

EE/CPRE/SE 492 WEEKLY Report 2

1/30/20 – 2/13/20

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 accomplished several important steps in the project. One of these accomplishments was refactoring and deploying the api/database code from a raspberry pi to a Ubuntu server through the university. This involved switching away from sqlite to use MySQL Server instead, as well as extending the database schema and modifying api needs. Our team also implemented voice to text api input on the Android application in a way that should be more streamlined for the user.

Past Week Accomplishments

- Alejandro Buentello
 - Created code for LED test
- Caleb Gehris
 - Helped fully implement voice input and general architecture design.
 - Helped Chris with ideas for database schema.
 - Began working on a screen on the app to show the user the location of the queried part within its drawer.
- Jacob Linch
 - Helped fully implement voice input and general architecture design.
- Kurt Markham
 - Worked on concatenating spreadsheet data.
 - Updated parts of design document

- Erin Power
 - Helped review code for LED test
 - Updated team website to include new plans.
 - Updated design document to remove Raspberry Pi.
- Chris Rice
 - Expanded and refactored sql schema to better fit the information provided to us by client.
 - Modified the existing flask api to fit the new database schema. Wrote queries to specifically fit each api endpoint, including checking if data already exists in the database before inserts.
 - Deployed database and api onto the new iastate server that has been provided to our team.

Pending Issues

- Waiting on some data to fill the database

Individual Contributions

Name	Hours Since Last Report	Cumulative Hours
Alejandro Buentello	3	73.5
Caleb Gehris	13	83
Jacob Linch	7	80
Kurt Markham	5	76
Erin Power	5	75
Chris Rice	15	87.5

Plans for Upcoming Week

- Alejandro Buentello:
 - Work on code for coordinate testing.
- Caleb Gehris:
 - Continue work on a screen on the app to show the user the location of the queried part within its drawer.
 - Do code review of current implementations and work on documentation
- Jacob Linch:
 - Update the Android application to communicate with the new server and API
 - Update the add item page/make an inventory page for input of data
- Kurt Markham:
 - Develop a prototype setup to test LED strip functionality and accuracy.

- Erin Power:
 - Work on code for coordinate testing.
 - Review code for coordinate testing.
- Chris Rice:
 - Expand API to better fit needs of front-end team.
 - Attempt to improve api architecture to help improve maintainability and extensibility.

Summary of Weekly Advisor Meeting

1. Double checked whether clients desired database would contain all available data or just relevant data to our project. Decided to include all available data.