

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

Week 18 Report

March 29 – April 3

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 reporting period our group completed the following things: We completed the full layout (minus endpoints) for the step count part of the Android app. We soldered the flow meter to a Raspberry PI to get it ready for instillation. We finished preparing for the watch to send data to the backend server, and to have the server send data to the android app.

Pending Issues

The three biggest issues that we are dealing with right now are mapping out the data path from the smartwatch to the Android app, getting the flow meter installed for testing, and not having clear guidelines about what needs to be done for our final poster/report/presentation.

Plans for Upcoming Reporting Period

During the upcoming reporting period we plan to get the flow meter installed in the piolet program. Finish mapping out the data path for the smart watch data and start preparing for our final presentation.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Michael Ludewig	Finished layout for step counts	5	97
Justin Somers	Helped Cody with backend	3	108
Josh Lang	Smart Watch app design	4	78
Josh Hatton	Smart plug test management	2	95
Cody Brooks	Smartwatch backend implementation	5	73.5

Guan Lin	Soldering PI for flow meter	3	94
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