

## sdmay19-36: IoT sensor integration and back-end development for Sequoia

Week 9 Report

November 1 - November 18

### Advisor

Daji Qiao

### Team Members

Michael Ludewig — *Meeting Facilitator*

Justin Somers — *Gitlab Administrator*

Josh Lang — *System Architect*

Josh Hatten — *Scrum Master/Website Manager*

Cody Brooks — *DevOps Lead/Report Manager*

Guan Lin — *Testing Lead*

---

### Summary of Progress this Report

Over this reporting period our group was working on 3 main parts of the project. The first thing that we were working on is getting the server set up for the smart plug. This involved setting up a table in the database for the data, and adding code to populate that table with the data from the plug. The second thing we were working on was modifying the Android app that is being used to display sensor data to include data from the smart plug. This involved adding new views to the app for the plug data, and figuring out what the data end points would be. The third thing that we were working on was getting the flow meter that will be used to monitor water use working.

---

### Pending Issues

One pending issue we are dealing with is making sure that the code for the smart plug will run continuously on the sensor hub. Another issue that we are working through is we still do not have a smart watch that we are going to use to get health data from the senior.

---

### Plans for Upcoming Reporting Period

In the upcoming reporting period we plan to finish getting the smart plug data sent to the server completely and getting the code to run contentiously one the hub, and finishing refining the layouts and JSON requests in the Android app.

---

### Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Michael Ludewig	Modifications to the Android App	9	47
Justin Somers	Work on Spring instance for the smart plug	15	54
Josh Lang	Smart watch research	5	38

Josh Hatton	Setting up smart plug database tables and continued work on smart plug API	8	44
Cody Brooks	Smart Plug code automation	6	38.5
Guan Lin	Flow meter work	8	39

**Gitlab Activity Summary**

Nothing to report.

---