

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

Week 20 Report

April 11– April 17

### 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*

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### Summary of Progress this Report

During the last reporting period we finished up most of our implementation and began working on final documentation. The last bits of implementation that we finished were cleaning up the smart watch to make it send data to the server in a more power efficient manner and getting the flow meter installed in the piolet program. We also began working on the final poster, and final presentation. We also recorded the video for our final demo.

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### Pending Issues

The only major issue we are currently having is that we are struggling to be able to read the heart rate from the senior in our piolet program because the watch can not fit tight enough to read his pulse.

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### Plans for Upcoming Reporting Period

For the rest of the semester the plan is to revise the final poster and continue to edit the demo video, start on the final report and presentation, and go through the project to make sure that everything is documented well enough for it to be passed off to our client.

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### Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Michael Ludewig	Debugged Android app issues, and worked on the final demo and poster	9	114
Justin Somers	Work on final demo and poster	8	120
Josh Lang	Smart watch development	14	96
Josh Hatton	Data visualization and final poster	7	109

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Cody Brooks	Final poster and Demo video work	8	91.5
Guan Lin	Flow meter instillation	6	107