Timeless:

Setup

- Learn coding for internet protocols
- Think about hardware (schematics, etc...)

C Libraries:

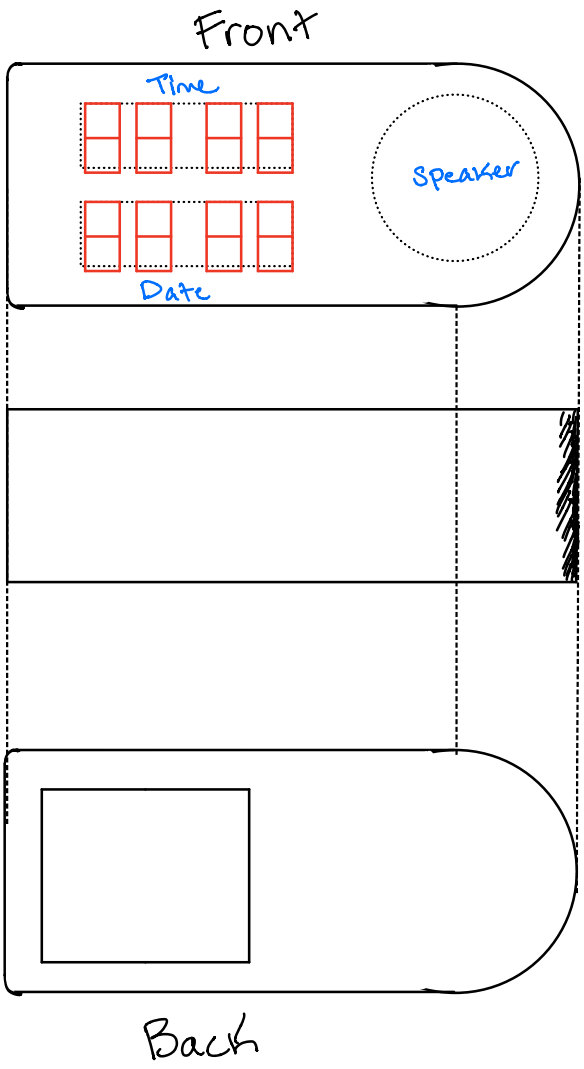
libcurl - for APIs

DFPlayer Mini library - for mp3 module

Notes:

- Speaker will likely need to be driven off of 9V input with MOSFET

-

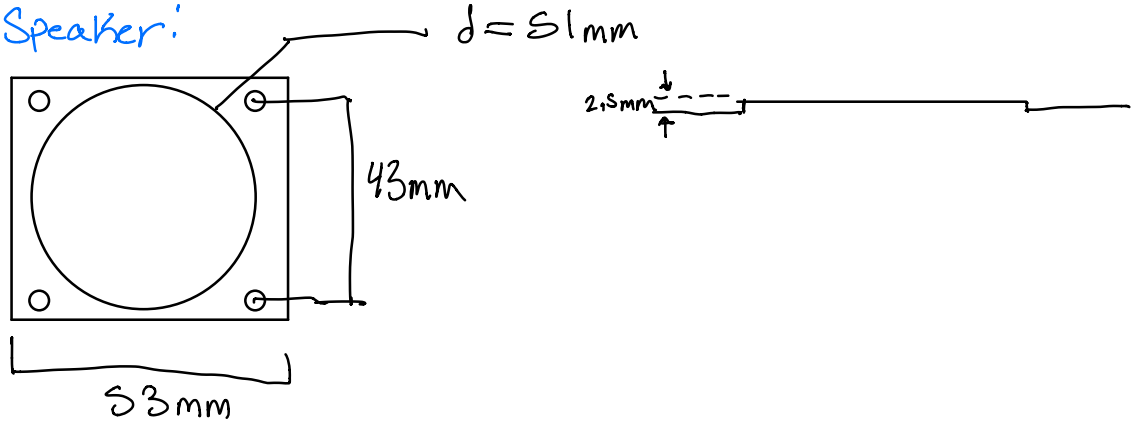


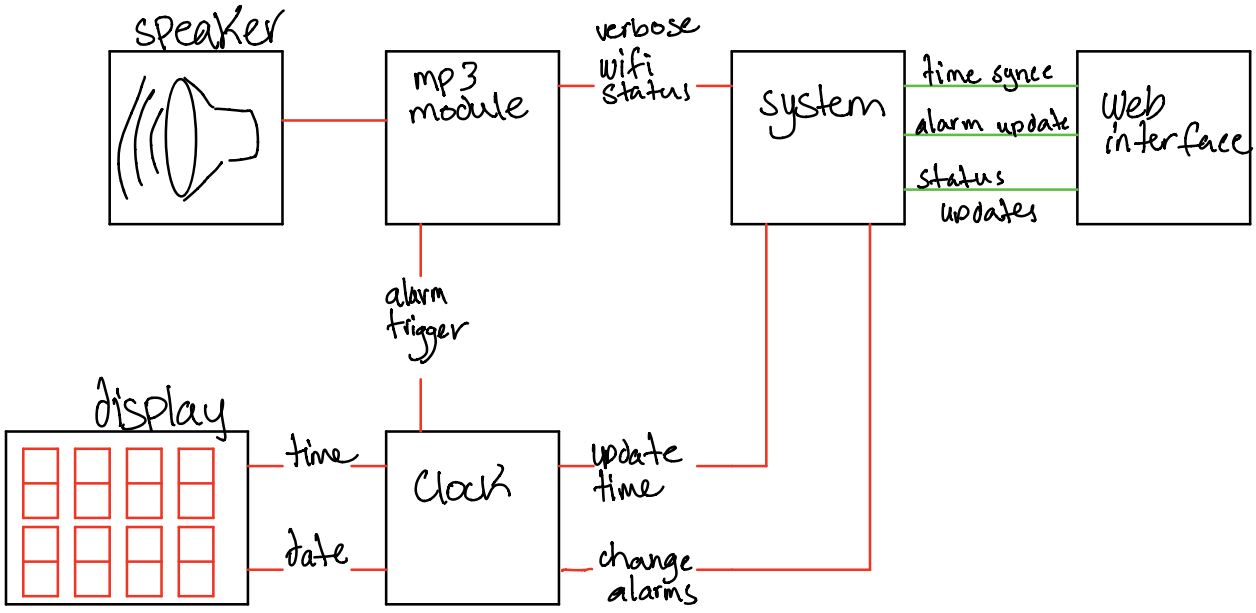
Not included :

