

EE/CprE/SE 491 Weekly Report 5

10/27/19-11/2/19

Group Number: 09

Project: Inventory Locator Assistant

Client/Advisor: Leland Harker

Team Members/Role:

Alejandro Buentello: Hardware Manager

Caleb Gehris: Communications Supervisor

Jacob Linch: Software Manager

Kurt Markham: Meeting Supervisor

Erin Power: Planning and Time Management Supervisor

Chris Rice: Database Manager

Weekly Summary

We got the communication between the Raspberry Pi and the microcontrollers working. We started test implementations of the different communication types we researched previously. Started working on a frontend for our application.

Past Week Accomplishments

- Communication between lights and controller
- Started android application for controlling the lights
- Figured out the type of database we want to run

Pending Issues

- Set static IP addresses for the microcontrollers and Raspberry Pi
- Figure out if we want the database to be local or cloud based
- Implementation of the database

Individual Contributions

Name	Hours Since Last Report	Cumulative Hours
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Alejandro Buentello	8	39.5
Caleb Gehris	8	38
Jacob Linch	8	38
Kurt Markham	8	40.5
Erin Power	8.5	38.5
Chris Rice	8	39.5

Plans for Upcoming Week

Alejandro Buentello: Research voice integration, continue to test and implement the hardware

Caleb Gheris: Communicate with client, work on communication between hardware

Jacob Linch: Communication between pi and controllers. Front end implementation

Kurt Markham: Research how to communicate between Pi and microcontrollers, work on cloud database

Erin Power: Continue to implement LED's and microcontrollers as well as test the implementation

Chris Rice: Research cloud database and communicate with ETG to get that up and running

Summary of Weekly Advisor Meeting

- Server needs to be hosted on ISU servers so if the PI dies the database stays
- Database should work for any ETG future usage
- Use MySQL on the ISU servers
- Think about how to store pictures and other data on the database