

EE/CprE/SE 491 WEEKLY REPORT 06

Availability Prediction Based on Multi-Context Data

Week 6 Report

10/17/18-10/24/18

sdmay19-33

Client & Advisor: Goce Trajcevski

Team Members:

Justice Wright: Report Facilitator

Shane Impola: Scribe

Noah Chicchelly: Meetings and Communications Facilitator

Nick Schmidt: Software Systems Engineer

Tristan Anderson: Network Systems Engineer

Brendon McGehee: Hardware Systems Engineer

Weekly Summary

This weeks focus was heavily around documentation, as per the request of our client. This meant a heavy emphasis on testing as well to help shore up the testing areas of our documentation which proved to be the most lacking based upon our initial drafts. This meant sensor testing validation for the hardware team, dummy data generation/validation for the backend team.

Past Week Accomplishments

Researched sensor integration - Brendon & Justice

- Continued to research how to implement sensors and transceivers with the networking component of the project.
- Worked on expanding information in the project plan.
- Started setup of testing criteria for the hardware component of the project.
- Began initial pi testing with AWS.
- Continued to research pi-> sensor node data transfer optimization.

Continued setting up server architecture and database, worked on project documentation - Shane

- Continued working on basic testing tools
- Worked on revising the Project Plan

Further improvement and design of Flutter app. - Tristan, Nick

- Continued working on basic testing tools
- Worked on revising the Project Plan

Server and database work, with project documentation - Noah

- Test tools, and organizational upkeep for database and servers.
- Design doc, project plan, reflection work on the overall project documentation.

Hours Report

<i>Team Member</i>	<i>Weekly Hours</i>	<i>Total Hours</i>
Justice Wright	4	28
Shane Impola	4	31
Noah Chicchelly	2	30
Nick Schmidt	3	31
Tristan Anderson	4	30
Brendon McGehee	5	32

Upcoming Week

Brendon

- Work with Justice on sensor data transfer for hardware component to networking component
- Look into implementation of hardware component (i.e. PCB and enclosures)
- Execute testing for hardware component
- Edit documentation to the standard that Goce wants

Justice

Shane

- Finish the server architecture and database implementation
- Work on developing testing tools
- Begin to test server functionality

Tristan

- Adjusting project plan to meet new standards.
- Work on developing testing tools
- Begin to test server functionality

Noah

- Finish the server architecture and database implementation
- Work on developing testing tools
- Begin to test server functionality
- Finish up reflection
- Continue updating project plan

Nick

- Work on Flutter app GUI.
- Continue to develop project plan and design document.
- Work on algorithm for creating test data.