- Buttons
  - snooze
  - display on/off
  - pair (bluetooth)?
- SD card slot

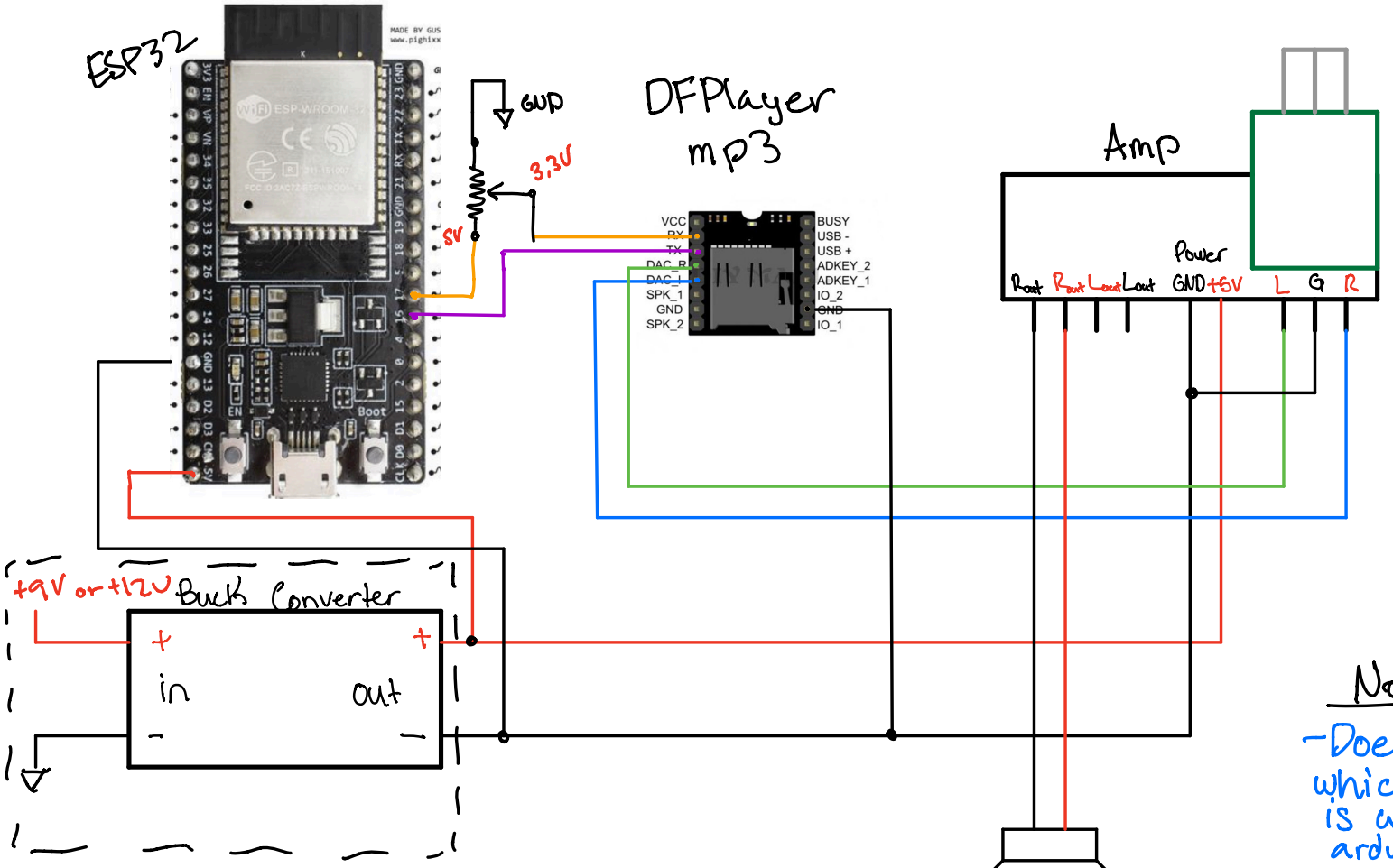
Components and Sizes:

Speaker:




speaker
mp3 module
verbose
wifi status
system
time sync
alarm update
status updates
web interface
alarm trigger
display
time
date
clock
update time
change alarms

Timeless Schematic



Buck converter only needed to bring more power for amp. You can still run mp3 off of ESP32

Notes:

- Doesn't matter which gnd is used from arduino or mp3 module
- Don't use usb and buck converter together