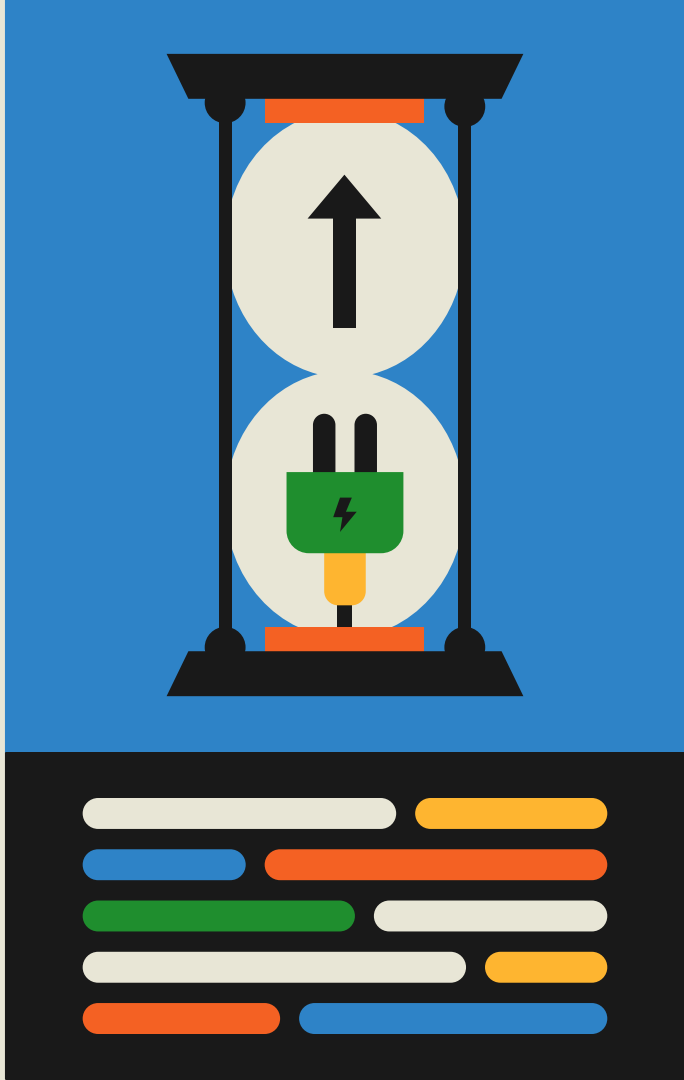
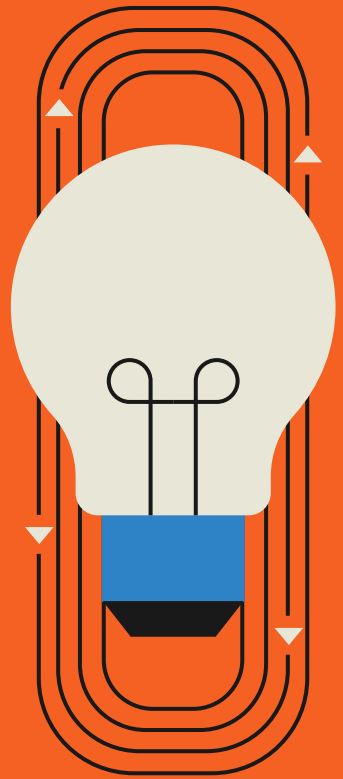
The PyClock

Anna Rogers, Alison Langer, Yarra Abozaed
CPE 3280





AGENDA

01 **Project Goals**

Why did we pick this project?

