

sddec20-11: Dash Cam Defender (Working Title)

Week 3 Report

February 17 - March 1

Team MembersEvan Timmons — *Team Leader/Client*Ismael Duran — *Full Stack Developer*Cobi Mom — *Chief Mobile Engineer*Danny Yip — *Head Test Engineer*Scott Vlasic — *Head Hardware Concept Engineer*Durga Darba — *Head Data Architect*

Summary of Progress this Report

Dashcam Defender™ Hardware Ideas - Scott & Evan

- Compared existing OpenALPR hardware benchmarks to existing platforms to find applicable boards
- Found NVIDIA Jetson TX-2 with adequate specifications for our project (computing power, I/O, WiFi and bluetooth etc)
- Researched cases and decided to look into making a case (3D printing or otherwise)
- Found 256 GB sd card for onboard video storage and verified adequate read/write speeds

Software Development Team - Ismael, Cobi, Danny

- Develop a simple user interface for login page
- Able to display login page on mobile emulator
- Draft and plan how the interface should look like
- Plan and discuss on some functionalities that we need in the mobile application

Backend Configuration - Durga Darba

- Create endpoints
 - Make database available to rest of the time
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Pending Issues

Check in with ETG

- Go to the ETG to ensure that the parts we've specified have been ordered
- Check to see when to expect the delivery of our parts

Branding

- Sparrow
 - Come up with a better Name
-

Plans for Upcoming Reporting Period

Dashcam Defender™ Hardware Configuration- Scott & Evan & Durga

- Begin work with Nvidia Jetson
- Send information to database

Software Development Team - Ismael, Cobi, Danny

- Design and outline application pages
- Discuss the information that is going to be stored
- Try to connect our application pages together.

Backend Configuration - Durga

- Work on design of the tables
- Get Postgres on my machine and edit the tables from my computer

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Evan Timmons	Finished sections 1 and 2 of the design document and began other sections. Researched hardware components with Scott and made a part list of needed purchases.	12.5	0
Ismael Duran	Set up flutter environment. Discussed potential mobile application activities. Discussed functionality of the app.	12	0
Cobi Mom	Helped the team set up their Flutter development environment. Looked up some possible design styles for our mobile application.	13	0
Danny Yip	Set up android studio, and visual studio and start learning and trying on dart in visual studio. Make a simple login page user interface with dart and display it on flutter.	14	0
Scott Vlastic	Worked on and finished Design Document Version 1 with the rest of my team members. Evan and I researched hardware parts and finalized what we would be ordering from the ETG.	12	0
Durga Darba	Started working on design of database. I created a couple tables for username and password storage. I will continue to hash out the tables for the next sprint cycle. I will continue working with the hardware team.	13	0

Gitlab Activity Summary

Nothing to report.

