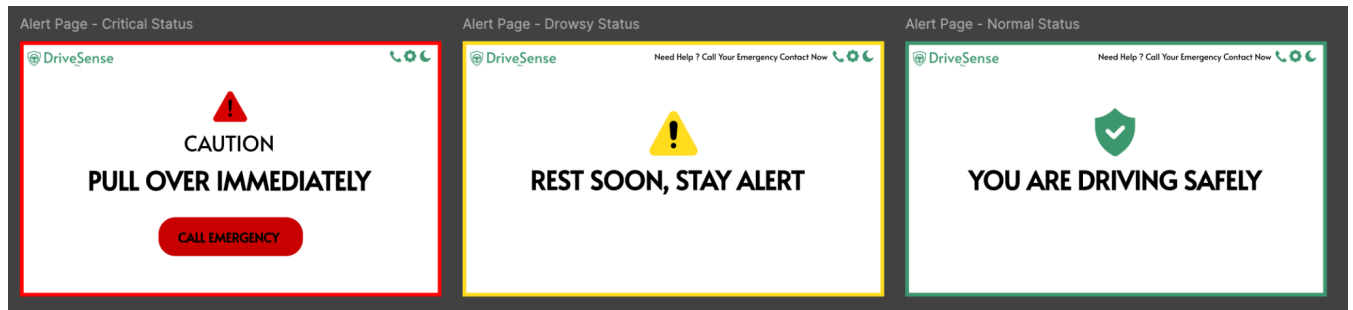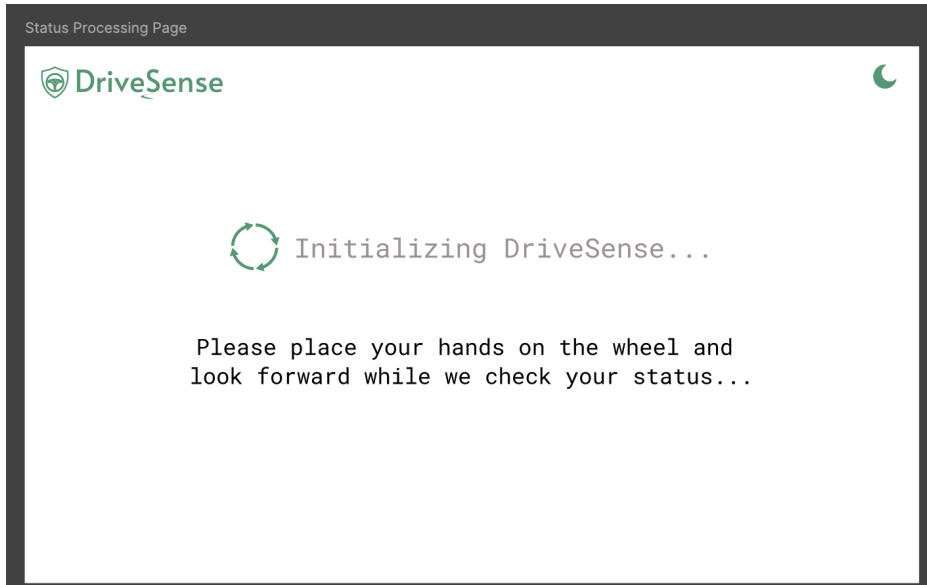
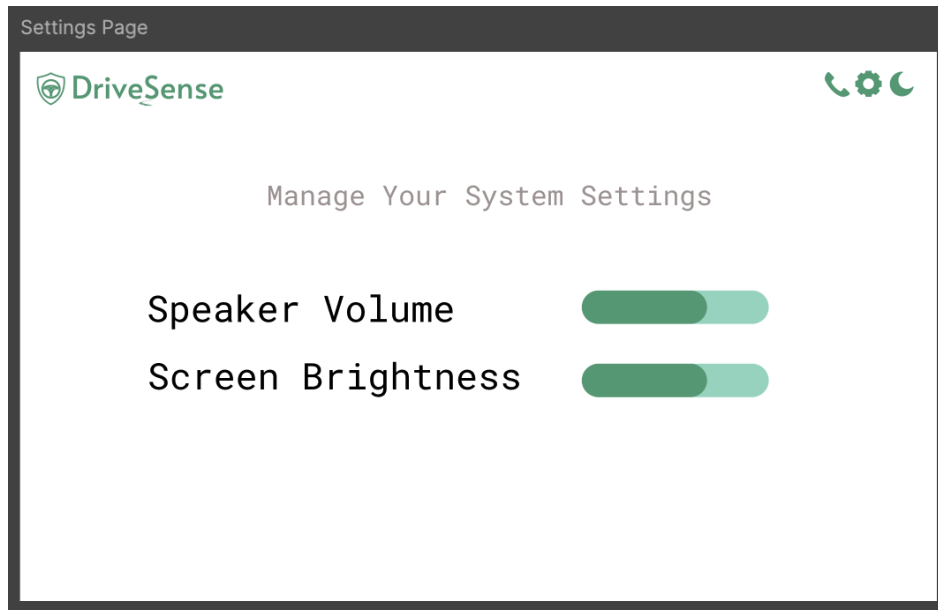● Updated the screen UI Mockup

Login Page

DriveSense

Login To Your Account To Get Started

Email or Username

Password

Sign In

Driver Selection Page

DriveSense

Who is driving ?