02 **Proposed Features + Specs**

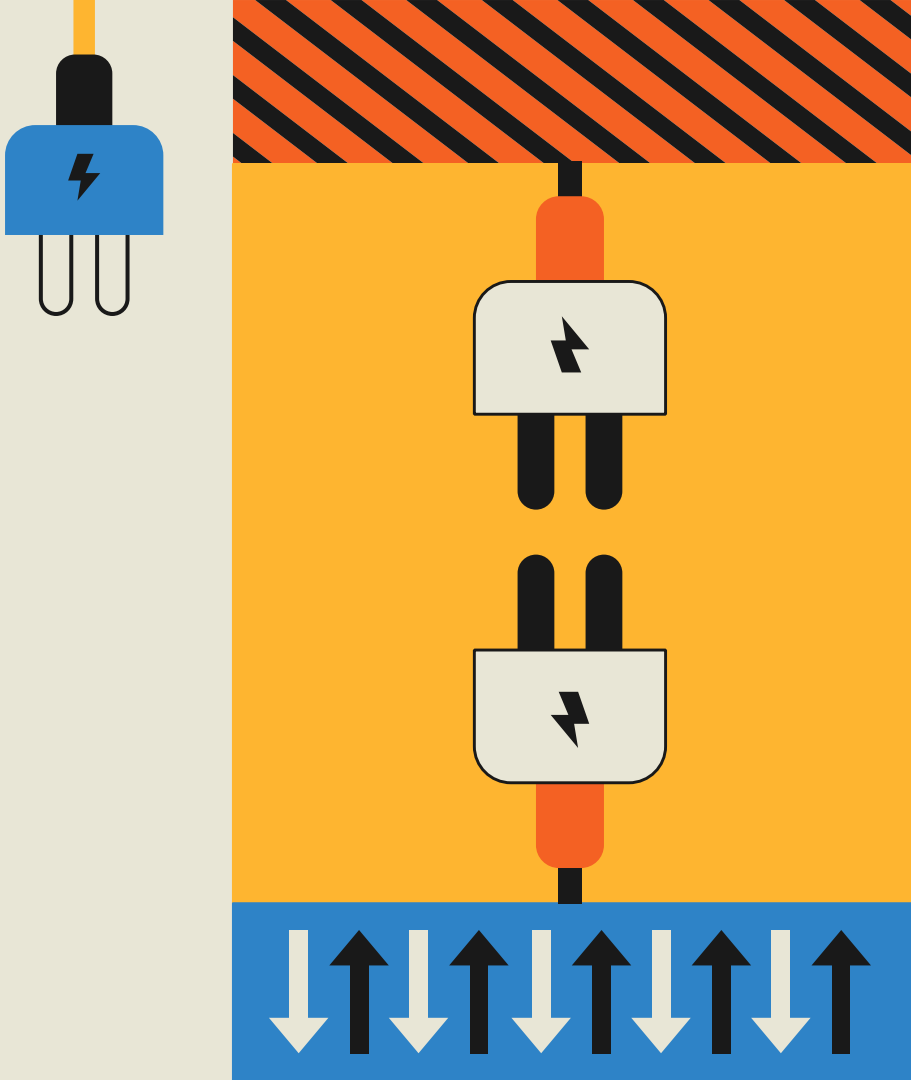
What we promised to deliver

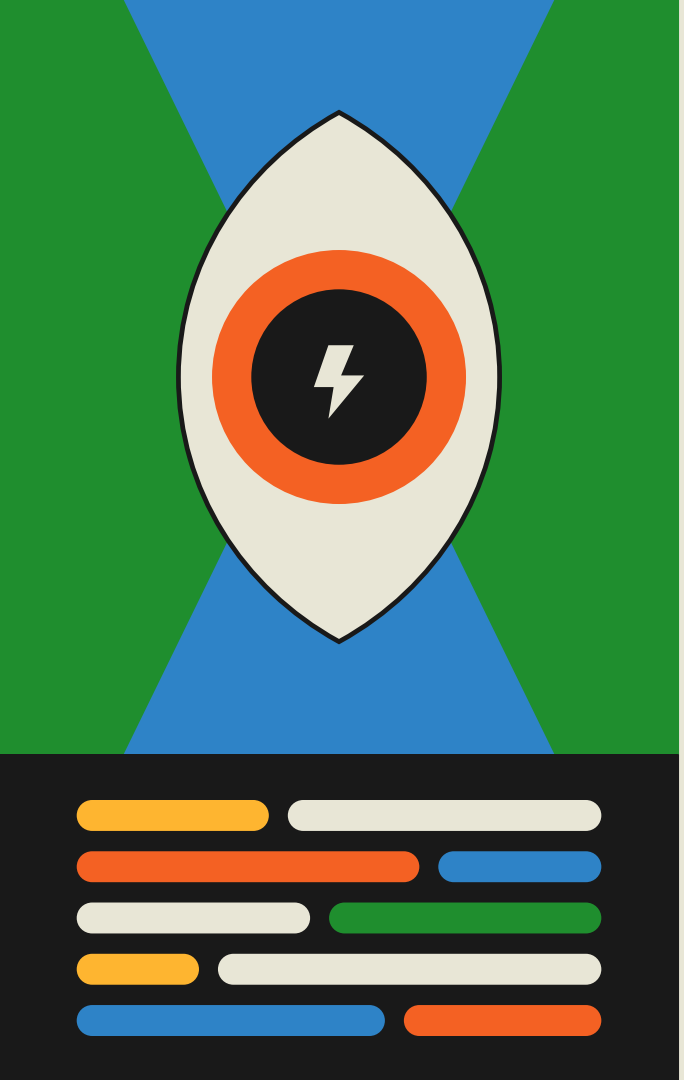
03 **Final Product**

What we delivered

01

Project Goals





PROJECT GOALS

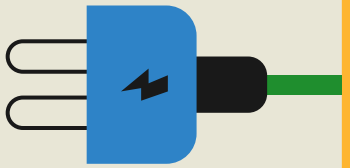
Our system will be marketed for people who are hearing impaired. Our alarm clock will include:

