EE/CPRE/SE 492 WEEKLY Report 4

2/27/20 – 3/12/20

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 work on several aspects of our project. We have added an additional search api endpoint to allow for more dynamic searches by the user. We made good progress on the react app that will give users another way to access and use the system.

Past Week Accomplishments

- Alejandro Buentello
    - Worked on a bug that would crash the code if an incorrectly formatted string was passed.
    - Rewrote part of the display LED function so that coordinates close together wouldn't override displayed colors when flashing lights guided to the new coordinate
- Caleb Gehris
    - Created a program to read data entries from a spreadsheet file and add the entries to the database
    - Updated Android app api to work with new database
- Jacob Linch
    - Continued to work on the inventory website implementing React
    - Worked on updating the api for the Android application
    - Worked on the presentation
- Kurt Markham
    - Worked on database api
    - Setup the presentation layout

- Erin Power
  - Reviewed LED testing code

- Chris Rice
  - Fixed a bug in the find/name api endpoint that was preventing proper functionality to the frontend team.
  - Fully implemented a new search endpoint to allow for searches by any of the data parameters that we store.
  - Helped with final hardware selection for tablet

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	84.5
Caleb Gehris	8	105
Jacob Linch	21	116
Kurt Markham	3	82
Erin Power	3	84
Chris Rice	9	108.5

Plans for Upcoming Week

- Alejandro Buentello:
  - Fix bug that would crash microprocessor
  - Create a function that maps cabinet coordinates into LED ranges (ie drawer 1 is LED 0-3)
- Caleb Gehris:
  - Continue work on a screen on the app to show the user the location of the queried part within its drawer.
  - Update Android app to show the additional information provided in the database
- Jacob Linch:
  - Continue to update the Android application to communicate with the new server and API
  - Finish the inventory website
- Kurt Markham:
  - Work on instructions and post-completion documentation

- Erin Power:
    - Improve code for coordinate testing.
    - Review code for coordinate testing.
- Chris Rice:
    - Continues improving API and adding additional endpoints as needed by the frontend team.
    - Make sure the data that we have been provided is able to be properly uploaded to the database.

Summary of Weekly Advisor Meeting

Our group did not meet with our advisor during the time frame of this report.