Sprint 5 Report

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Class: Senior Design
Subject: Sprint 4 Report
Sponsor: L-3: June Alexander-Knight

Backlog

Completed

- Implement client code on Raspberry Pi/laptop
- Refine RESTful web service on EC2 server
- Send JSON from iPhone to server
- Connect iOS framework to UI

Remaining

- Test web service
- Test client code

Christmas Light Controller Progress

Austin Wentz

EC2 Web Service Implementation

For the web service, we are using Flask which is a microframework for Python web development. Song and light sequencing information is stored in a sqlite database. Retrieval and adding/updating information is done through GET and POST commands. For example, to retrieve a list of available songs to play, just send a GET request at the /songs URL.

Client Application Implementation

The client application is implemented in Python also. The application has several different modes. One mode is to change the brightness of the lights based upon values on the web service. The values can be modified via mobile devices. Another mode is to receive commands to play songs and/or light sequences.

iPhone App Progress

Jordan Doell

For the app, I have included Figure 1 below. I updated the layouts a little bit to simplify things. I am still working on getting the app to flow from James' framework to my interface that I have made. Figure 1 shows what it should eventually look like. All of the first 4 views won't have to be brought up each time the app starts up once the base station gets added initially. The main view with channels and songs is pretty self-explanatory. Once in the channel view, it should send data to the server when a slider has been changed. It will send an array of all the sliders values to the server. For the songs, they will be hard coded for now. When a song is tapped, it should send data to the server letting it know which song to begin playing.

I am planning to meet with James or Josh next week to hopefully get everything figured out since I am a little behind. Most of my time this sprint has gone to researching how to accomplish what I need to do in Xcode. Austin has been working on the JSON data for me to send to the server, so once he gets that figured out and I get the layouts connected, hopefully we can begin some testing.

Figure 1: