

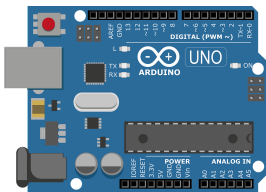
# The Most Annoying Alarm Clock

We all already hate alarms. Why not hate them more? This alarm will blare loud sounds, and flash bright LEDs to make sure you really wake up and confirm that you're ready for the

## Tasks:

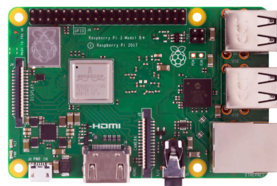
### ARDUINO

Takes input from the RPi and uses the input to determine blinking of LED's.



### Raspberry Pi

Takes input from the Android app and sends data over to the Arduino, and takes some input from the Arduino to start playing sounds.

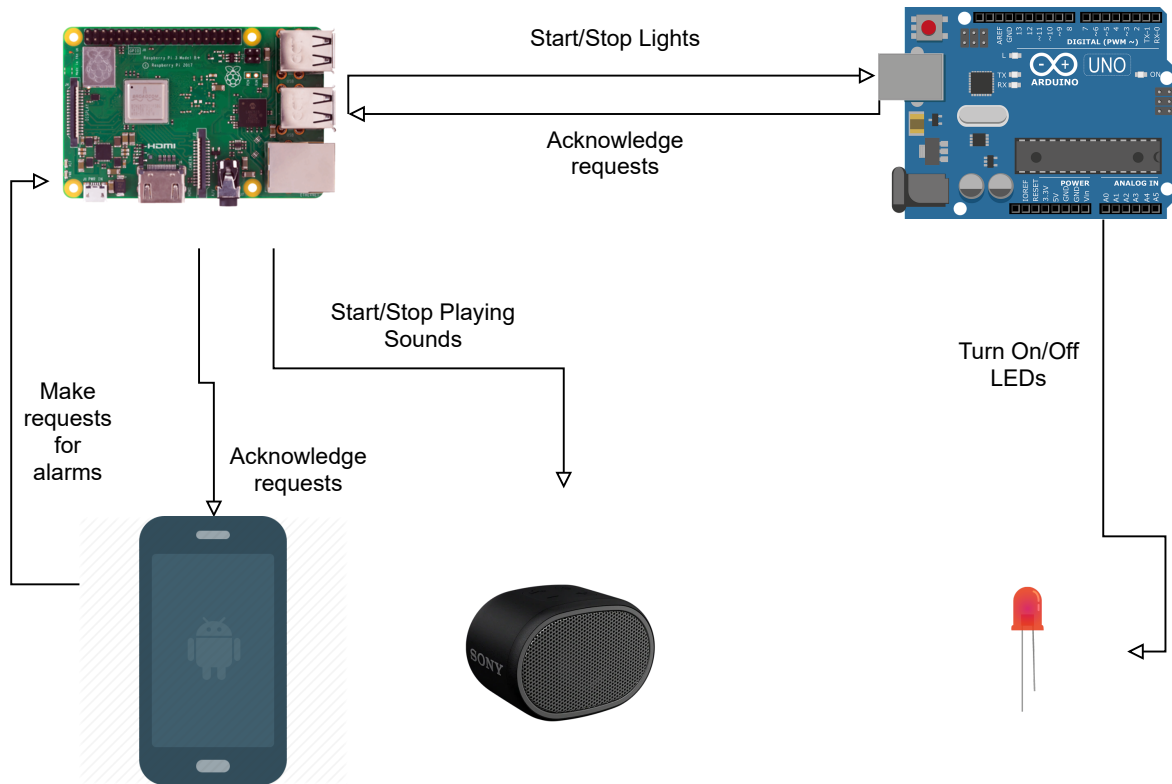


### Mobile Device

Sends data to the Raspberry Pi. Connects via WiFi Hotspot.



