

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

Week 8 Report

October 25 - October 31

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 continued to make progress on two parts of the project. For the smart plugs we worked with the new API to use the subscriber service to get notifications when the something plugged in to the plug is used. We also used the API to get the current usage statistics. For the smart watch we started to modify the Android phone fall detection app for the Wear OS.

Pending Issues

One issue that we still need to address are making sure we don't disrupt the other groups data when we are adding the data from the smart watch to the server. Another issue that came up that we need to address is that Verizon (the main cell provider of our client) does not support the LG Sport 2, and that there are limited places that the watch can be acquired.

Plans for Upcoming Reporting Period

For the next week our plans are to automate the running of the API for the smart plug so that it doesn't have to be restated manually, to work to get data sent to the database from the plug API, to continue to revise the fall detection app for the smart watch, and to develop a test plan for testing the fall detection.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Michael Ludewig	Modifying the fall detection app for Wear OS	5	38
Justin Somers	Smart plug code writing	5	39
Josh Lang	Smart watch availability research	3	33
Josh Hatton	Tested 2nd plug API and found that multiple plugs can be tracked on the same WiFi network.	3	37

Cody Brooks	Smart Watch availability research	4	32.5
Guan Lin	Fall detection test plan	5	31

Gitlab Activity Summary

Nothing to report.
