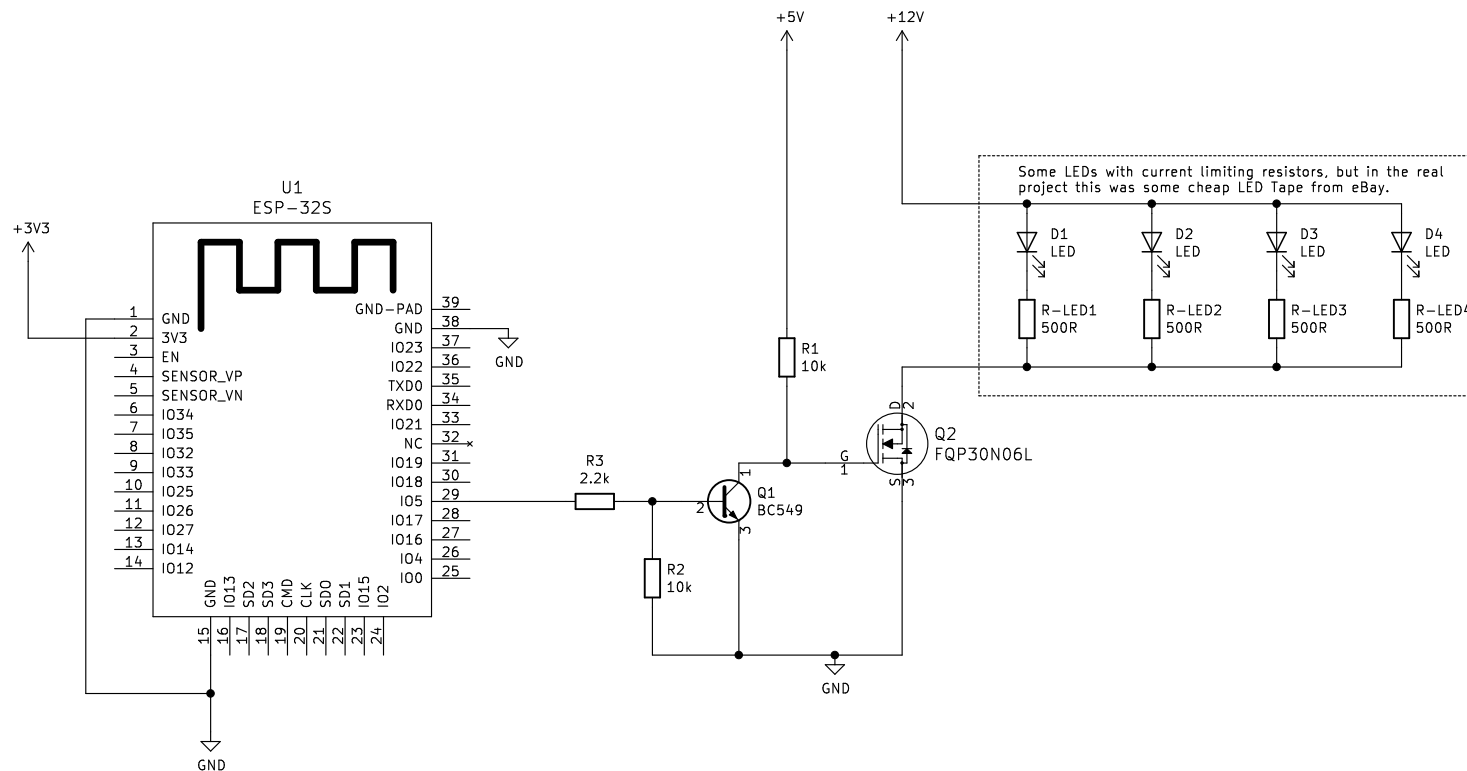
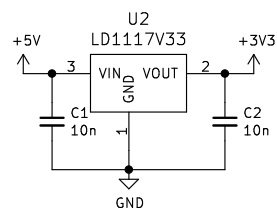


For the project I used a mains 12V @ 2A isolated power supply from a reputable manufacturer.
That came with a brand name wifi router i no longer use.
The 5v rail was created with an eBay 12v to 5v buck converter module.
5v is then connected to the ESP module V-in pin, and to the transistors as shown.
The ESP board has its own on board 3v3 regulator.



The ESP32 requires many more support components not shown here.
I have the WROOM and a 3v3 Linear regulator, to demonstrate the circuit.
Ideally you would use a breadboard friendly breakout board from Adafruit.



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