

EE/CPRE/SE 492 WEEKLY Report 3

2/13/20 – 2/27/20

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 updated the basic implementation of the server api. The server is now persistently running, and able to post and get parts from the database, as well as simple searches. With this development we will now focus on the Android app that will be used to search for items and make sure it functions correctly and returns expected values.

Past Week Accomplishments

- Alejandro Buentello
 - Tackling the comments on the microprocessor code as well as implement more of the To Dos left
- Caleb Gehris
 - Continued working on a screen on the app to show the user the location of the queried part within its drawer.
 - Reviewed Android app code
 - Created a basic parser for queries on the Android app
- Jacob Linch
 - Worked on starting inventory website and update api for Android Application
- Kurt Markham
 - Created prototype design and parts list.
 - Connected to server and database.
- Erin Power
 - Reviewed LED testing code

- Chris Rice
 - Fixed several bugs preventing the post method from working as intended. One major bug was that MySQL prevents the use of parameters as table or column names in queries(to prevent MySQL Injection), which prevented the use of abstracted functions.
 - Added additional get endpoint that employs left joins, relegated the old get endpoint to be used only for testing purposes.
 - Converted SearchbyName to work with a new schema.

Pending Issues

- Waiting on some data to fill the database

Individual Contributions

Name	Hours Since Last Report	Cumulative Hours
Alejandro Buentello	8	81.5
Caleb Gehris	14	97
Jacob Linch	15	95
Kurt Markham	3	79
Erin Power	6	81
Chris Rice	12	99.5

Plans for Upcoming Week

- Alejandro Buentello:
 - Finalize the changes to the Microprocessor.
 - Improve the Coordinate test
 - 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.
 - Work on/test queries on the Android app
- Jacob Linch:
 - Continue to update the Android application to communicate with the new server and API
 - Continue working on inventory website
 - Fix any bug related to new server

- Kurt Markham:
 - Purchase parts and construct prototype.
 - Set up physical testing to be performed using prototype.
 - Update design document with new/corrected information.
 - Work on video peer evaluation.
- Erin Power:
 - Improve code for coordinate testing.
 - Review code for coordinate testing.
- Chris Rice:
 - Expand API to better fit needs of front-end team.
 - Implement more complex and detailed search functionality to better fit client use-cases.

Summary of Weekly Advisor Meeting

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