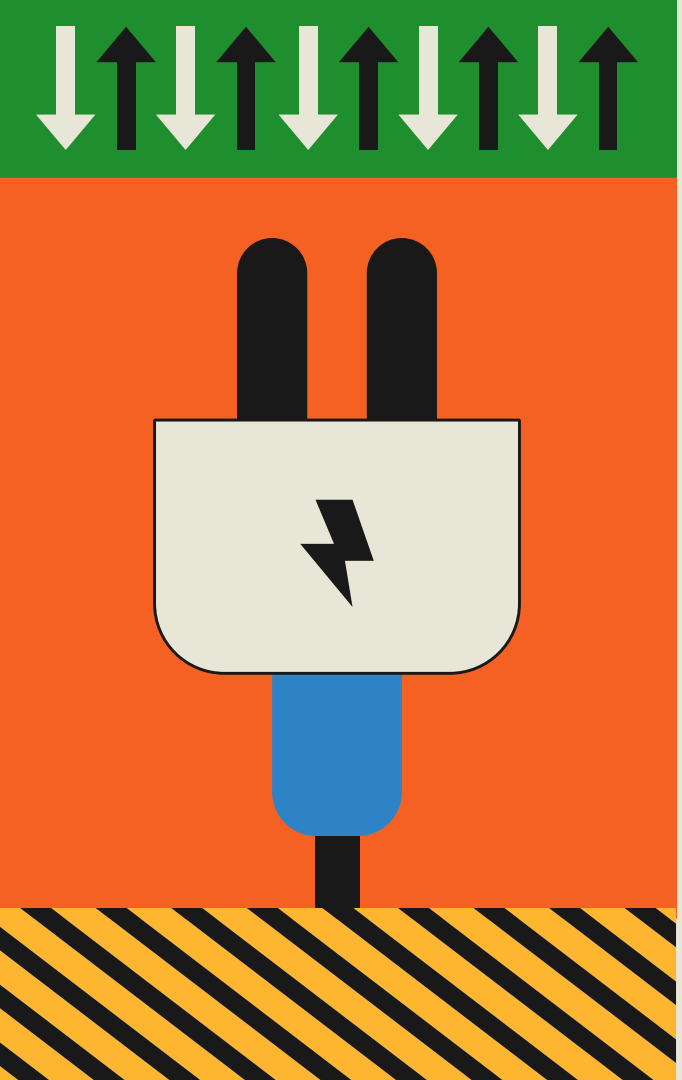
- A display screen so the user can see the time
- An LED backing that automatically changes color depending on the time of day.
- Buttons to stop the alarm and buttons to allow the user to adjust the audio output.
- When the alarm goes off it will trigger preprogrammed audio, flashing lights and a buzzer.

