

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

Week 14 Report

February 21– February 27

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 continued work on all parts of our project. The Android app was reconfigured so that it now gets the duration data and sets up the display correctly. The flow meter is now working to send data locally, we now just need to send it to the server. We made initial steps in developing both front and back end development. For the smart plug we are working on forwarding events to the duration table, so we can read them into the app successfully.

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 is that the last three meetings with our client have been canceled because of terrible weather.

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 run final tests on the smart outlet and get it installed in our client's office. We will also continue the frontend and backend development of the smart, and get the flow meter data to appear on the app.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Michael Ludewig	Integrated Android app with duration data	7	76
Justin Somers	Fixing smart plug server errors	5	91
Josh Lang	Watch application development	2	58

Josh Hatton	Smart plug testing and maintenance	4	74
Cody Brooks	Smartwatch backend development	3	58.5
Guan Lin	Flow meter implementation	4	70