EE/CprE/SE 491 WEEKLY REPORT #5

Report Period:
10/12/2020 - 10/26/2020

Group number:
21

Project title:
Small Equipment Checkout System

Client &/Advisor:
Leeland Harker

Website:
http://sddec20-21.sd.ece.iastate.edu/team.html

Email:
sddec20-21@iastate.edu

Team Members/Role:
Samuel Sklar - Circuit Board Lead
Kailin Zheng - Hardware Design Lead
Seth Jones - Integration Engineer
Shubham Chauhan - Interface Lead
Michael Momot - Server/Database Engineer
Thomas Smith - Scrum Master/Architect/Developer

- Sprint Summary: This sprint has been a rough one for us. Issues became apparent in the PCB design, further delaying our ability to integrate. In addition, one of our primary integrators has tested positive for COVID, and will not be able to work on the product in person for at least 10 more days, pushing us dangerously close to our deadline.

- Past sprint accomplishments :
- ❖ Thomas Smith: Created presentation for PIRM, wrote report, and worked on front end software.
- ❖ Seth Jones: PRIM meeting, soldering training continued, and facilitate and run meeting with client and hardware team to complete plan for PCB.
- ❖ Micheal Momot: PIRM meeting, dev server up and running
- ❖ Shubham Chauhan: Continued working on the software code for the commenting on the functionality of the codes. Contributed and attended the PIRM meeting about the status of the project.
- ❖ Kailin Zheng: Attended the PIRM meeting about the status of the project. Meeting with Lee to help update and modify PCB requirements and settings
- ❖ Samuel Sklar: Work on PCB schematic and ordering getting feedback from client.

- Pending issues: These are our issues.
- ❖ Thomas Smith: Doesn't have experience in the areas that need the most help at the moment - hardware.
- ❖ Seth Jones: Need to finish correcting issues in PCB board. Has been tested positive for COVID
- ❖ Micheal Momot: Server certificates
- ❖ Shubham Chauhan: Still need to fix the university ID feature not working properly on the website.
- ❖ Kailin Zhang: Is blocked on integration work due to PCB issue
- ❖ Samuel Sklar: Need to finish correcting issues in PCB board

- Individual contributions

Name	Individual Contributions	Hours this week	Hours cumulative
Thomas Smith	Created presentation for PIRM, wrote report, and worked on front end software	11	36
Seth Jones	PIRM, soldering training, and PCB discussion	7	31
Micheal Momot	PIRM Meeting, worked on backend software	5	28

Shubham Chauhan	Attended and presented in the PIRM meeting with the team, also been working on the documentation of the code review.	6	27
Kailin Zheng	PIRM Meeting, and meeting with Lee to update and modify the PCB board	6	28
Samuel Sklar	PCB work	6	37

- Comments and extended discussion: At this point resolving the integration in time is becoming a huge risk. With now the addition of our lead integrator getting COVID, we are working through how to get the right person on the TLA installing the PCB board when the time comes.

- Plans for the upcoming sprint: Our future plans are to continue progress on the server, and prepare for when the PCB boards come in.
- ❖ Thomas Smith: Create Poster and get started on Final Report. Assist in software development as needed.
- ❖ Seth Jones: Ensure RasPi is set up properly for 1-wire system, one more in person soldering training session before arrival of PCB parts.
- ❖ Micheal Momot : Get production server running by any means necessary.
- ❖ Shubham Chauhan: Start working on the documentation of manual instructions with tom. Try to get the university ID issue resolved.
- ❖ Kailin Zheng: Finished the PCB work and wait for arrival and assembly of the PCB board, and prepare for the final report and meeting
- ❖ Samuel Sklar: Finish the PCB and complete order of parts, work with Seth and Kailin while they assemble board and integrate with RasPi and software team.

- Summary of weekly advisor meeting: Our meeting with the client this week focused on correcting the issues with the PCB board. The meeting went well, and we now have a plan moving forward.