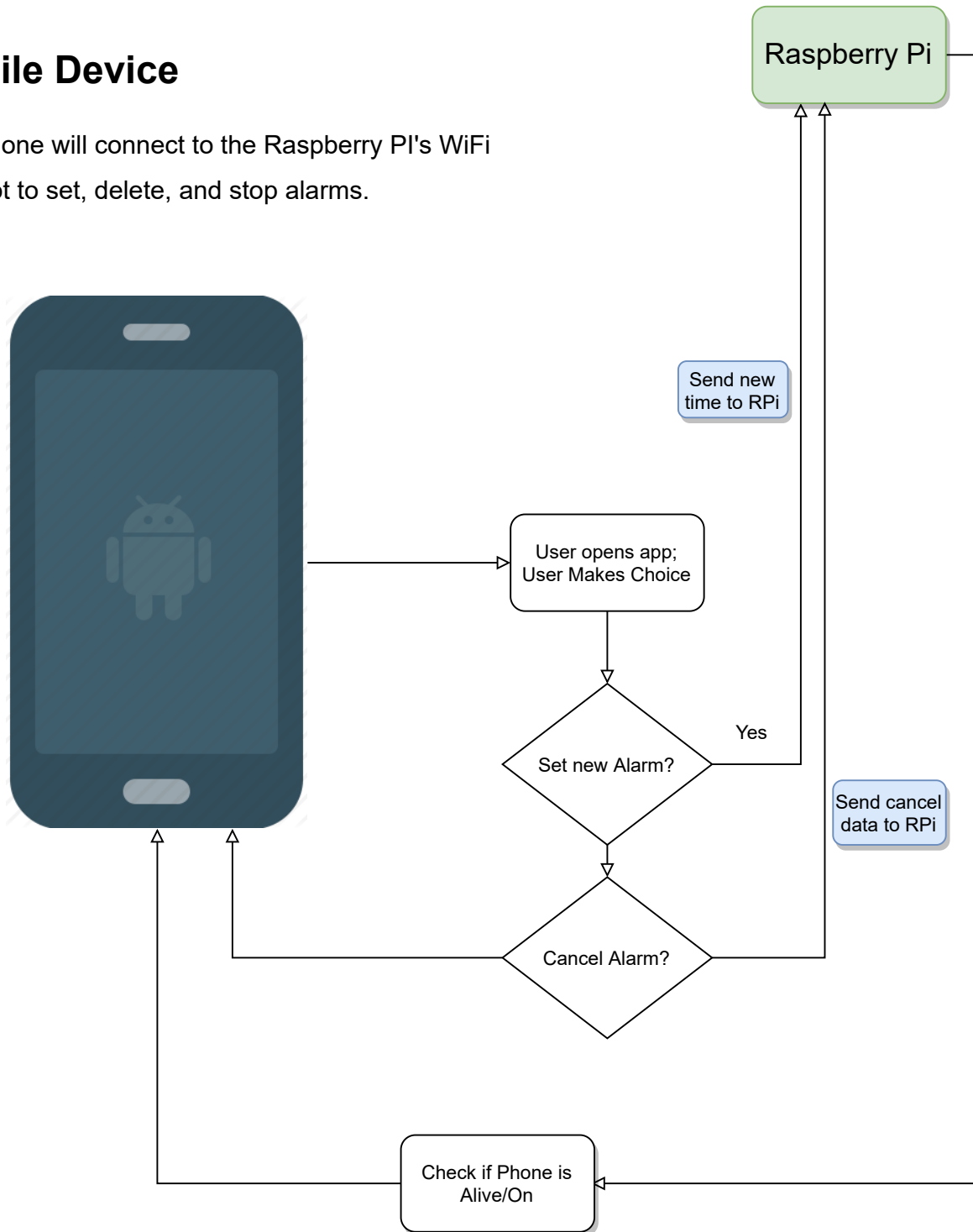
# Flowchart (Simplified):



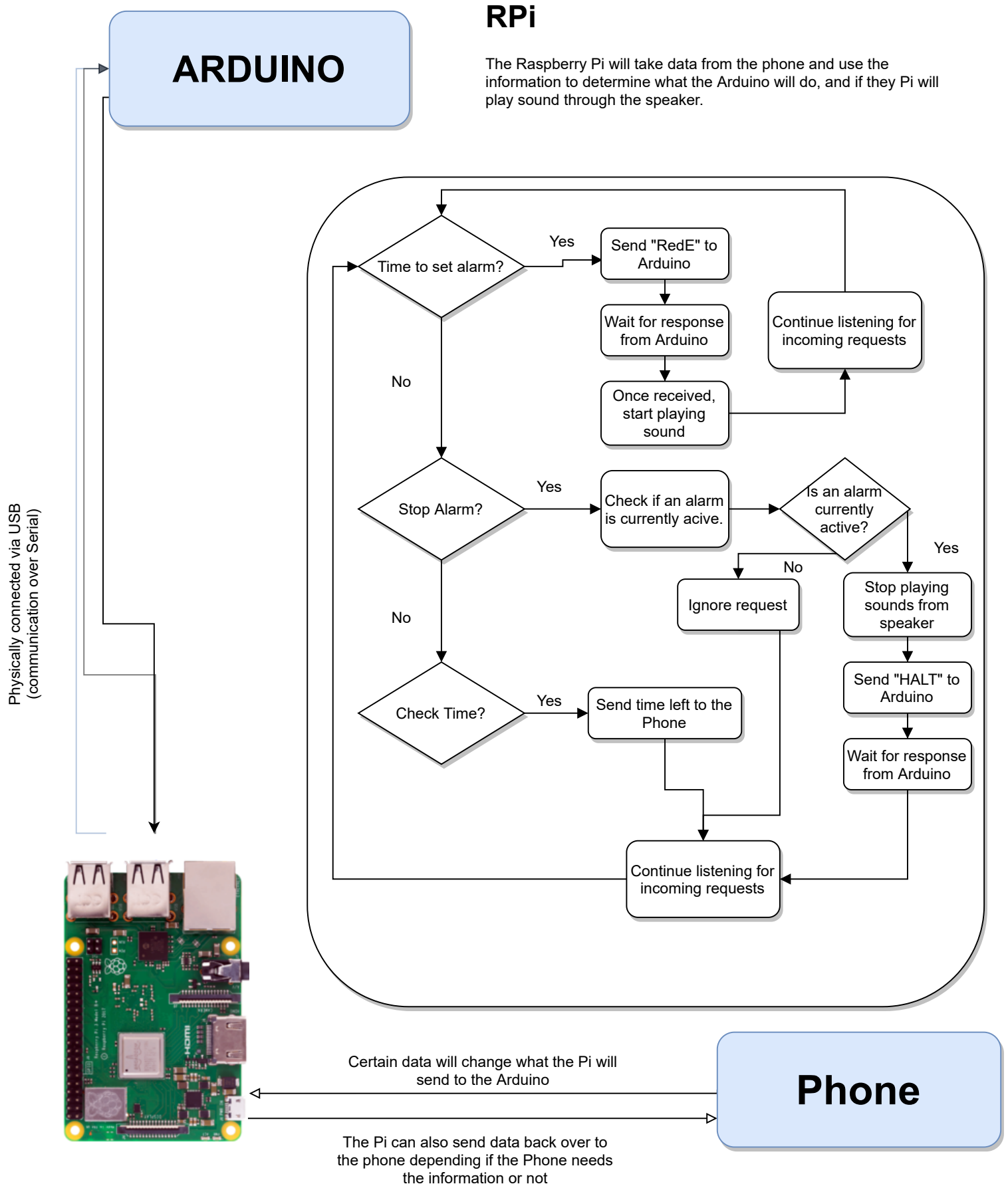
# Android App Flowchart (Detailed):