These features will be useful for all users, both hearing impaired and not.
The flashing lights and buzzer will allow someone who is hearing impaired to see or feel their alarm

Key Features

- Buzzer (for sound)
- Buzzer (for vibration)
- LED backing
- Alarm-off button
- OLED screen display
- Joystick to adjust the alarm time and user's starting time





02

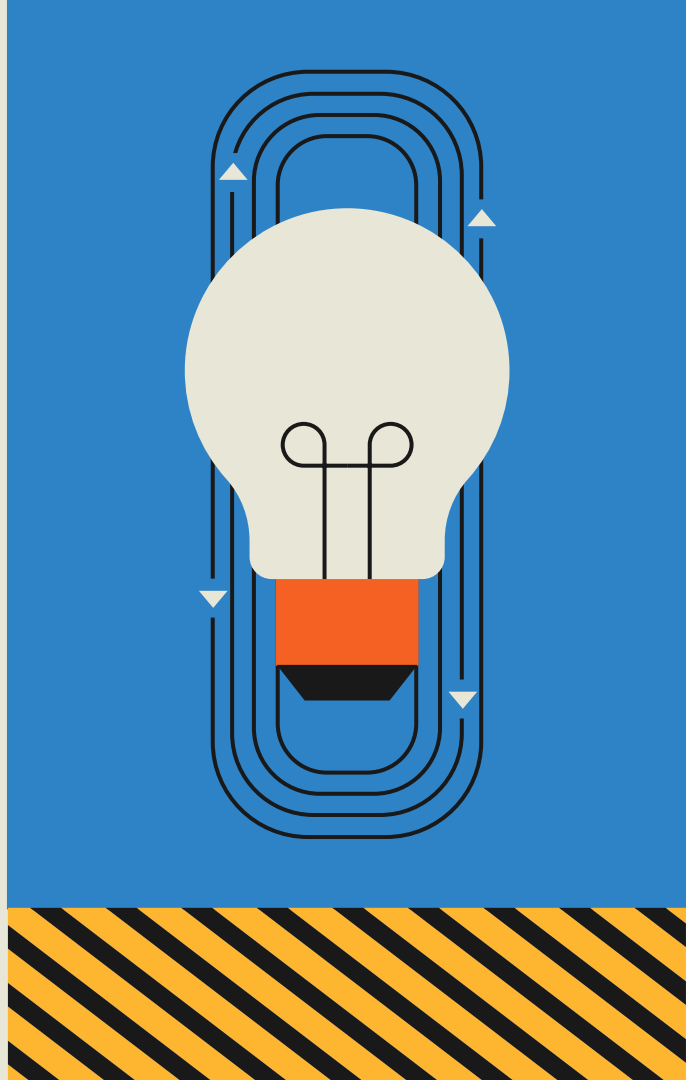
Proposed Features and Specifications

Specifications

The PyClock shall have a display screen so the user can tell the time.
The PyClock should have an LED backing that automatically changes depending on what time of day it is.
The PyClock shall trigger an audio to signal when a user-set alarm goes off
The PyClock shall have button inputs will allow the user to manually adjust when the alarm goes off.
The PyClock shall have a button the stops the alarm.
The PyClock shall have a buzzer that goes off when in alarm mode.

