

EE/CprE/SE 492 WEEKLY REPORT 01

September 4th – September 15

Group number: 3

Project title: Small Equipment Locker

Client &/Advisor: Matthew Post

Team Members/Role: Laura Mejía, Ben Johnson, Camille Cramer, Ainara Machargo del Rio, and Jon González

o Weekly Summary

The team met up with the advisor on Thursday, September 7th, to discuss the progress of the locker installation project. According to the advisor, the entire locker system won't be ready for a demo at the end of the semester. However, we will have the opportunity to test our software with a single row of lockers. The advisor also mentioned that he would start placing items in that row to facilitate testing. Additionally, he provided us with dummy data that we can incorporate into our database.

o Past week accomplishments

This past week, we met with our advisor as a group and just as a group. With just our group, we spent time going through and getting familiar with where we left off last semester and ensuring we were still on track. We also discussed plans for the presentation and how to incorporate what we have worked on. The next steps we agreed on are to keep working on the UI to get it more consistent and to start putting the backend and the front end together.

o Pending issues

Jon Gonzalez: Communication between touchscreen and locker. Last semester, the touchscreen would successfully open and close the solenoid, and sometimes it would fail. With the new API given to us by Mr. Post, we will be implementing it into our UI for better communication between the Raspberry PI and the touchscreen.

O Individual contributions

NAME	Individual Contributions	Hours this week	HOURS cumulative
Laura Mejia	<ul style="list-style-type: none">● Familiarized myself with the admin page of the website.● Deleted the dummy data and input the information provided by the advisor.	4	4
Ben Johnson	<ul style="list-style-type: none">● Re-familiarized myself with where we left off in the fall● Investigated how to implement the database	4	4
Jon Gonzalez	<ul style="list-style-type: none">● Looked back on the last state of the UI for the touchscreen for the lockers● Made notes on what functionalities are missing and made a list for design choices for the UI	4	4
Ainara Machargo	<ul style="list-style-type: none">● Re-familiarized myself with SQL Code and GUI Codebase	4	4

	<ul style="list-style-type: none"> ● Researched how to best implement SQL code with the front-end ● Researched what frameworks to use to improve the GUI 		
Camille Cramer	<ul style="list-style-type: none"> ● Went through our plan of action that we made last semester to see where we left off and if we are still on track ● Adjusted our project timeline to better track our progress. 	4	4

o Plans for the upcoming week

- Laura Mejia: Divide the list of items provided by the advisor into categories for the websites.
- Ben Johnson: Meet with backend team to go over database plans
- Jon Gonzalez: Start adding code and improving the UI made last semester. Now that we have the API for the Raspberry PI that opens and closes the lockers, I will start implementing functionality to the UI so that the lockers can be opened using the touchscreen.
- Ainara: Work on adding correct dummy data to the SQL database to test that the database functions correctly.

o Summary of weekly advisor meeting (If applicable/optional)

In our meeting with our advisor, we discussed when we think we can start in-person testing

with other students. We are aiming for the middle of October. We also discussed ETG's progress on the lockers that our software will be implemented on. Mr. Post has informed us that while the mechanisms to actually open, close, and turn the light on are all functioning, only one row can open from communication from the current API. It has to do with how the lockers were wired, and Mr. Post believes that they can get it to work, but for now and probably for our demonstration, only one row will be working. We also discussed what type of equipment will be needed in the lockers and decided on a way to list them on the website.