sdmay18-21: Smart Laundry Planner

Week 9 Report
October 25 - November 01

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*

Summary of Progress this Report

This week for the first time we were able to see and demo a full traversal of data from the sensing unit to the mobile app. This was done by finishing up the Arduino code that allowed for the posting of data from the sensor to the local server. Some minor edits on the local server code then allowed for that received data to be posted into the database where it could be monitored and pulled from within the android application. On top of the new full data flow, this past week the mobile team has been able to further the functionality of the android app by adding more database calls, fixing bugs, and increasing the user experience (through more information rich content while still being comprehensible). On the last day of this reporting period, the hardware team also decided on a new current sensor for testing and will work to get that ordered in a timely manner so they may start testing with it as soon as possible.

Pending Issues

- Signal processing and data collection -Hardware Team

Plans for Upcoming Reporting Period

Finish webpage that allows machine owners to view their machines with devices and their states -Almedin
Order a current probe and clean up Arduino code -Yazan
Get poll results and move forward with new sensor choice as availability allows -Nathan
Work on implementation of interactive store map and start research of machine learning -Lily
Research android recycler view animations and do some documentation -Jay
Add log out feature within app and add drawer menu to google maps page -Grant

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Yazan Okasha	• Completed functionality for posting Arduino data to local server • Modified some local server side code that allows posting of data to database	8	52.75
Almedin Mulalic	• Started developing webpage portal for machine owner to view machine states	1	23
Nathan Francque	• Researched and found a new sensor (current sensor) to purchase and test • Created online poll	2	29

Grant Wanderscheid	• Documentation revisions
	• Added functionality
	  ○ for machine related database updates
	  ○ to the android google maps page
	  ○ to the store selection page
	• Fixed bugs within android store selection page
		8	72.75

Lily Mosman	• Updated team webpage • Continued research on interactive store map	1.5	24
Jay Sanborn	• Implemented android card views for showing machine states in a user-friendly way	4	30.25