

## ***EE/CprE/SE 491 WEEKLY REPORT 10***

***Nov 15 – Nov 21***

***number: sdmay25-44***

***Project title: FixIt***

***Client &/Advisor: Berk Gulmezoglu***

***Team Members/Role: Benjamin Muslic, Jonathan Duron, Mohammed Elaagip, William Griner***

### **Weekly Summary**

This week the team focused on getting all ends of the project to talk

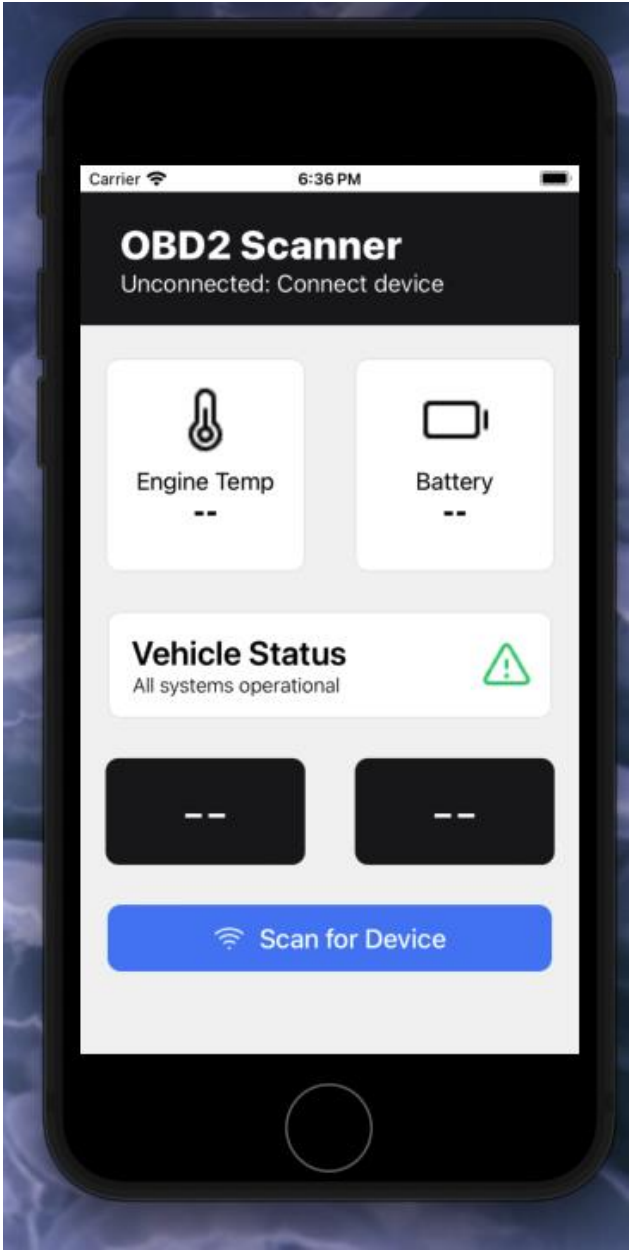
### **Past week accomplishments**

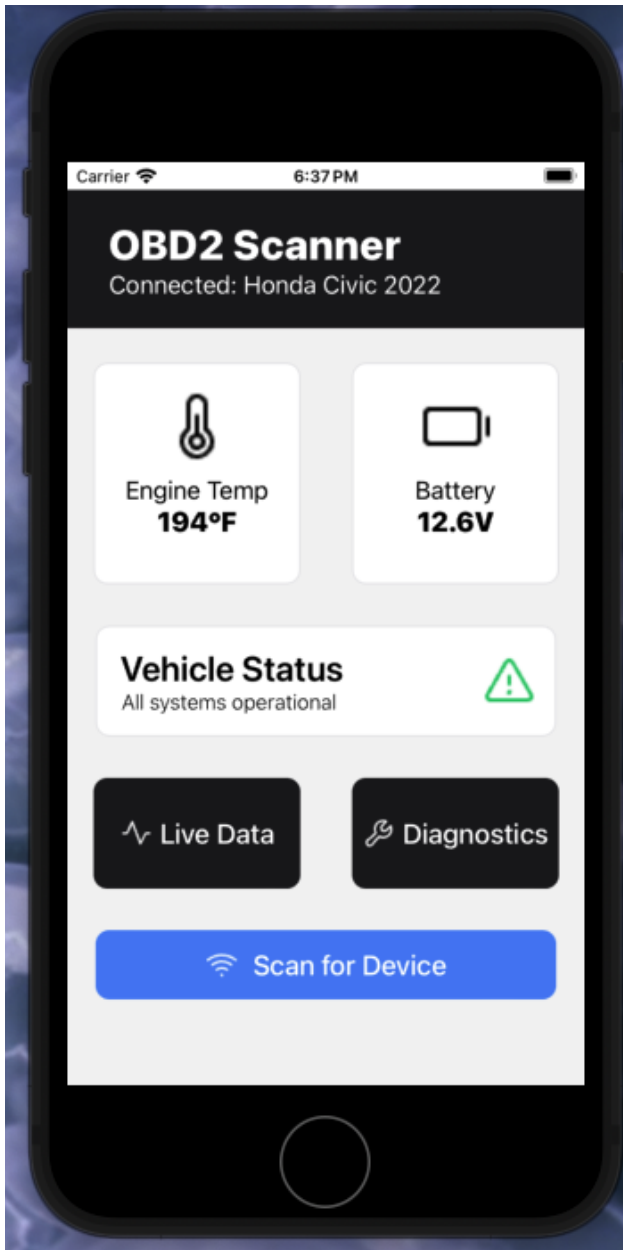
#### **Benjamin Muslic**

- Picked up ECU-Sim 2000 from ETG
- Studied ECU-Sim 2000 documentation
- Spent time figuring out how to get it to work
- Demonstrated current capability live in person to team
- Researching cloud again

#### **Jonathan Duron**

- Finished the home screen
- integrated Ben's code to the home screen
- Attempted to run the app on an actual device but ran into errors.





### **Mohamed Elaagip**

- Continued documenting requirements that bridge Software, Hardware, and Cloud/Storage.
- Advanced quality assurance and testing procedures.
- Investigated and documented system-level integration challenges to enhance project cohesion.
- Engineering UI for additional pages

## William Griner

- Implemented an Elastic load balancer into our cloud setup which will be used to efficiently distribute cloud compute workloads.
- Create slides and prepared for our lighting talk

## Pending issues

None at the moment.

