Dear Kristian,

The following is the status report for JnJ's Clockwork:

Recent and Current Progress

Johnson

Has full database connections with the temperature sensor and is able to get its readings from firebase to the android app. Also assisted Jordan with alarm functionality. Currently is researching on how to get the pi to start up and have its applications run automatically.

Jordan

Created an activity in the android app to get the user to send its alarm settings to firebase, the hardware is able to detect and read the set alarm. He will also attempt to implement multiple alarm ringtones and volume control from the android app.

Juan

Updated the GitHub to provide its current version of android code. Is still working on the enclosure. He continues to work on the report in terms of the app build details and has included the build instruction, status reports, and illustration to the report.

Problems and Hyperlinks

One of the issue we encountered was with the display screen. When we originally used the PCB to connect the display screen, the screen would output all i2c numbers and would no longer run. We had this issue with 2 screens that we purchased prior. As a solution we decided to get a 0.56" 7-segment display screen instead of a 1.2". Thankfully the 0.56" had the exact same pins

as the 1.2” except for the IO pin and also was on Amazon so it came in fast. In terms of the amplifier, Jordan encountered an issue where the amplifier was unable to output sound when the alarm is supposed to go off. Jordan is still working on this issue and will hopefully have this issue resolved by the weekend.

Financial

The price for the display screen we recently purchased are as follows:

Adafruit 0.56" 4-Digit 7-Segment Display w/I2C Backpack White [ADA1002] - $30 CAD

More components may be purchased in the future depending on current circumstances.