

**sdmay18-21: Smart Laundry Planner**

Week 7 Report

October 11 - October 18

**Team Members**Yazan Okasha — *Hardware Engineer*Almedin Mulalic — *Backend Engineer*Nathan Francque — *Hardware Engineer*Grant Wanderscheid — *Team Lead and Mobile Development Engineer*Lily Mosman — *Backend Engineer*Jay Sanborn — *Mobile Development Engineer*

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**Summary of Progress this Report**

This week the mobile and hardware teams started delegating some of their work to the back-end team as the database does not need any more development as this point. On the hardware side, work has been done to further the capabilities of sending sensor data to a local server that has been set up. Work has also started on being able to send the data that the local server accumulates to the database. On the mobile side, research and ideas have been gathered to assist with the creation of an interactive store map and a visual analytics screen. This past week more development has also been done to couple the mobile app and the database together. The store selection screen has almost all its functionality implemented and has all communication with the database implemented/functioning.

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**Pending Issues**

- Still trying to figure out most effective way to send data from local server to database – Almedin
  - Lack of testing on sensor capabilities – Hardware Team
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**Plans for Upcoming Reporting Period**

Finish cleaning up the store selection code and start database communications within map page – Grant

Further develop and hopefully finish the ability to send data from local server to the database – Almedin

Start to implement card layouts for machine list activity - Jay

Formal testing of each sensor and considering/researching new sensors and Arduinos – Nathan

Work with the mobile development team to assist with their goals - Lily

Work on making the python script modular so that its process is more automated for the end user - Yazan

## Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Yazan Okasha	<ul style="list-style-type: none"> <li>Refactored Arduino code to make it more readable</li> <li>Added comments and documentation to Arduino code</li> <li>Tested communication with Windows to Arduino board</li> <li>Wrote python script to automate communication over Windows and Linux</li> <li>Switched over to new IDE to develop with more ease</li> </ul>	10.5	40.75
Almedin Mulalic	<ul style="list-style-type: none"> <li>Met with Nathan to get caught up with what the hardware team is doing in order to help them</li> <li>Working on sending gathered sensor data from local server to database</li> </ul>	2.5	19
Nathan Francque	<ul style="list-style-type: none"> <li>Worked with Yazan to communicate over Windows</li> </ul>	2	25
Grant Wanderscheid	<ul style="list-style-type: none"> <li>Realtime database configurations</li> <li>Development of store selection mobile app page               <ul style="list-style-type: none"> <li>Add store</li> <li>Delete store</li> <li>Show user's stores</li> <li>Query based on user and their stores</li> </ul> </li> <li>Commenting and cleanup of code</li> </ul>	9	56.5
Lily Mosman	<ul style="list-style-type: none"> <li>Updates to website</li> <li>Research into implementation of interactive store map               <ul style="list-style-type: none"> <li>Android</li> <li>HTML</li> <li>Image mapping</li> </ul> </li> <li>Started development on interactive store map in HTML</li> </ul>	5	20.5
Jay Sanborn	<ul style="list-style-type: none"> <li>Researched visual analytics</li> <li>Researched android card view for machine information screen</li> </ul>	3	20.25