EE/CPRE/SE 492 WEEKLY Report 5

3/12/20 – 4/2/20

Group Number: 09

Project: Inventory Locator Assistant

Client/Advisor: Leland Harker

Team Members/Role:

>*Alejandro Buentello: Hardware Manager*

>*Caleb Gehris: Communication Supervisor*

>*Jacob Linch: Software Manager*

>*Kurt Markham: Meeting Supervisor*

>*Erin Power: Planning and Time Management Supervisor*

>*Chris Rice: Database Manager*

Weekly Summary

Over the past two weeks, the team has continued testing the system as best we can and working out any kinks that arise during the testing. We have made a program to automatically add items to the database from Excel files that are already populated with data. We have also been transitioning to remote work and online team meetings in light of the university shutdown.

Past Week Accomplishments

- Alejandro Buentello:
  - Finished writing part of the display LED function so that coordinates close together wouldn't override displayed colors when flashing lights guided to the new coordinate
  - Fixed bug that would crash microprocessor
- Caleb Gehris:
  - Finalized a program to take in Excel files, parse them and add them to the database so that entries need not be done by hand.
- Jacob Linch:
  - Continued to work on the inventory website implementing React
  - Implemented website hosting over node.js and express
  - Continued Testing
- Kurt Markham:
  - Started writing documentation for construction instructions.
- Erin Power:
  - Finished LED test functions

- Chris Rice
  - Worked with Caleb to debug api errors when filling the database from Excel sheets

Pending Issues

  - Waiting on some additional data to fill the database
  - With the University moving to online and shutting down labs, we will likely be unable to properly install our system in the ETG.

Individual Contributions

Name	Hours Since Last Report	Cumulative Hours
Alejandro Buentello	3	87.5
Caleb Gehris	12	117
Jacob Linch	12	128
Kurt Markham	3	84
Erin Power	3	87
Chris Rice	6	114.5

Plans for Upcoming Week

- Alejandro Buentello:
  - Create a function that maps cabinet coordinates into LED ranges (ie drawer 1 is LED 0-3)
- Caleb Gehris:
  - Test functionality of the app and database
  - Work on creating a mock installation of the system for the presentation
- Jacob Linch:
  - Implement spreadsheet import logic on the website
  - Finish testing the website
  - Image import logic on the website
- Kurt Markham:
  - Work on instructions document.
- Erin Power:
  - Adjust documentation to reflect new deliverables
- Chris Rice:
  - Implement api endpoint to allow removing data from database
  - Work on image storage with server

Summary of Weekly Advisor Meeting

We met with our advisor over WebEx to discuss the changes to our project due to the closure of the University. We came to the conclusion that not much will change for our deliverables, except that we will be unable to install the system in the ETG shop and will instead leave detailed instructions on how to set it up once the University reopens. We will also not be able to test the system in the actual environment it will be functioning in so there may be bugs or issues that will not be known until the system is installed.