492 - Group 11

Auto Window Blinds

Bi-Weekly Report 5

10/28-11/08
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: UI updated
  - User Authentication synced with Google and location access
  - Developed Admin Page to display past actions and allow for banning users
- Backend - Jacob
  - Use logs
  - CORS connectivity

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

- We have the schematic/ finish for the old PCB but no longer need to make a PCB due to new part not needed.
- Power bank was create and is working with the arduino and stepper motor driver.

Pending Issues

- We need to update the Front-End via tables from the back-end

Individual Contributions

Team Member	Contribution: description of what you did (last 2 weeks)	Last 2 weeks (hours)	Total (hours) Since 11/08
Daniel Andrews	● Location check UI changes ● Resolved some frontend issues ● Work with hardware research/decisions ● Updated team website	10	49
Andrew Deick	● Working with Jacob on Front-End to Back-end API endpoints ● Create admin page for showing past action logs ● Research into admin roles for user	12	50
Jacob Nett	● Added table for banned users ● Added table for admin ● Reseach on how to use eeprom and power sensor for state saving	12	56
Hieu Nguyen	● Didnt update previous week (8hr) ○ connection/battery in TLA ● Work in lab (power battery) ● Work in lab (connection wiring) ● Work in lab (research on how to have cable management)	18	43
Logan Shada	● Worked with new components to find stable circuit ● Found new parts to order ● Looked into materials for housing ● Worked with batteries ● 3D design	6	39
Caleb Townsend	● Assembling prototype ● Research on parts ● Research on plastic box and 3d modeling software - autodesk 360 fusion	13	40

Plans for coming weeks
● Miscellaneous - Daniel
○ Update team website

- Frontend - Daniel & Andrew
  - Admin Page updated with backend tables
- Backend - Jacob
  - Motor control updates
  - Control Queue
- Hardware - Logan, Caleb, & Hieu
  - Creating a case
  - Organize wire to make it neat.
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https://git.ece.iastate.edu/sd/sddec22-11