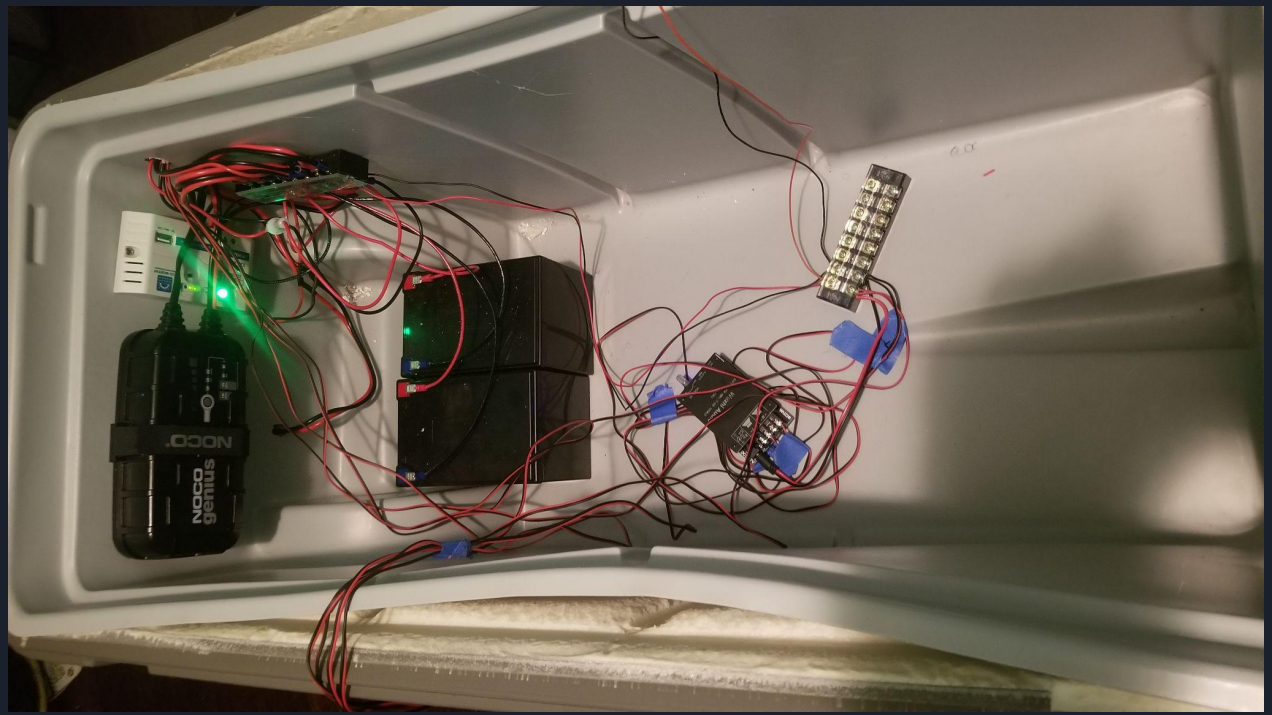
Senior Design Smart Cooler

Week 5 Sep 21- Sep 27

Progress made during the week

- Amp and Speakers were tested
- Raspberry Pi was attempted to run off 12V batteries
- Mobile app redesign progress

