APRESENTAÇÃO PIC
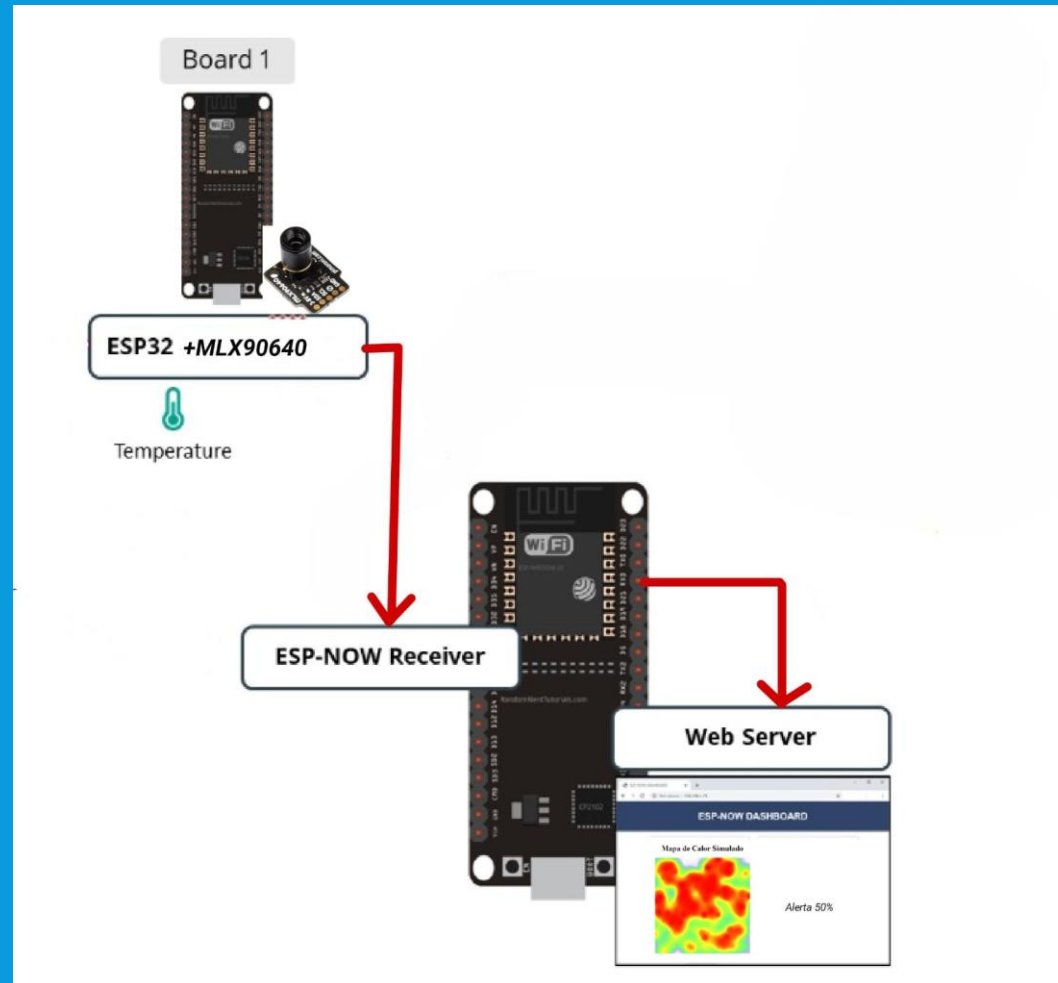
1ª Reunião

WEBSITE
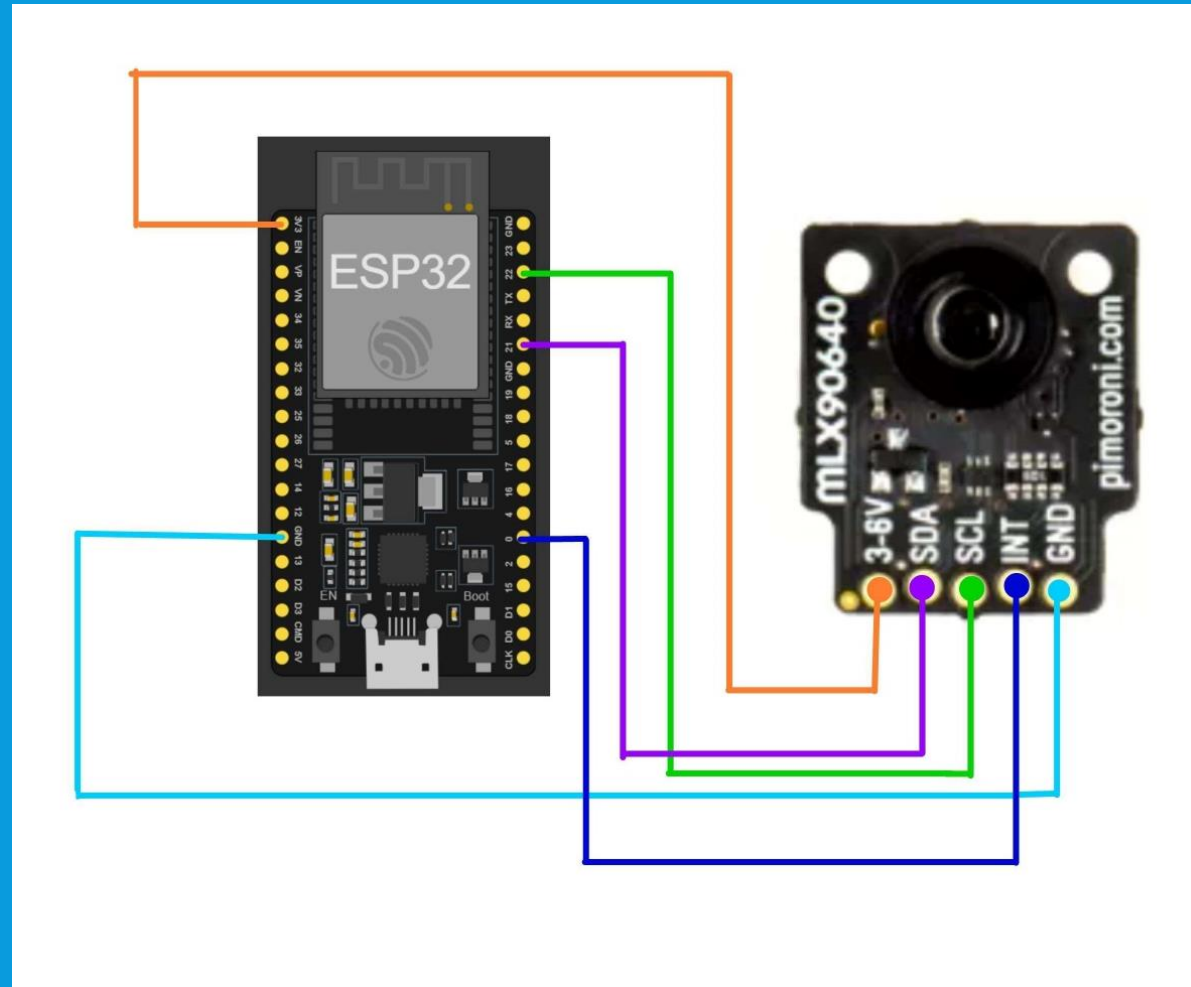

- https://forestfiredetection.online

ARQUITETURA DO SISTEMA

DIAGRAMA ESQUEMÁTICO

LISTA DE MATERIAL

Orçamento PIC

Orçamento máximo	300,00 €		300,00 €
Custo total	242,16 €		242,16 €

Está abaixo do orçamento por 57,84 €

Item	Descrição	Custo	Qtd.	Montante	Notas
Câmara térmica	MLX90640 Thermal Camera Breakout	78,94 €	2	157,88 €	https://www.digikey.pt/pt/products/detail/pimoroni-ltd/PIM365/9606191?utm_adgroup=&utm_source=google&utm_medium=cpc&utm_campaign=PMax_Product_All%20Products&utm_term=&productid=9606
ESP32	ESP32 2.4GHz Dual-Mode WiFi and Bluetooth Development Board	12,18 €	3	36,54 €	https://www.ptrobotics.com/wifi/7074-esp32-24ghz-dual-mode-wifi-and-bluetooth-development-board.html
Breadboard		3,69 €	1	3,69 €	https://www.ptrobotics.com/breadboards/3090-breadboard-400-points-branco.html
Jumper Wires	Connected 6" M/M Pack of 20	3,08 €	1	3,08 €	https://www.ptrobotics.com/jumper-wires/4103-jumper-wires-connected-6-m-m-pack-of-20.html
Socket 5pin	PCB Socket 5Pin Single Row	0,18 €	2	0,36 €	https://www.ptrobotics.com/headers-e-sockets/3260-pcb-socket-5pin-single-row.html
Drone	Klack F185 Pro 4K Profesional hd Con	37,90 €	1	37,90 €	https://www.kuantokusta.pt/p/10388440/klack-mini-dron-klack-f185-pro-4k-profesional-hd-con-camara-de-tres-lados-para-evitar-obstaculos-kf185pro
