sdmay18-21: Smart Laundry Planner
Week 3 & 4 Report
January 25 - February 7

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*
Devesh Mohan - *Hardware Engineer*

Summary of Progress this Report
This reporting period the hardware team received their parts order and was able to construct a working current sensor. So far, the sensor has only been tested on a charging phone (low current), it next needs to be tested on laundry machines so they know what types of readings to expect. In other areas, the mobile development team was able to make some advanced within the app UI and logic of the components. This was also advanced within the interactive store map webpage as it now is hosted on a server and just needs a few more tweaks to be complete. This reporting period there were also minor advancements made to the local in store server and app that can be further explored in the hours table on the next page.

Pending Issues
- Still figuring out exactly how to use firebase functions with nodejs -Grant
- Low current levels make it difficult to see on/off state changes on phone wire, need to test on machine wire -Hardware Team
- Bugs exist within the itemAnimator -Jay

Plans for Upcoming Reporting Period
Talk with team about next goal to work towards -Almedin
Add user registration authentication to app -Grant
Test and alter sensor to work with to work with a laundry machine, rather than phone charger -Hardware Team
Get rid of itemAnimator Bugs -Jay
Develop landing page for the in-store app -Yazan
Finish image map for machines within the interactive store map page -Lily

Individual Contributions

Team Member	Contribution	Report Hours	Total Hours
Yazan Okasha	• Successfully created device to sense current running through a charging phone's wire • Able to get the in-store app sessions, cookies, and login page to work	12	20
Almedin Mulalic	• Finished in store visual/analytics page until advancements made with sensor	5	10.5
Nathan Francque	• Worked on in store node server • Successfully created device to sense current running through a charging phone's wire	5	9
Grant Wanderscheid	• Edits to the add location button • Implementation for swipe to delete on store selection page • Fixed various bugs on the store selection page such as swipe to delete bug, adding stores bug, and some other ones. • Learned about webviews and set one up for later use with the interactive store map • Learned about firebase cloud functions and nodejs to mess around with their implementation and use to later call upon	16	30.5
Lily Mosman	• Research on firebase hosting for the interactive store map • Added functions to show store from database on the interactive store map site • Added site to our firebase hosting service	7	12
Jay Sanborn	• Worked on card flips in the machine page of android app	5	7
Devesh Mohan	• Successfully created device to sense current running through a charging phone's wire • Researched and calculated values for signal analysis for interfacing with Arduino • Built current sensor circuit for Arduino compatibility	7	10