Speaker Wiring

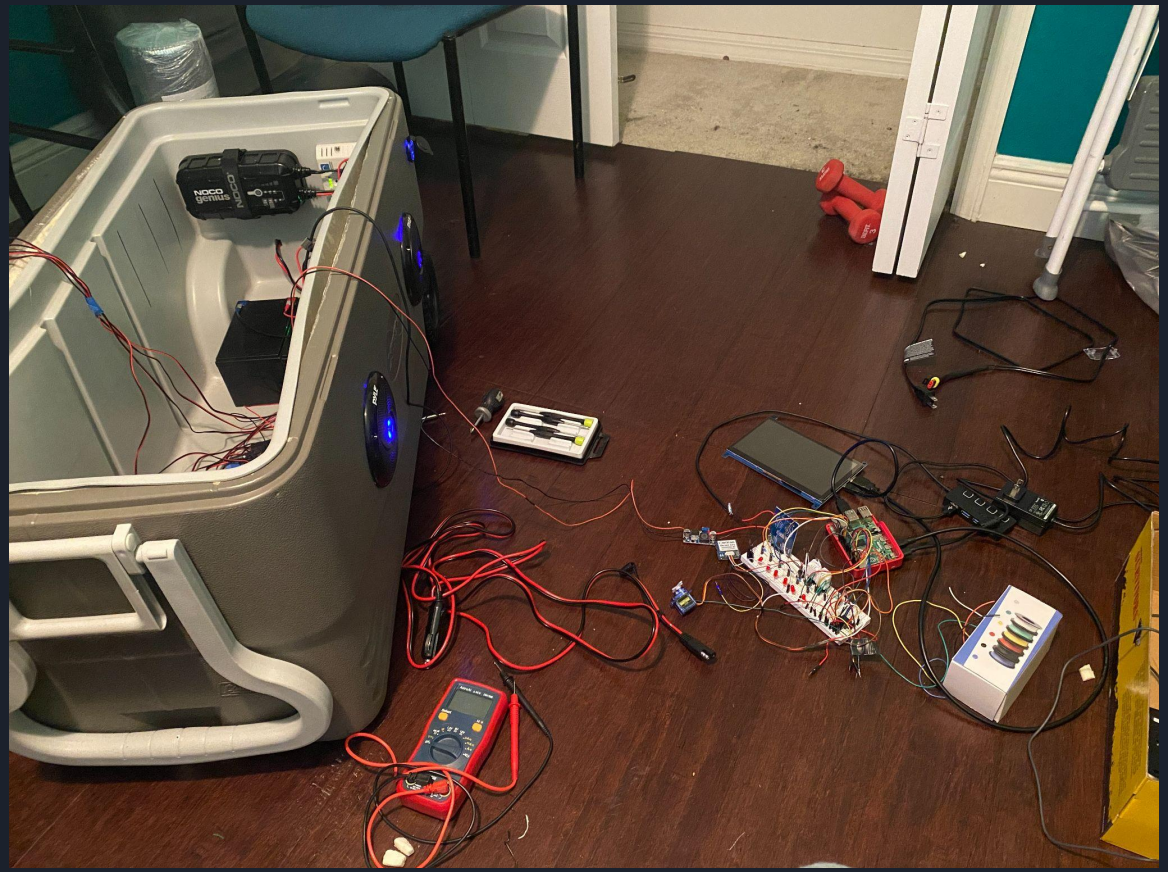


Speakers Working

The best thing about these speakers is the light up blue during operation which makes it very clear when they are powered.