David Brown   Joe Smith   Joe Rogan   David Brown

Status Processing Page

🛡 DriveSense   🌙

◌ Initializing DriveSense...

Please place your hands on the wheel and
look forward while we check your status...

Alert Page - Critical Status

🛡 DriveSense   📞 ⚙ 🌙

⚠️

CAUTION

PULL OVER IMMEDIATELY

CALL EMERGENCY

Alert Page - Drowsy Status

🛡 DriveSense   Need Help ? Call Your Emergency Contact Now 📞 ⚙ 🌙

⚠️

REST SOON, STAY ALERT

Alert Page - Normal Status

🛡 DriveSense   Need Help ? Call Your Emergency Contact Now 📞 ⚙ 🌙

🛡✓

YOU ARE DRIVING SAFELY

Calling Emergency

🛡 DriveSense   📞 ⚙ 🌙

⚠️

CAUTION

PULL OVER IMMEDIATELY

📞 **Calling Emergency...**

- Rewrote hardware sensor drivers in C++

Team Member Contributions:

Aaditya Shah:
- Picked and ordered new parts for system

Abdullah Ramadan:
- Drafted CAD designs for new mounting design

Keith Tran:
- Updated JIRA board and workflow diagrams with latest tasks

Kevin Dang:
- Added additional functionality to website UI

Hajer Fguir:
- Developed new embedded UI for the application

Saurav Guduru:
- Dockerizing our development environment

Issues and Resolutions:

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

Plans for next week:

Hardware Goals:

- 3D print initial prototype CAD designs

Software Goals:

- Finish Screen UI Mockups
- Sketch initial new component mounts on CAD
- Dockerize our environment so we can work with a unified development environment
- Add notification when adding/removing a driver

Management Board Screenshots:

