

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

Week 5 Report

October 2 - October 10

**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**

During this period our team was accomplishing two major tasks. The first task was writing skeleton code for the smart plug that we received in order to make sure that it will generate the needed data, and that the data is fairly reasonable. The other major task that we were working on was brainstorming ways that we can track the senior in their apartment while also providing the other requirements of the system (fall detection, and outdoor tracking).

**Pending Issues**

Issues that we are still working on include getting the data formatted correctly from the smart plug. We also need to meet with the other senior design group to figure out where to run our code in the existing system.

**Plans for Upcoming Reporting Period**

Our plans for the upcoming reporting period include meeting with the previous senior design group to see how their server works to make sure that we can send the data to the server in the correct form, and run our code in the correct place. We are also planning to write code to send the data the plug generates to the server, and work on getting more plugs so we can integrate the smart plugs into the pilot program.

**Individual Contributions**

Team Member	Contribution	Weekly Hours	Total Hours
Michael Ludewig	Worked with the smart plug API, and coordinated with the other team	6	24
Justin Somers	Wrote skeleton code for smart plug and test code for the device	7	28
Josh Lang	Research on smart watches that can be used without a phone	6	21
Josh Hatten	Work on implement the smart link nodeJS API to send data to the server	6	26
Cody Brooks	Smart Plug API research	5	20.5

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Guan Lin	Research on smart watches that can be used without a phone	5	19

**Gitlab Activity Summary**

Nothing to report.

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