sdmay19-13: Small Equipment Checkout System
Week 3 Report
February 22 - February 29

Client & Advisor:

Leland Harker

Team Members

Yimin Wang *— Hardware team (Chief Manager)*
Fengnan Yang *— Hardware team (Hardware Reporter and Meeting Manager)*
Jiaxin Li *— Hardware team (Treasurer)*
Caining Wang *— Software team (Software Reporter)*

Summary of Progress this Report

During this week, the hardware group started to test our circuit on the breadboard and made some change. First, the group changed the slave device from one PIO DS2406 to eight PIOs DS2408 in order to control more components. Second, after discussed with software group, removed buzzer and square wave generator on the slave device. Finally, the group finished the slave PCB version 1 design. For the software group, they changed authorization logic and added alarm system on the programming. At the end of the week, our group discussed with Mr. Harker about the slave circuit design and got some suggestions.

Pending Issues

1.   The connection between the master device and the slave devices.
2.   How to set up the OWFS

Plans for Upcoming Reporting Period

1.   Solder and test the PCB version 1.
2.   Continue research and study about react.js.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours

Jiaxin Li	1. Modified the door detecting circuit design. Changed the slave device from single programmable pin Ds2406 to eight pins Ds2408. 2. Set the latch system on PIO 0 and added a new LED system on PIO 1.	4	89
Yimin Wang	Modified the door detecting circuit. 1. Removed buzzer and square wave generator. 2. Connected the output of the hall effect sensor with the PIO 2 of DS2408 3. Measured the output of the hall effect sensor	2	90
Caining Wang	1. Changed authorization logic, so the user can access equipment information without sign in. 2. Create a new page to show all lockers in a GridList with the item's name. 3. Doing the research and studying about react.js.	6	90
Fengnan Yang	1. Built PCB version 1 based on our breadboard circuit. 2. Discussed with Harker about our slave circuit design.	6	86

Gitlab Activity Summary
Nothing to report.