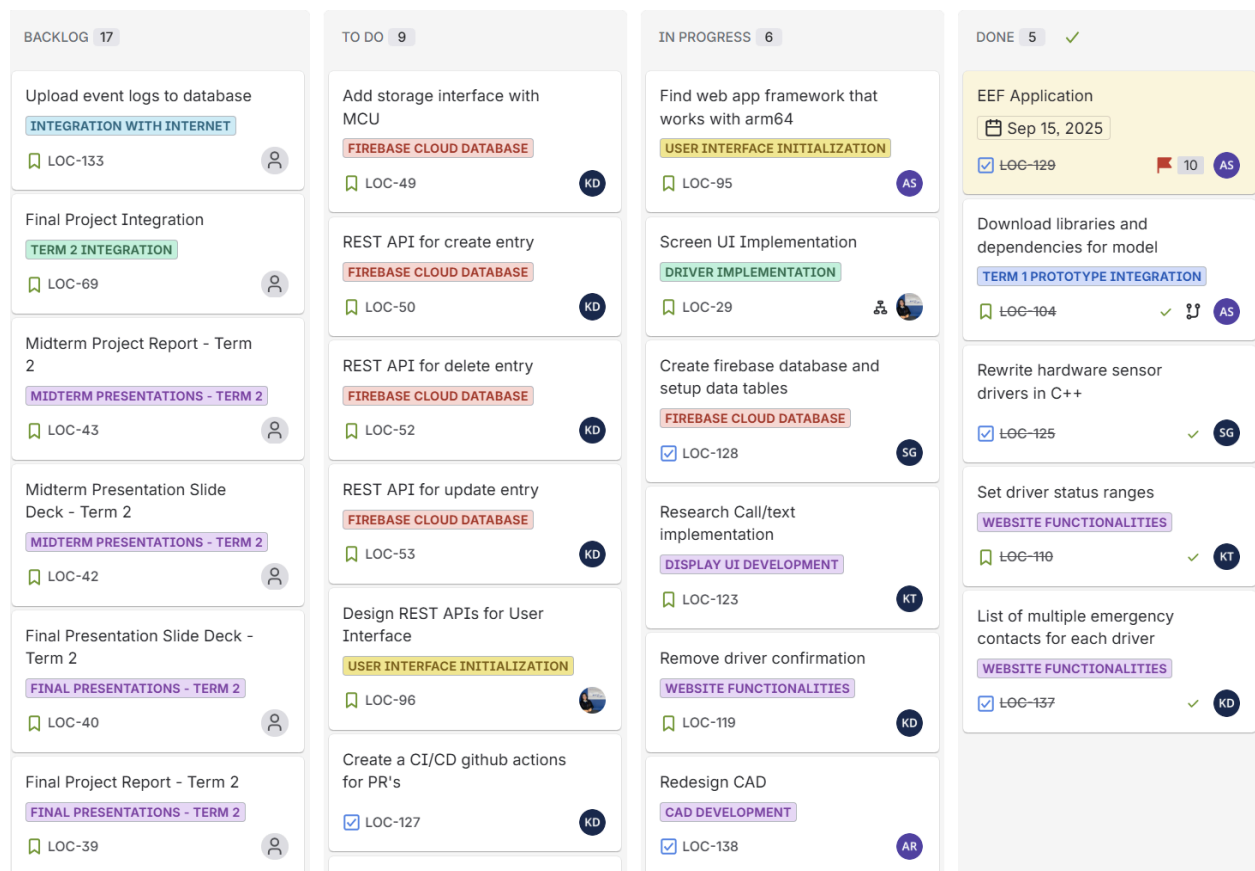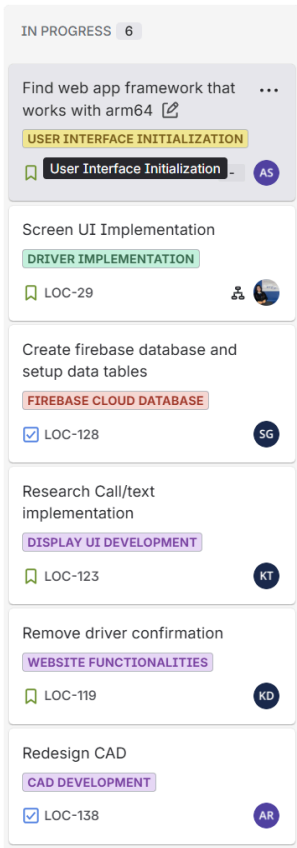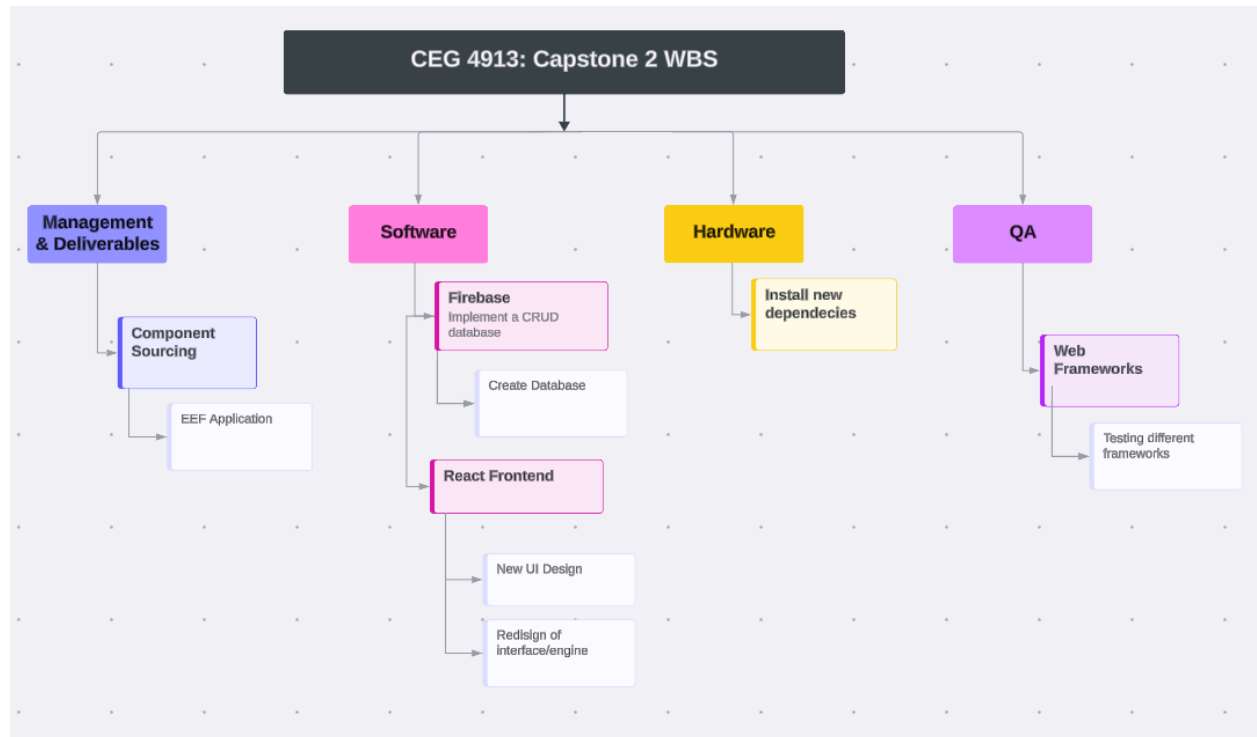Figure 1 - General Management Board

Figure 2 - This Week's Sprint

Figure 3 - WBS

Additional Notes: