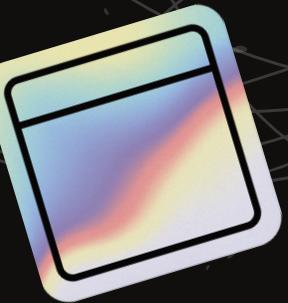
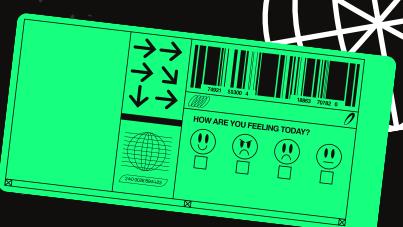


# SMART PLUG

ຕົວວັດອຸບນຫກນີ

SCHEMATIC



# FUNCTION

SCHEMATIC



สามารถตรวจสอบอุณหภูมิ  
ของปลั๊กไฟได้



สามารถดูอุณหภูมิผ่าน  
แอปพลิเคชันได้



สามารถสั่งเปิด-ปิดผ่านแอป  
พลิกซ์นได้

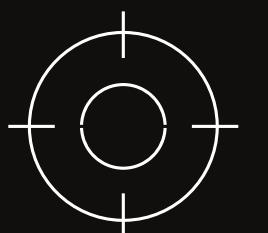


ตั้งเวลาเปิด-ปิดได้



# เชื่อมต่อ BLYNK

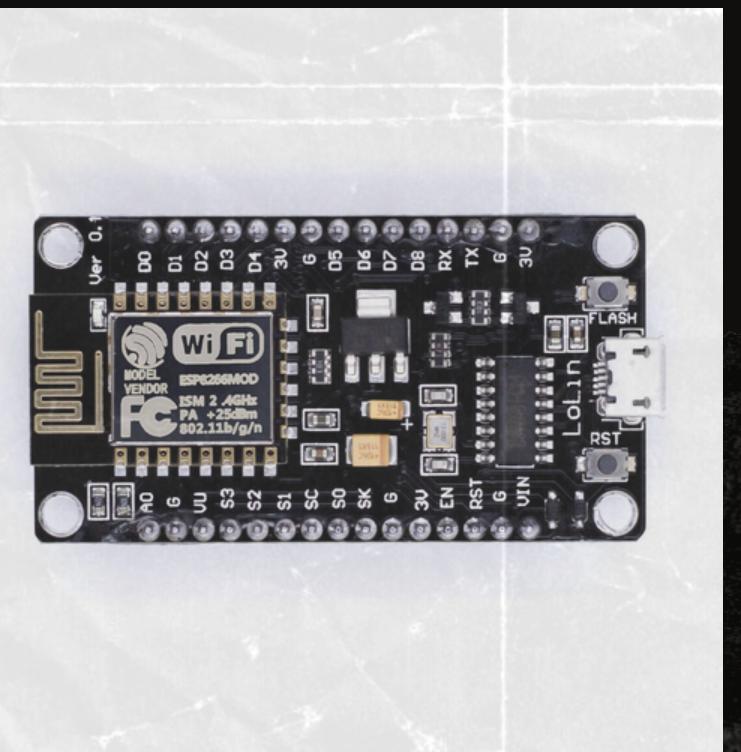
หน้าที่คือเชื่อม ต่อ WIFI  
ใน NODE MCU 8266  
เพื่อสื่อสารอุปกรณ์ IOT  
ของเราได้





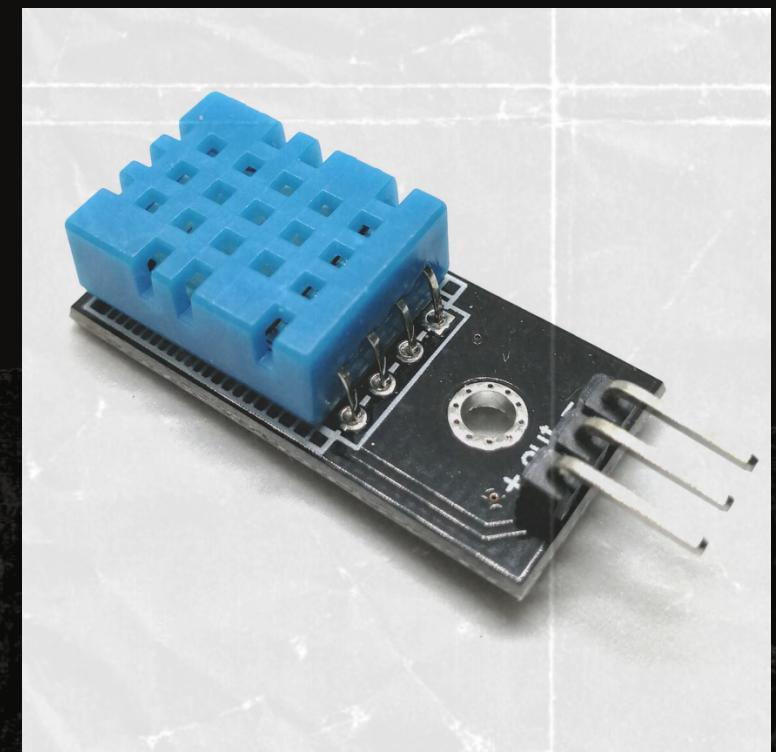
dunsu

# อุปกรณ์



**ESP 8266**

เซ็ตติ่งต่อໄວໄไฟ



**DHT11**

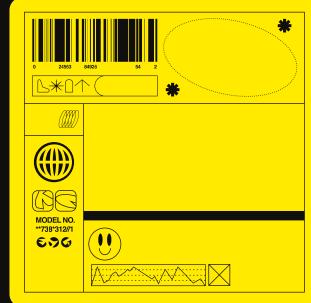
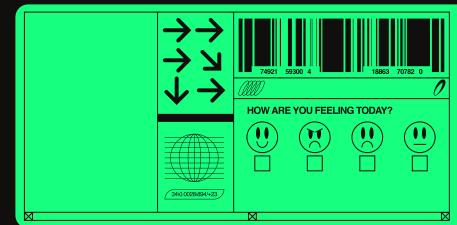
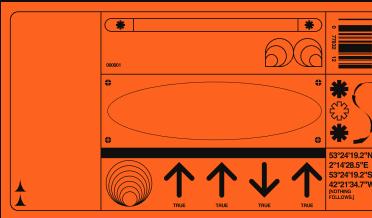
มีໄວພ້ອວັດອຸລະກົມ



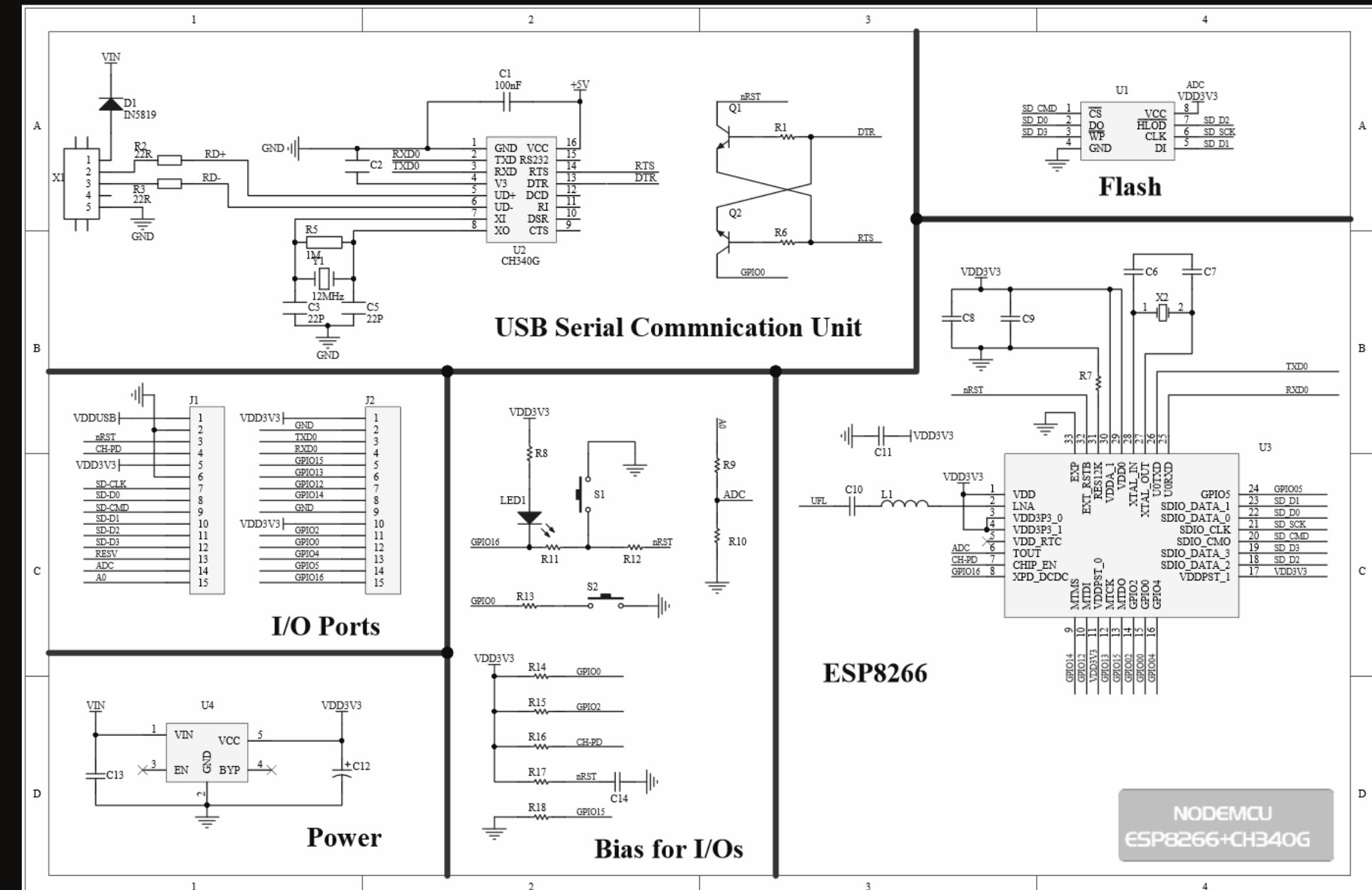
**RELEY 5V**

ເຄົາໄວັດຄົມອຸປະນົມທີ່ເສີຍບໄວ

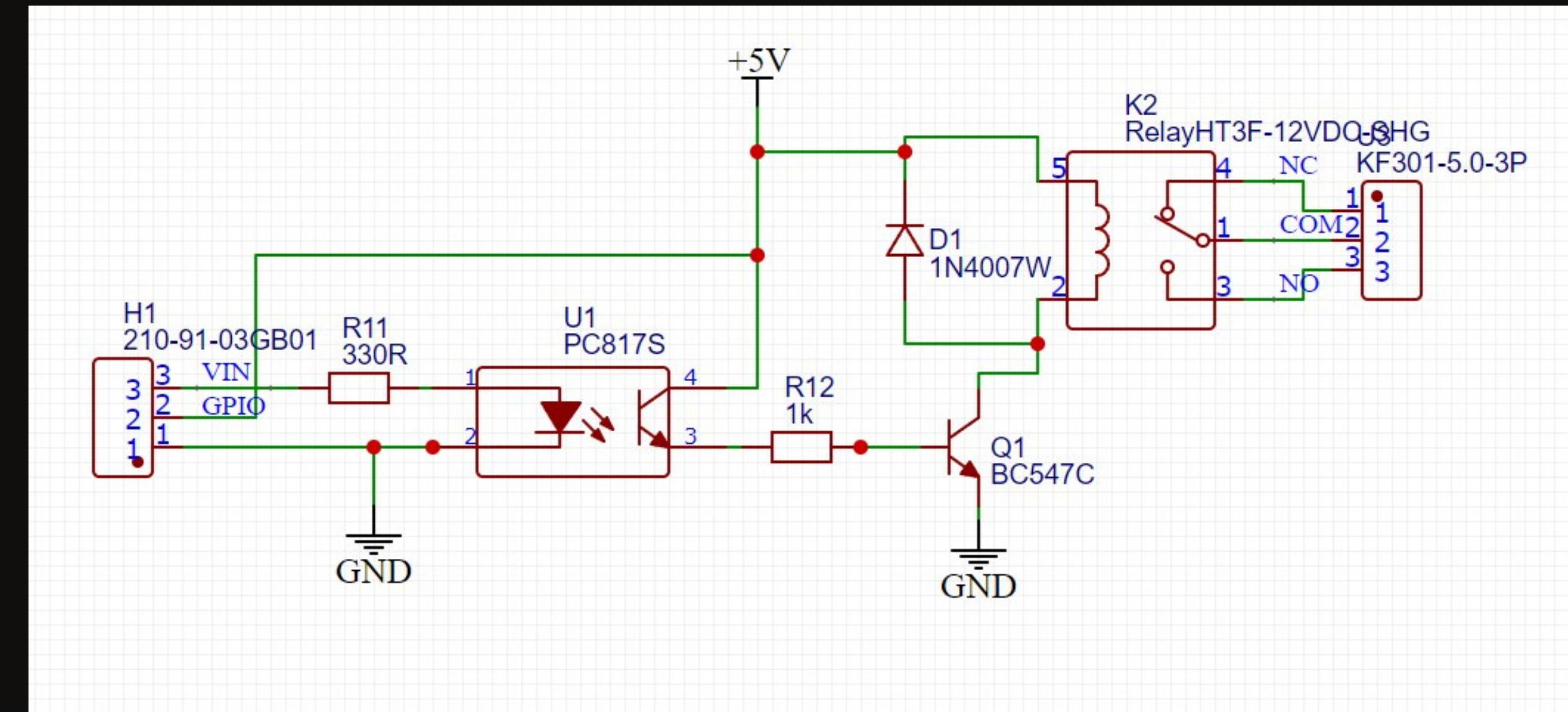
# SCH E MATIC



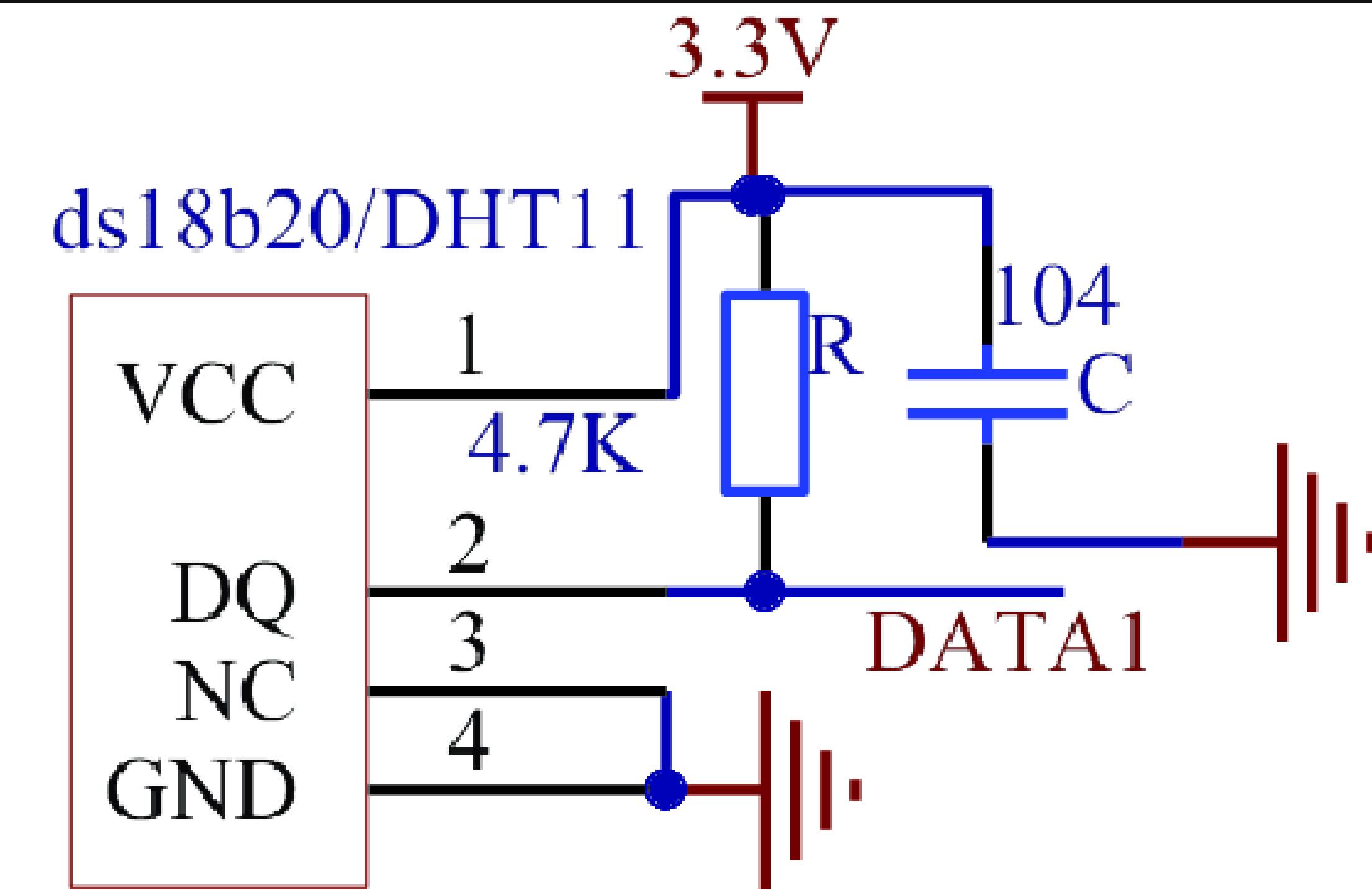
## SCHEMATIC-ESP8266

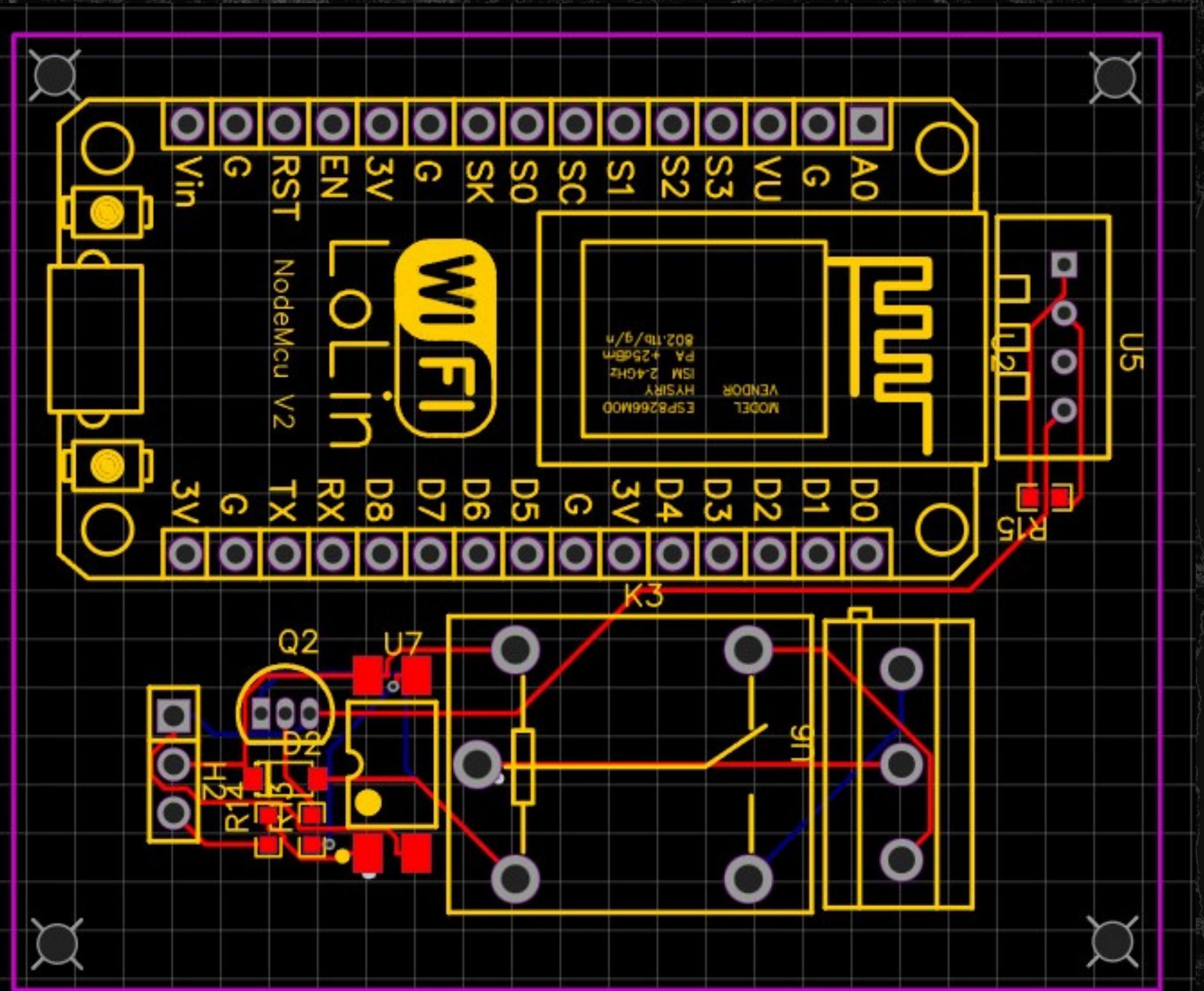


## SCHEMATIC-RELEY

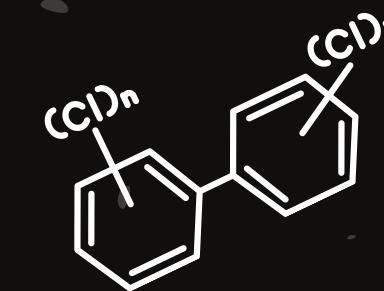


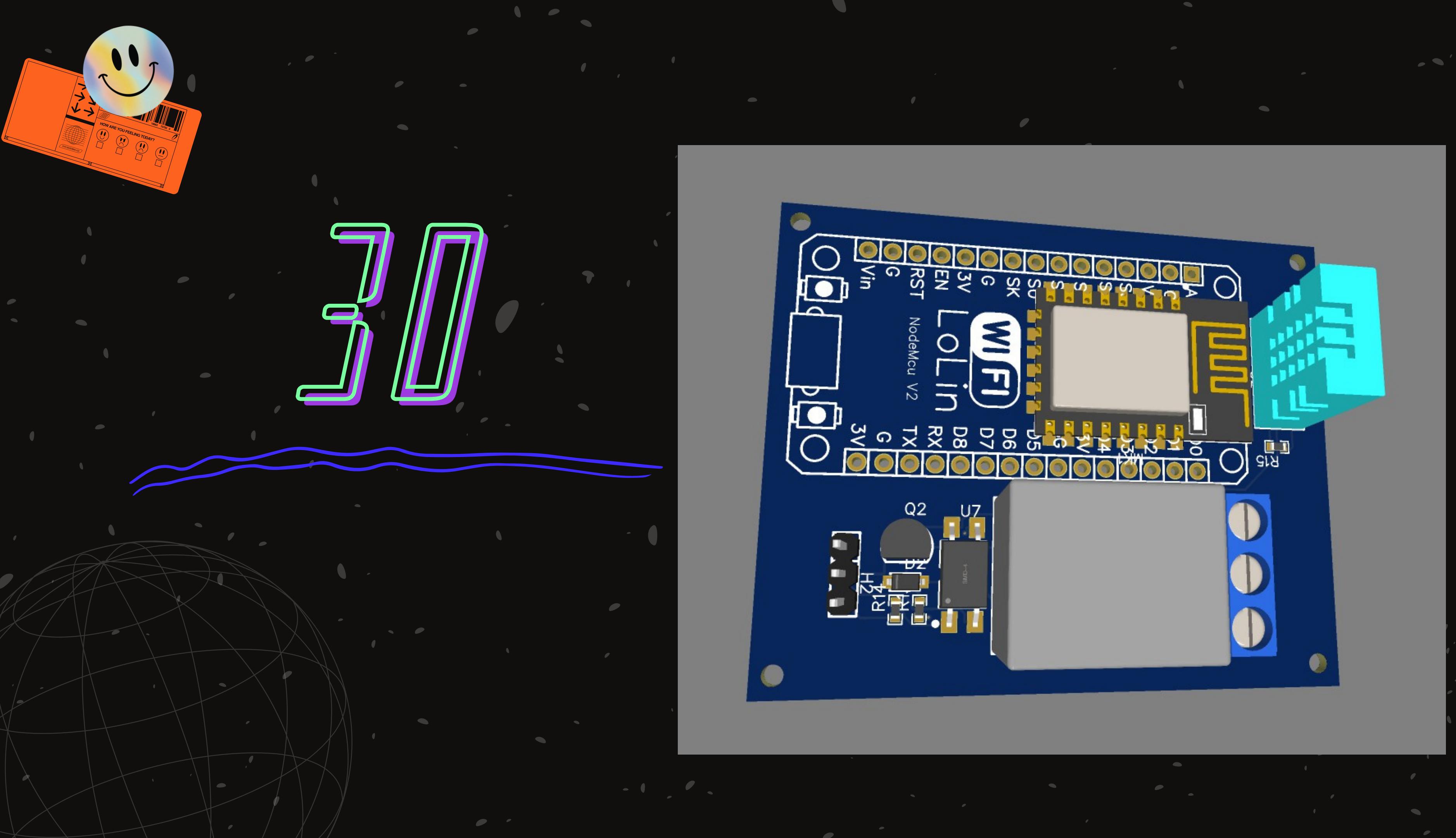
