492 - Group 11

Auto Window Blinds

Bi-Weekly Report 4

10/11-10/27
Client: Lee Harker
Faculty Advisor: Lee Harker

Team Members:

Andrew Deick - Front-end Software Lead
Caleb Townsend - Hardware Lead
Daniel Andrews - Team Lead
Hieu Nguyen - Communication Lead
Jacob Nett - Back-end Software Lead
Logan Shada - Design Lead

Past Week Accomplishments

- Frontend - Andrew & Daniel
    - Location Services: Implemented into frontend
    - Research in CORS (Front-End to Back-End connectivity)
    - User Authentication synced with Google
- Backend - Jacob
    - Use logs
    - CORS connectivity

- Hardware - HW team - Logan, Hieu, and Caleb
    - Re-built prototype
    - Found parts and ordered them
    - Stepper motor design
    - Found a zero error PCB design
    - It works! (@12V and 1Amp) Turns with the stepper control, maybe need piece to attach tubing to stepper motor turner

Pending Issues

- Need more parts to stabilize connections
- Need more options for tubing attachment
- PCB needs to work with a stepper motor controller and not a standard motor controller

Individual Contributions

Team Member	**Contribution: description of what you did (last 2 weeks)**	**Last 2 weeks (hours)**	**Total (hours)** Since 9/5
Daniel Andrews	• Location check into frontend • Resolved some frontend issues	11	39
Andrew Deick	• Troubleshooting CORS error • Implement Authentication code on server	8	38
Jacob Nett	• Back end work • Code for stepper	10	42
Hieu Nguyen		0	25
Logan Shada	• Worked with new components to find stable circuit • Found new parts to order • Worked with PCB design • Looked into materials for housing	8	33
Caleb Townsend	• Trouble-shooting stepper motor connection and design • Meetings (~4) (~4hrs in past 2 wks) • Discussion on design and parts • Discovery of how to work the stepper motor • Got the stepper motor to work!	10	27

Plans for coming weeks

- Miscellaneous - Daniel
  - Update team website
- Frontend - Daniel & Andrew
  - Location services: Update UI for ease of understanding
  - Admin Page
- Backend - Jacob
  - Motor control updates
  - Control Queue
- Hardware - Logan, Caleb, & Hieu

- Order parts and PCB
- Finalize PCB design
- Create lasting connections
- Find dimensions needed for housing
- Minimize wire connections and clean up circuit