EE/CprE/SE 491 WEEKLY REPORT #1

Report Period:
8/17/2020 – 8/31/2020

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 we focused on tagging up and resuming where we left off last semester, as well as coming up with a battle plan to accommodate for the extended effects of COVID19 that have pushed into this semester. We met with our client to communicate concerns as well as options moving forward. The results of those discussions will be outlined below

- Past sprint accomplishments : No direct stories were completed this sprint, due to a need to rebase and replan due to COVID19.
   ❖ **Thomas Smith** : Coordinated meeting between team and client. Drafted team report.
   ❖ **Seth Jones** : Assisted in coordinating meetings between team and client, and then met with client. Discussed the semester with the team.
   ❖ **Micheal Momo**t : Attended team meeting with client and set up dev environment
   ❖ **Shubham Chauhan** : Attended the team meeting and the client meeting.
   ❖ **Kailin Zheng:** Participated in the meeting between the team and client, and confirmed the new goals for the new semester.
   ❖ **Samuel Sklar** : Attended team and client meeting as well as reviewed work from past semester. Wrote up steps to replicate the dev environment/changes needed to get everything working.

- Pending issues : We have two of our six members offsite from ISU this semester. In addition, our product requires a physical presence to be worked on for certain aspects. Thus, we will need to formulate a plan to coordinate times to work on it in the TLA. We also need to get Samuel to get everyone up to date with our new local dev environment.
   ❖ **Thomas Smith** : Is currently working remotely, so will need to make plans to be on site when needed. Needs to setup new Dev Env locally
   ❖ **Seth Jones** : Needs to setup new Dev Env locally
   ❖ **Micheal Momot** : Needs to setup new Dev Env locally
   ❖ **Shubham Chauhan** : Needs to setup new Dev Env locally
   ❖ **Kailin Zheng** : Has current hardware for the door system, and needs to find time and resources to work on products in person. Needs to setup new Dev Env locally
   ❖ **Samuel Sklar** : Is currently working remotely, so will need to make plans to be on site when needed. Needs to knowledge transfer for new local Dev Env

- Individual contributions

Name	Individual Contributions	Hours this week	Hours cumulative
Thomas Smith	Coordinated meetings, drafted sprint report, and updated Trello	6	6

	board		
Seth Jones	Set up dev env on personal computer, attended meetings.	5	5
Micheal Momot	Set up dev env on personal computer, attended meetings	3	3
Shubham Chauhan	Set up the Developer environment on the local machine. Preparing the setup for the code taken from the previous team to improve and fix the bugs.	5	5
Kailin Zheng	Hardware design and parameter data is provided	6	6
Samuel Sklar	Wrote instructions on how to create dev env on personal comps	6	6

- Comments and extended discussion : We are still trying to compensate to adjust for the shorter semester and more difficult access to our product. No member was able to contribute to the product over the summer due to multiple factors related to personal matters. Thus, we plan to restructure our goals and future work in our backlog to adjust for these new circumstances.

- Plans for the upcoming sprint : Our future plans are to have everyone using the new Dev Environment that Samuel has headed. Afterwards we will stick two of our devs onto the web app to fill in missing functionality that we need to satisfy our clients requirements. Remaining devs will focus on the hardware aspect of the product. Samuel will head the Pi Board integration, with the remaining devs working on the one-wire and automated doors. We will also draft a list of needed parts to be ordered via Leeland Harker.
  ❖ Thomas Smith : Readjust new backlog and groom existing stories in Trello Board. Coordinate regular meeting time for standups and client meetings. Track metrics and write status reports, as well as coordinate, delegate, and assign tasks to self and others.
  ❖ Seth Jones : Will assist in bridging work between Web App devs and Hardware Devs
  ❖ Micheal Momot : Review demo and look into what it will take to add missing features not present. Will need to coordinate with Samuel to get up to speed. Will draft a list of parts needed for the web app.
  ❖ Shubham Chauhan : Review demo and look into what it will take to add missing GUI items for certain pages. Will need to work closely with Micheal

- ❖ Kailin Zheng : Will look into the circuit board implementation with the door system, and will begin to dive into the magnet system. Will draft list of needed hardware parts
- ❖ Samuel Sklar : Take time out to help others get up to date with the new dev environment, as well as look into pi board integration. Will draf list of needed hardware parts

- Summary of weekly advisor meeting : We talked with Lee about our path forward, and decided that a weekly meeting with him should be sufficient for communication. In addition, we decided to give him access to our Trello board to add to transparency of our development progress. He has agreed to help us get the parts we need, provided we give him a list of what we need. We plan to assemble that list by the end of this sprint.

Concerns related to COVID19's impact on the product was communicated with the client, in particular the concern of having to schedule and share a space with other teams, as the possibility of being blocked from working on the product now exists, and becomes more likely at the end often semester. The concern was acknowledged, but no contingencies were formed, so that is a risk we will have to take into consideration moving forward.