03

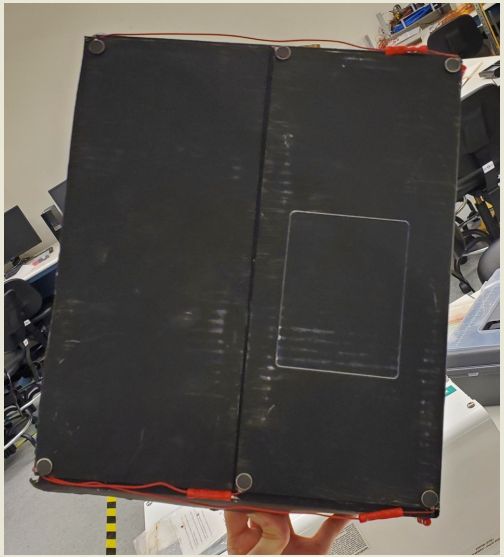
Final Product



Buzzer (for sound)

Song Plays During Alarm

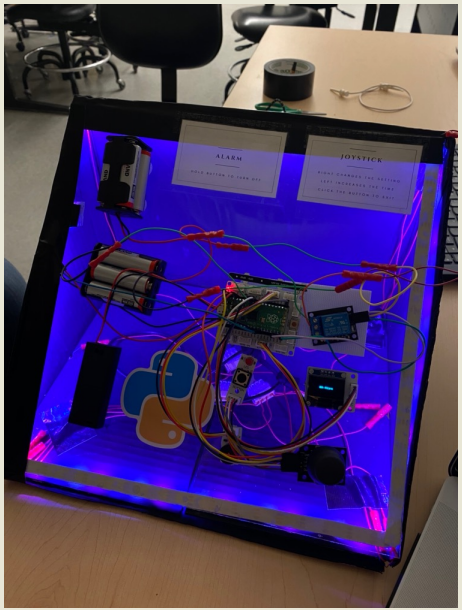
Buzzer (for vibration)



