

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

Week 13 Report

February 14– February 20

Advisor

Daji Qiao

Team Members

Michael Ludewig — *Meeting Facilitator*

Justin Somers — *Gitlab Administrator*

Josh Lang — *System Architect*

Josh Hatton — *Scrum Master/Website Manager*

Cody Brooks — *DevOps Lead/Report Manager*

Guan Lin — *Testing Lead*

Summary of Progress this Report

During the last week we made good progress on multiple parts of the project. We got the layouts for the Flow meter on the Android app finished. We got the flow meter to send some data to the server. We also got the smart watch that we will be using for development for the first time, and were able to get some preliminary development done, and set up a time line for getting the implementation done.

Pending Issues

One big issue that we are working on at this point is that we still don't have the RightMider API documentation, and it is starting to get to the point where we will not have time to finish everything that needs to get done with it. A second issue that we are working on is getting everything integrated into the server.

Plans for Upcoming Reporting Period

During the upcoming reporting period we plan to finish getting the flow meter integrated with the server and get it installed at our client's office, and to start running the final tests on the smart outlet to prepare to get that installed for testing in our client's office. We will also begin the development of the smart watch.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Michael Ludewig	Started layouts for flow meter	5	69
Justin Somers	Updating design diagrams	5	86
Josh Lang	Preliminary smart watch development	4	56
Josh Hatton	Smart plug event duration testing	4	70

Cody Brooks	Preliminary smart watch development	4	55.5
Guan Lin	Flow meter server integration	7	66