

WORKSHEET 3.1 IOT

Class:-26 B Group No:-5

Group Members Details

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Task:

Design a wireless network signal strength logging system for IoT devices.

Requirements:

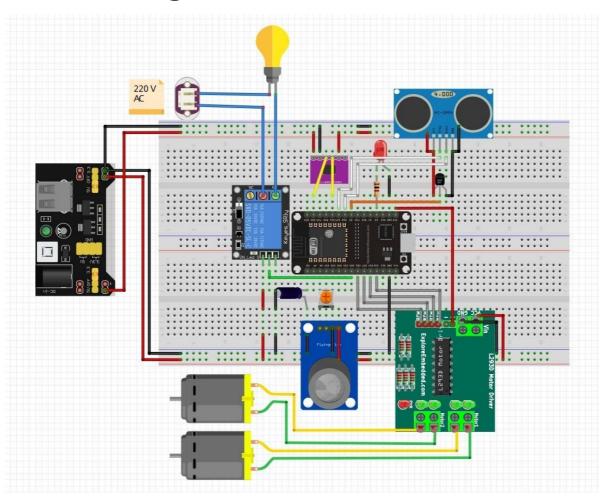
Write the apparatus/components/equipment requirements here.

- 1. PC with Arduino
- 2. Connecting Wires
- 3. Breadboard



- 4. DOIT ESP32 DEVKIT V1
- 5. 10uF Electrolytic Capacitor
- 6. Wire Clipper
- 7. USB Type A to Micro USB Cable
- 8. DC 5V Power Supply
- 9. DC 3.3V Power Supply

Circuit Diagram:





CODE IF ANY

```
Board: DOIT ESP32 DEVKIT V1
*/
#include <WiFi.h>
#include <IFTTTWebhook.h>
#define WIFISSID "" // Your WiFi Name #define PASSWORD "" // Your WiFi
Password
#define IFTTT EVENT NAME " data log "
#define IFTTT API KEY "d5SAZEMDI5cq3 1RgASjNTiZgpUr74zzP-
EfeVk3ufh "
IFTTTWebhook ifttt webhook(IFTTT API KEY, IFTTT EVENT NAME);
void setup() {
// Initializing Serial communication.
Serial.begin(9600); Serial.println("Init... T7 Signal Log");
// Setup up WiFi and Connecting to an active hotspot.
Serial.print("\n\nCnonnecting to "); Serial.println(WIFISSID);
WiFi.begin(WIFISSID, PASSWORD);
while (WiFi.status() != WL CONNECTED) { // Waiting for successful connection
delay(500);
```



```
Serial.print(".");
}

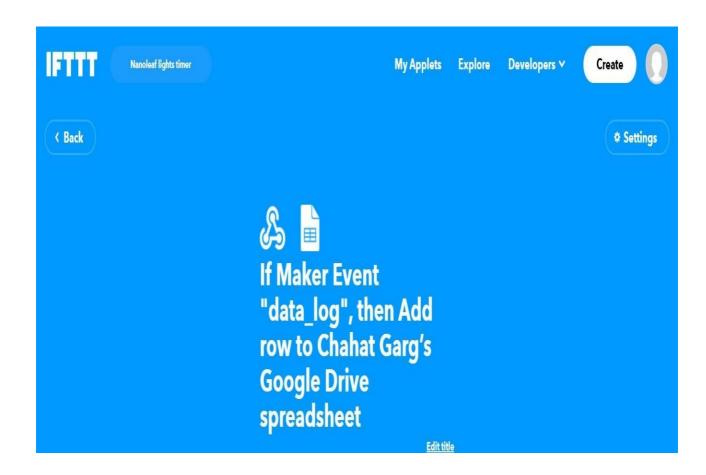
Serial.print("\nRSSI: "); Serial.println(WiFi.RSSI ());

Serial.print("WiFi connected. IP address: "); Serial.println(WiFi.localIP());
}
// the loop function runs over and over again forever void loop() {
int rssi = WiFi.RSSI(); ifttt_webhook.trigger(String(rssi).c_str ());
Serial.print("\nRSSI: "); Serial.println(rssi);
delay(5000);
}
```



Dashboard Snippet (if any):

Paste your dashboard's snapshots here.



Outcome:

Write your observations and learnings here.

- □To us IFTTT site.
- □Understand RSSI.