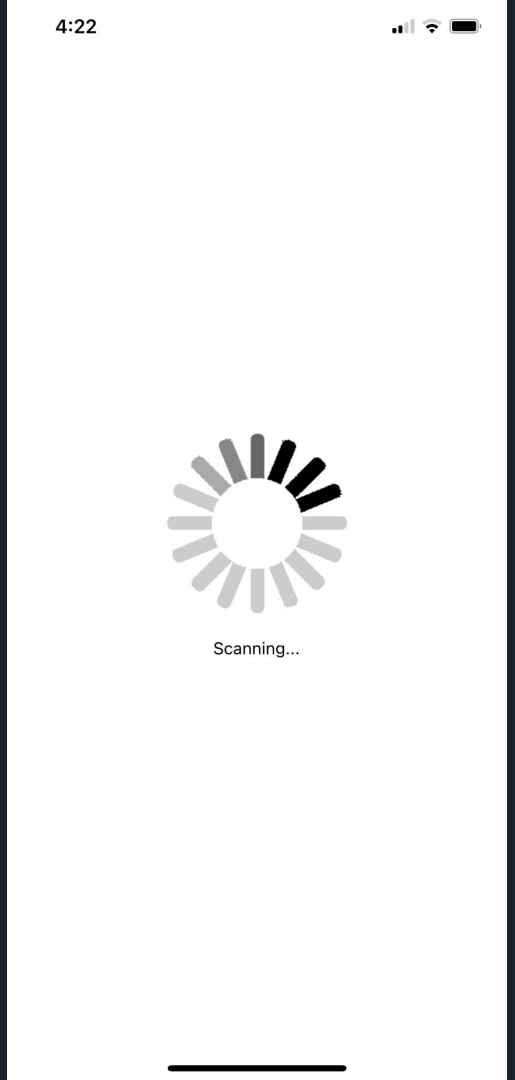
Overall Functionality

Powering all the systems we have off the batteries and confirming operation



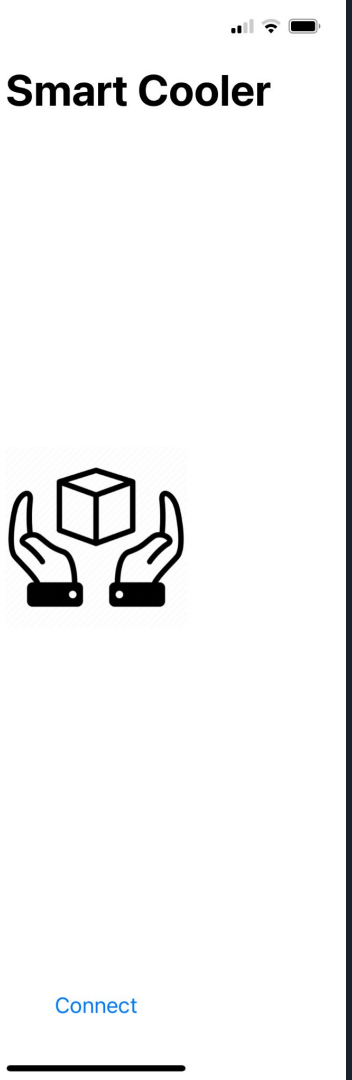
Scanning for Smart Cooler Screen

- The screen starts by scanning for The Smart Cooler UUID
- The gif in the middle is animated to show progress is happening
- Once connected, the app automatically transitions to the next screen



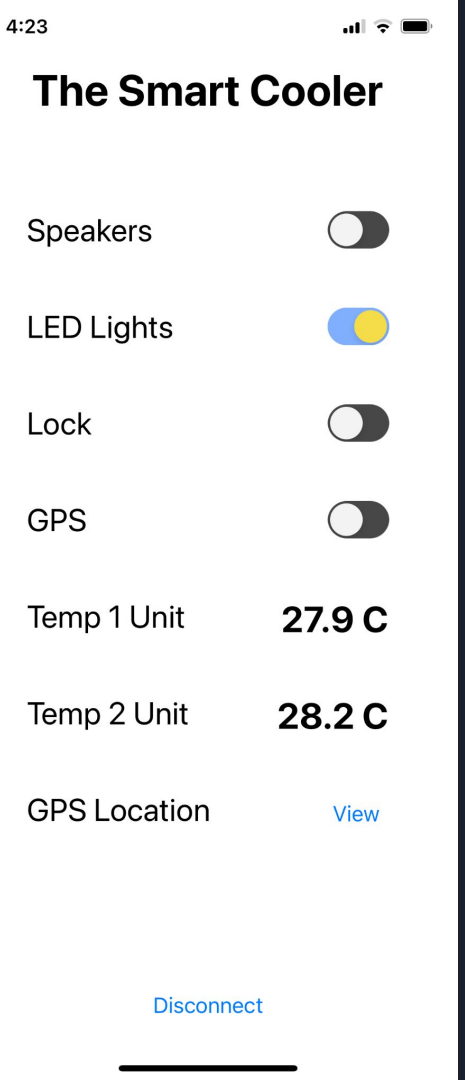
Connect to Device Screen

- In this screen, The Smart Cooler has been found.
- To connect to the device, the bottom button allows for connection to be made.
- The middle image is placeholder.



Connected Screen

- Once connected, different settings are shown.
- Switches are used to turn features on and off.
- The app retrieves temperature data and displays it in real time.
- The GPS location view will go to a separate screen to show location on google maps.
- The option to disconnect is at the bottom.



Goals for next week

Here are the priorities for next week:

- Wire Solar panel and confirm charging
- Final fit for Speakers
- Secure Batteries and Solar Panel
- Read sensor data to app
- Get GPS position displaying on appDisplay GPS location in google maps
- Get setting screen working
- Get RFID working