

Bi-Weekly Report #3

Summary:

The team has successfully done it's safety training with the client. The team members are accessing and analyzing the previous project documents in pairs to fasten up the process. The team website is up and running with the latest reports and design documents available. The communication between team mates is improving by taking different steps to ensure the maximum participation from each member.

Individual Contributions:

Samual Sklar:

- Summary: Did more research on circuit board designs used by the previous teams as well as we will need to make additions for our project. Talked to a circuit board design expert about how to modify existing circuit boards to fit new needs. Started to mock up some designs on paper, still a lot more research will need to be done in the coming weeks.
- Hours worked: 9
- Total Cumulative Hours: 27 hrs

Micheal Momot:

- Summary: Researching ATrack, the database software ISU uses for its students. We will need this if we want to be able to check if the student is in good standing. Looked through Node.js code of prior teams.
- Hours worked: 7
- Total Cumulative Hours: 23

Seth Jones:

- Summary: Did an in-depth look into the overall processes that prior teams have taken in their approach to a solution for this project. Used this as well as current knowledge and research to formulate our overall approach to a solution to this project. Completed the safety training and continued reviewing specific details of past projects related to i/o and other hardware/software interface concepts.
- Hours worked: 10 hrs
- Total Cumulative Hours: 26 hrs

Thomas Smith:

- Summary: Reviewed prior teams repository, created team calendar, and began populating Trello board. Worked prior teams repo into future vision of software architecture.
- Hours worked: 7 hrs
- Total Cumulative Hours: 29hrs

Kailin Zheng:

- Summary: Researched the projects the past teams have used. Most of them use one wire system and try to figure out how to implement it from a single control hub. Also find some source to understand the one wire system and check the hardware broad about the implementation of the wire system to all lockers.
- Hours worked: 7 hrs
- Total Cumulative Hours: 27hrs

Shubham Chauhan:

- Summary: Researched the programs the past teams have used. Most of the user end software is in React. Still working on planning a way to implement the code with our requirements in React. Software implementation has been done by past teams but needs to be evaluated and see how much of the code is reusable with our teams design process. Team website is being regularly updated with the new reports and designs.
- Hours worked: 7
- Total Cumulative Hours: 27

Pending Issues:

Over the last reporting period, we had a hard time meeting up on a regular basis. This was due to a multitude of things, from people not having notifications set on the team chat, to people forgetting meeting times. Steps are being taken to avoid this in the future, but it did affect our performance during this reporting period.

While not directly an issue, our lack of hardware experience is getting better, but still holds us up sometimes. This should get better with time, but shouldn't be ignored.

Plans:

To address the first issue listed above, we have all made sure we have notifications turned on, and we have created a team calendar to help with tracking important meeting times.

Our plan for the next reporting period is to start working with the raspberry pie that will serve as the server for our product. The hardware portion of our team will focus on setting the raspberry pi into the product, as well as acquiring any other attachments the raspberry pi may need. The software portion of the team will focus on loading the needed software onto the raspberry pi. We expect issues to pop up during this process, so we are taking a “small bite” off first by focusing on the raspberry pi portion of the product first.

Website:

<http://sddec20-21.sd.ece.iastate.edu/>