### ○ Individual contributions

<u>NAME</u>	<u>Individual Contributions</u> <i>(Quick list of contributions. This should be short.)</i>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Benjamin Muslic	<ul style="list-style-type: none"><li>• ECU Sim 2000 experimentation and research</li></ul>	8	57
Jonathan Duron	<ul style="list-style-type: none"><li>• Finished home screen</li><li>• Integrated Ben's Bluetooth code to our repo</li><li>• Attempted to run app on actual device</li></ul>	7	60
Mohamed Elaagip	<ul style="list-style-type: none"><li>• Documented requirements, advanced QA/testing, system integration</li><li>• Another round of UI engineering starting</li></ul>	6	56
William Griner	<ul style="list-style-type: none"><li>• implemented an elastic load balancer</li><li>• worked on our lighting talk</li></ul>	4	61

## Plans for the upcoming week

### Benjamin Muslic

- Experiment more with OBD emulator
- Touch basis on Will again regarding cloud

### Mohamed Elaagip:

- Keep documenting requirements that bridge our Software, Hardware, and Cloud/Storage
- Advance quality assurance and testing
- Keep working on UI Engineering

### **Jonathan Duron**

- Run the app on an actual device.
- Debug why app does not run on real device.
- Test app through the emulator

### **William**

- Implement the code for our backend server to receive the OBD codes from the mobile app
- implement auto-scaling so our cloud compute needs can grow with user demand
- implement health checks to automatically detect unhealthy (not working) compute instances
- add termination policies to automatically terminate and replace unhealthy compute instances