sdmay18-21: Smart Laundry Planner
Week 6 Report
October 04 - October 11

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 the hardware team started reading data from one of its sensors. They were able to configure the sensor to send data real-time to a local server through a WIFI connection. The hardware team also further developed the local server to be used for communicating with the machine state sensor. The backend team got the database to a point where it does not need any more configuration changes until otherwise needed by the mobile or backend side. They have done some tests on the mobile app and are going to start working alongside the mobile and hardware teams to help them with their goals in the coming weeks. This week the mobile team was able to create a unique user in the database upon a new account registration. This is key for allowing users to have user specific data relations within the database.

Pending Issues

- Allowing the local server console to work cross platform and stopping it from segmentation faulting on some memory writes – Hardware Team

Plans for Upcoming Reporting Period

Finish development of email verification and password reset - Almedin
Continue the integration of real-time database calls to previously developed app pages – Mobile Team
Help mobile team or hardware team with current goals – Lily
Become comfortable with windows communication to start wrapping commands in a UI and determine if the chosen sensor is a viable solution – Nathan
Resolve memory bugs and clean up/modularize local server code – Yazan

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Yazan Okasha	• Configured Arduino for wirelessly sending post requests with sensor data • Wrote a bash like command line over uart to handle memory allocations	7	30.25
Almedin Mulalic	• Tested the sign in and register account functionality within app – found some bugs to be fixed • Started working on email verification and password reset	3.5	16.5
Nathan Francque	• Soldered pins into Arduino for breadboard sensor testing • Configured Arduino for wirelessly sending post requests with sensor data • Modified local server to accept and serve up current state of sensor via real-time socket • Development of serial console for user setting on Arduino	10	23
Grant Wanderscheid	• Researched and implemented unique user ID addition to the database upon new user registration • Edits and drafting of project plan and design documents	7	47.5
Lily Mosman	• Website updates	.5	15.5
Jay Sanborn	• Worked on soldering and signals with Arduino • Finished commenting google maps page in mobile app	3.5	17.25