## SCHEMATIC-DHT11



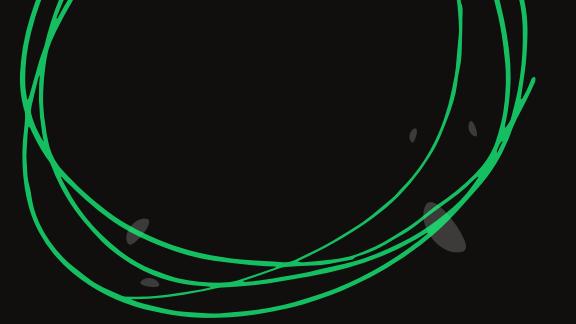


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# CODE



## CODE

```
1  ****
2
3  This is a simple demo of sending and receiving some data.
4  Be sure to check out other examples!
5  ****
6
7  /* Fill-in information from Blynk Device Info here */
8  #define BLYNK_TEMPLATE_ID          "TMPLySLeRMX8"
9  #define BLYNK_TEMPLATE_NAME        "Quickstart Template"
10 #define BLYNK_AUTH_TOKEN           "o6mkbEWI10u-nRKFpUNiFBHzqrbs_qYc"
11
12 /* Comment this out to disable prints and save space */
13 #define BLYNK_PRINT Serial
14
15
16 #include <ESP8266WiFi.h>
17 #include <BlynkSimpleEsp8266.h>
18
19 // Your WiFi credentials.
20 // Set password to "" for open networks.
21 char ssid[] = "Maxx";
22 char pass[] = "maxmatiw30";
23
24 #include "DHT.h"
25 DHT dht;
26
27 BlynkTimer timer;
28
29 #define LED D4
30 #define RELAY D0
31 // This function is called every time the Virtual Pin 0 state changes
32 BLYNK_WRITE(V0) // RELAY
33 {
```