Buzzers Are On During Alarms

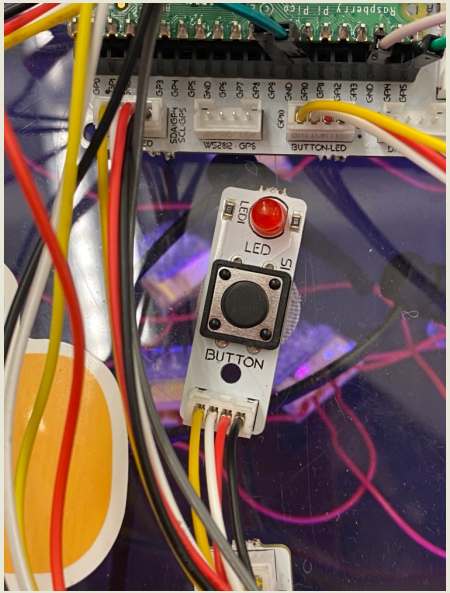
LED Backing

Alarm Mode



Morning/Evening/Night Colors

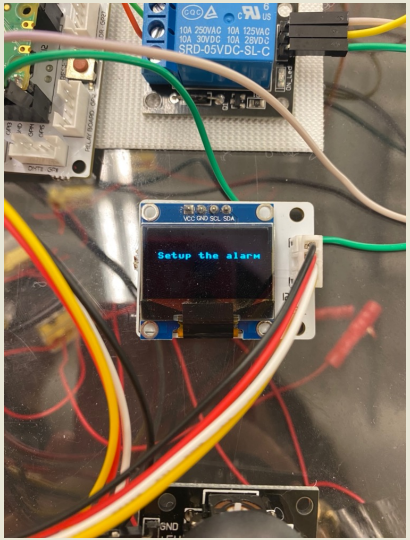
Alarm-Off Button



Hold Button To Stop Alarm

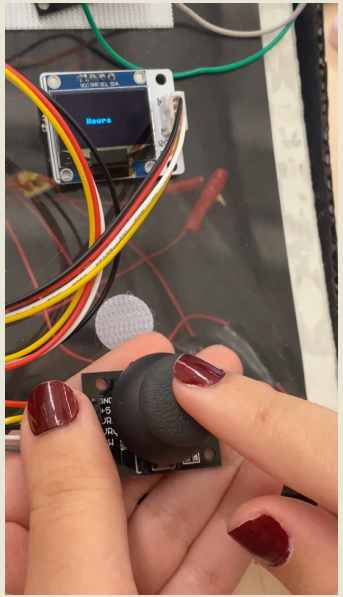
OLED Screen display

Displays The Current Time

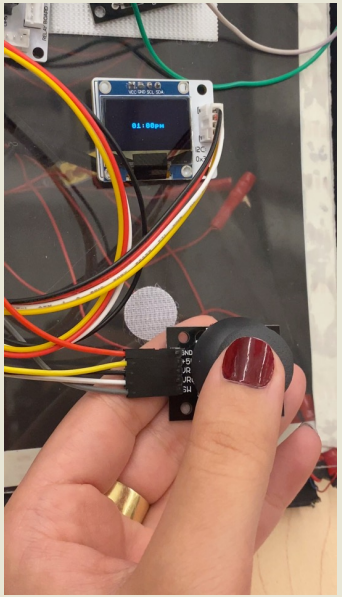


UI For User To Change/Set Alarm

Joystick

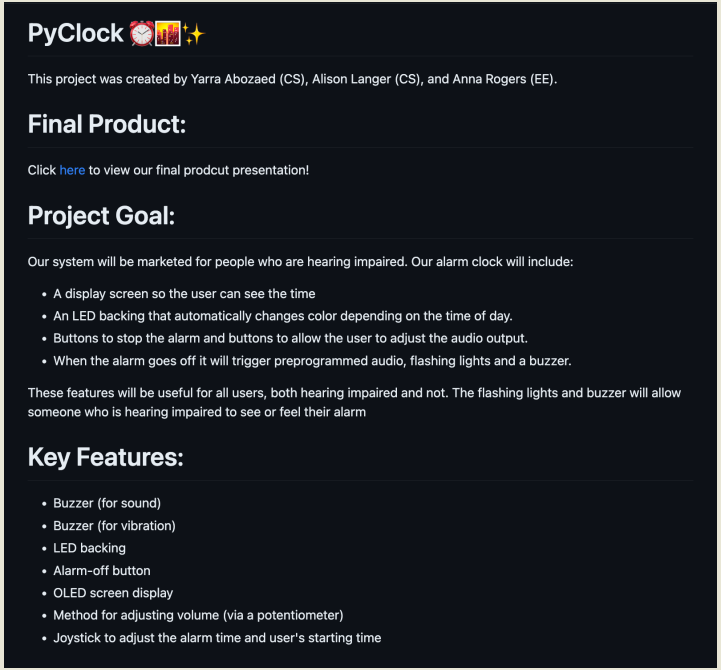


Change Hours/Minutes/AM-PM



Enter/Exit Alarm Setup Mode

GitHub:
https://github.com/Yarrabozaed/MC-Clock



PyClock ⏰🌇✨

This project was created by Yarra Abozaed (CS), Alison Langer (CS), and Anna Rogers (EE).

Final Product:

Click here to view our final prodcut presentation!

Project Goal:

Our system will be marketed for people who are hearing impaired. Our alarm clock will include:

- A display screen so the user can see the time
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Key Features:

- Buzzer (for sound)
- Buzzer (for vibration)
- LED backing
- Alarm-off button
- OLED screen display
- Method for adjusting volume (via a potentiometer)
- Joystick to adjust the alarm time and user's starting time

Questions?