## Mobile Device

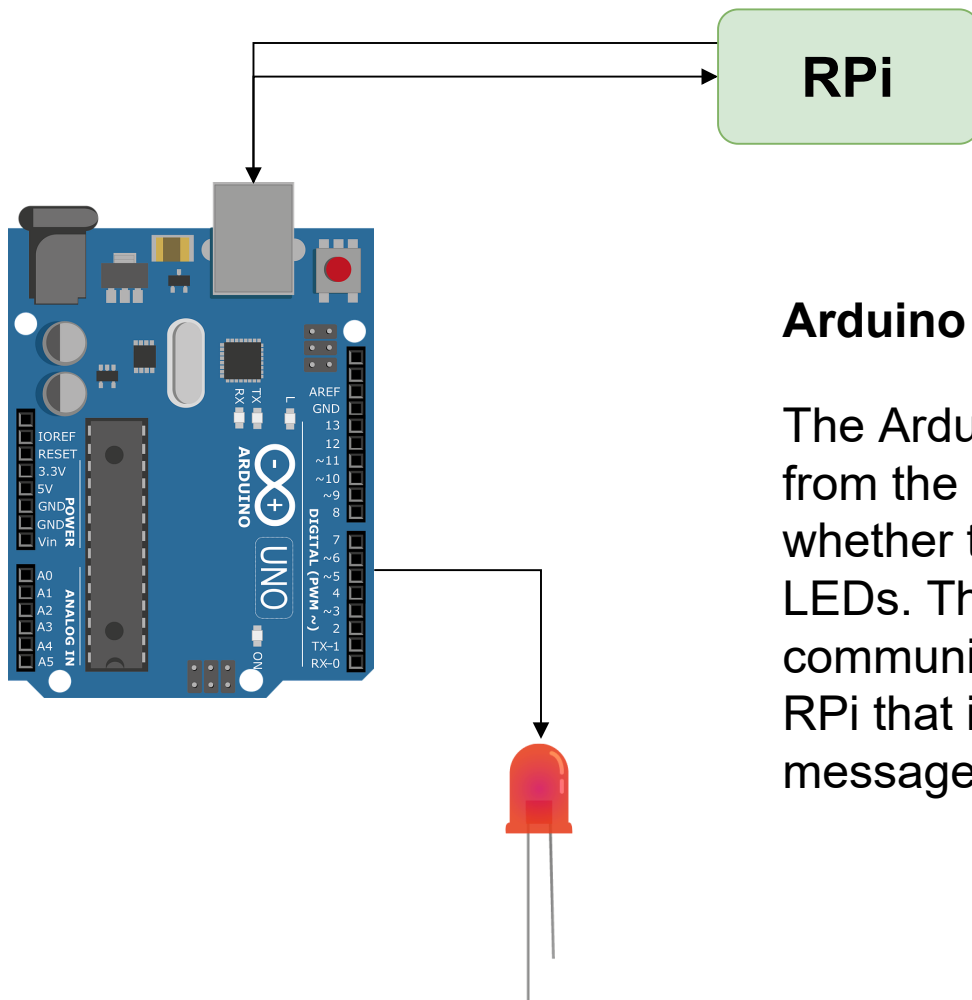
The phone will connect to the Raspberry Pi's WiFi Hotspot to set, delete, and stop alarms.



# Raspberry Pi Flowchart (Detailed):



# Arduino Flowchart (Detailed):



## Arduino

The Arduino takes Serial data from the RPi, and determines whether to turn on/off the LEDs. The Arduino will also communicate back to tell the RPi that it acknowledged the messages over Serial.