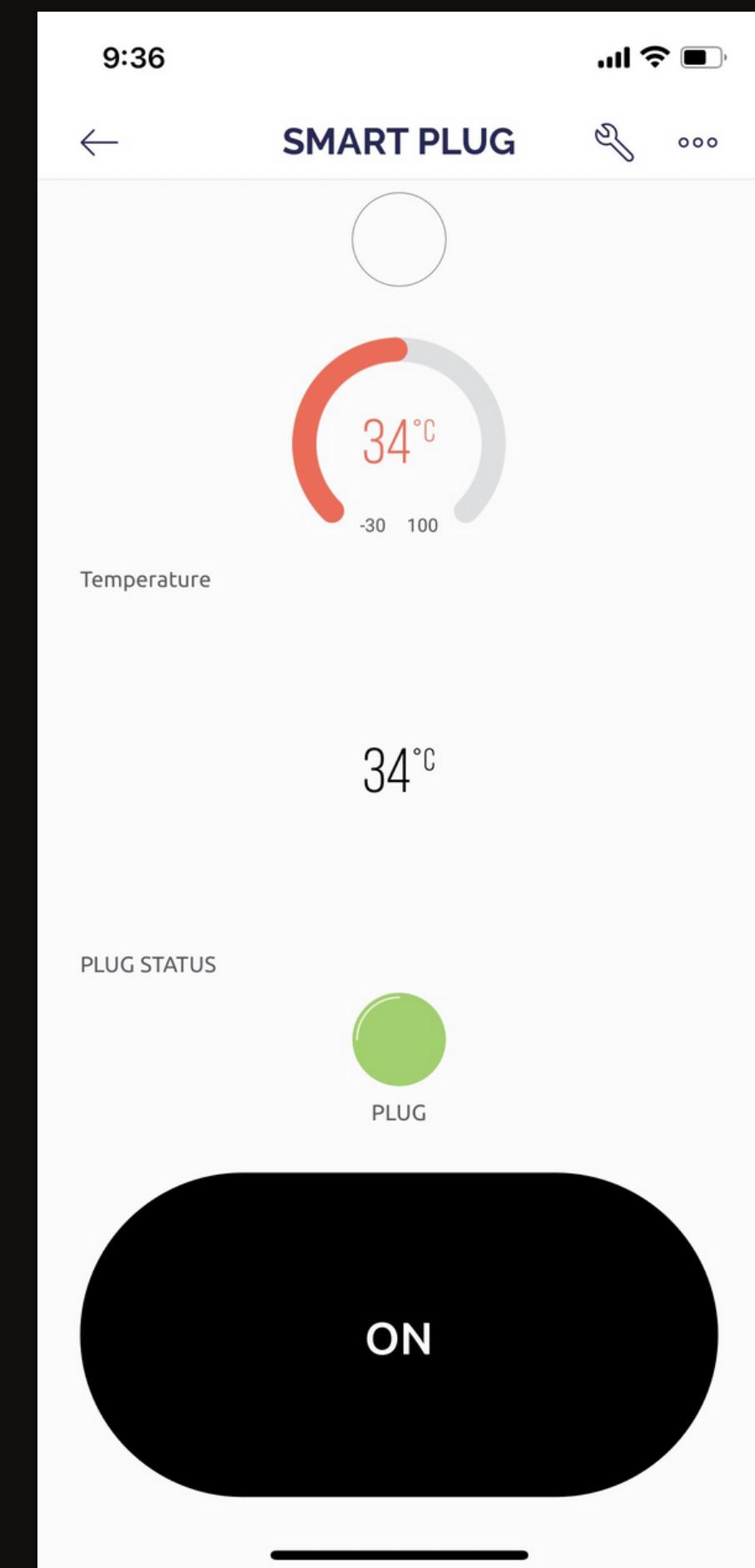
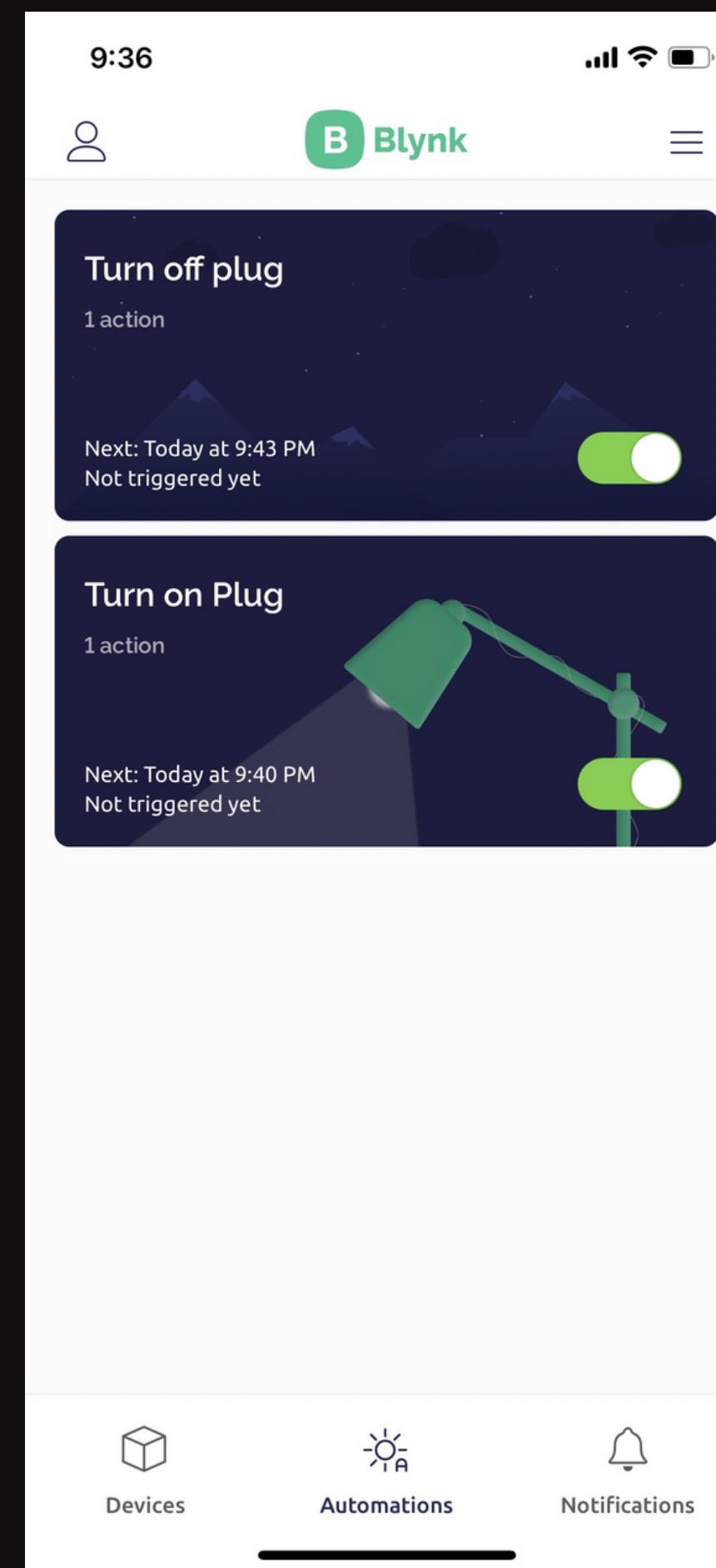
# CODE

```
33  {
34
35  int Rv = param.asInt();
36  if (Rv == 0){
37  | digitalWrite(RELAY, HIGH);
38  }
39  else{ // RELAY ON ** ACTIVE LOW
40  | digitalWrite(RELAY, LOW);
41  }
42 }
43
44 BLYNK_WRITE(V1) // LED
45 {
46  int state = param.asInt();
47  if (state == 0){
48  | digitalWrite(LED, HIGH);
49  }
50  else{ // LED ON
51  | digitalWrite(LED, LOW);
52  }
53 }
54 // This function is called every time the device is connected to the Blynk.Cloud
55 BLYNK_CONNECTED()
56 {
57  // Change Web Link Button message to "Congratulations!"
58  Blynk.setProperty(V3, "offImageUrl", "https://static-image.nyc3.cdn.digitaloceanspaces.com/general/fte/congratulations.png");
59  Blynk.setProperty(V3, "onImageUrl", "https://static-image.nyc3.cdn.digitaloceanspaces.com/general/fte/congratulations\_pressed.png");
60  Blynk.setProperty(V3, "url", "https://docs.blynk.io/en/getting-started/what-do-i-need-to-blynk/how-quickstart-device-was-made");
61 }
62
63 // This function sends Arduino's uptime every second to Virtual Pin 2.
64 void myTimerEvent()
65 {
66  // You can send any value at any time.
67  // Please don't send more than 10 values per second.
68  Blynk.virtualWrite(V2, millis() / 1000);
69 }
```

