EE/CprE/SE 491 WEEKLY REPORT 07

Apr 3 – Apr 9

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

(All the above information should be there in each weekly report. The format/color scheme etc need not be the same. However, please remove everything that is in a bracket from your final submission. These are just part of the template and need not be a part of the report.)

- **Weekly Summary**

The team met up with Mr. Post and discussed the progress of the project and how much we plan to get done before the end of the semester. As a team, our goal is to get a functioning prototype ready before the end of the semester. This would require us to have a functioning connection between the front end and the backend, an admin website, and a prototype GUI for the touch screen on the lockers. The backend team worked on getting the database onto the Pi, and the front end team started creating the GUI for the touch screen.

Past week accomplishments *(Please describe/summarize as to what was done, by whom, when and, collectively as a group. This should be about a paragraph or two in length. Bulleted points are acceptable as well. Please keep only your technical details related to your project. Figures, schematics, flow diagrams, pseudocode, and project related results are acceptable, but please ensure that they are legible (clear enough to read) and to provide an explanation. If researching a topic, please add a few details about what was learned and how it is relevant to the project. If two or more people worked on a single task, be sure to distinguish how each member contributed to the task. Specific details relating to the assistance provided to other members may be included here.* ***Do not include classwork, such as individual reflection assignments, and group meetings as part of your duties.)***

- Successfully demoed the Raspberry Pi working alongside the solenoid.
- Managed to build a MySQL database that will hold the data of our users and items.
- Started making the GUI for the touchscreen using Python.

Pending issues *(If applicable: Were there any unexpected complications? Please elaborate.)*

- Add the necessary code to the repository to achieve a round trip
- Test that the Server is successfully communicating with the Raspberry Pi and the team is able to open and close the solenoid from the website.
- Finish making the GUI for the touchscreen.

- **Individual contributions** *(Creating this section is optional, but it is **Required to include the "Hours Worked for the Week" and their "Total Cumulative Hours" for the project for each member somewhere relevant in your report. Your individual weekly hours should be at a minimum of 6-8 hours for this course. So please manage your time well. Also, ensure that individual contributions support your claim to the weekly hours. Be honest with the reports.**)*

NAME	Individual Contributions *(Quick list of contributions. This should be short.)*	Hours this week	HOURS cumulative
Jon González	• Worked on GUI for website, added a checkout page and a "back to home" button	2	24
Ben Johnson	• Planned out additional API endpoints • Started integrating the API with the database	2	23
Camille Cramer	• Decided on which database program to run on the Pi • Set up the database on the Pi, worked on starting to connect the API to the database	4	26
Ainara Machargo del Rio	• Did some backend implementation in SQL on the raspberry Pi. • Started making Pythong GUI for touchscrren.	5	29
Laura Mejia	• Worked on the website to implement a calendar reservation system similar to reserving a study room at Parks library.	3	23

- **Plans for the upcoming week** *(Please describe duties for the upcoming week for each member. What is(are) the task(s)?Who will contribute to it? Be as concise as possible.)*
  - Our goal is to have a front-end and back-end that can communicate with each other and send a request to open and close the locker. This means the backend team needs to be able to receive a request and open/close the locker doors remotely and that the frontend team needs to be able to hit a button and call the API endpoints to send that request.We want to test the database on the raspberry pi and finish creating a GUI on Python for the touchscreen.