# CODE

```
71 void setup()
72 {
73     // Debug console
74     Serial.begin(115200);
75
76     Blynk.begin(BLYNK_AUTH_TOKEN, ssid, pass);
77     // You can also specify server:
78     //Blynk.begin(BLYNK_AUTH_TOKEN, ssid, pass, "blynk.cloud", 80);
79     //Blynk.begin(BLYNK_AUTH_TOKEN, ssid, pass, IPAddress(192,168,1,100), 8080)
80
81     // Setup a function to be called every second
82     timer.setInterval(1000L, myTimerEvent);
83     pinMode(RELAY, OUTPUT);
84     pinMode(LED, OUTPUT);
85
86     dht.setup(D1); // data pin D1
87     digitalWrite(RELAY, HIGH);
88     digitalWrite(LED, HIGH);
89 }
90
91 void loop()
92 {
93     Blynk.run();
94     timer.run();
95     // You can inject your own code or combine it with other sketches.
96     // Check other examples on how to communicate with Blynk. Remember
97     // to avoid delay() function!
98     float Temps = dht.getTemperature();
99     Serial.print("Temperature : ");
100    Serial.print(Temps);
101    Serial.println("°C");
102    delay(1000);
103    Blynk.virtualWrite(V3, Temps);
104    if (Temps > 50){
105        digitalWrite(LED, LOW);
106        Blynk.virtualWrite(V1, 0); // Led High (on)
107        Blynk.virtualWrite(V0, 0); // Relay High (off)
108    }
109    else {
110        digitalWrite(LED, HIGH); // Led off when Temperature <= 50
```

# PHOTOTYPE

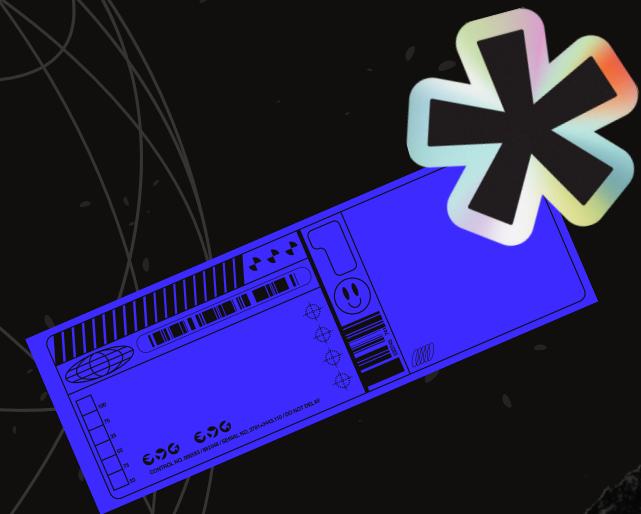
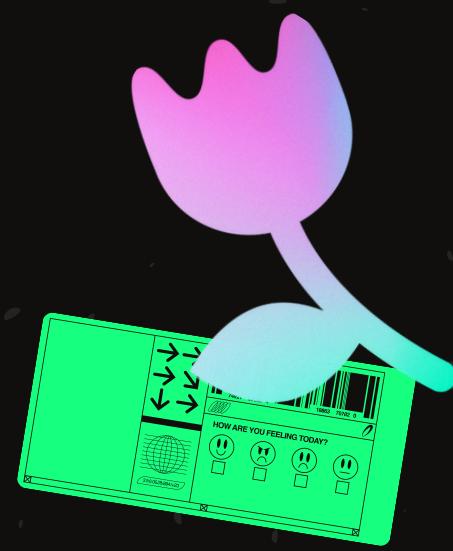


THANK YOU

THANK YO



# Thank you!



# group

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เมราสิกร์ มุขเพชร  
ยศภัทร แซ่เติน  
นันย อุไรเรือง  
ภัตรพล ดวงมาลา

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กิว  
บ้าส  
เมฆ

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65032957  
65012935  
65023890  
65026364