Jumper Wires	20cm F/F Pack of 10 Random Color	2,71 €	1	2,71 €	https://www.ptrobotics.com/jumper-wires/2610-jumper-wires-premium-20cm-f-f-pack-of-10-random-color.html
Total				242,16 €	

TESTE 1

TESTE 1

TESTE 2


```
for(int i = 0; i < 50; i++) {
    for(int j = 0; j < 50; j++) {
        if(i > 0 || j > 0) data += ",";
        int value = random(0, 100); // Simula um valor de "calor"
        data += String("{x: ") + String(i) + ", y: " + String(j) + ", value: " + String(val
    }
}
data += "]";
return data;
}

void sendHtmlWithHeatmap() {
    String heatmapData = getHeatmapData();

    String response = R"(
        <!DOCTYPE html><html>
        <head>
            <title>ESP32 Heatmap Demo 12</title>
            <meta name="viewport" content="width=device-width, initial-scale=1">
            <script src="https://cdn.jsdelivr.net/npm/heatmap.js@2.0.5/build/heatmap.min.js">
            <style>
                body { text-align: center; }
                #heatmap {  width: 100px; height: 100px; margin: auto; }
            </style>
        </head>
```
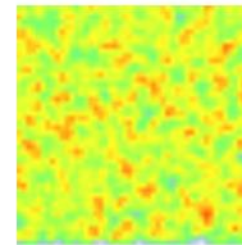
ALERTAS

- Percentagem de pixéis com um valor maior ou igual a 100ºC
- 15%
- 30%
- 45%
- 60%
- 75%
- 90%
- 100%
- Nota: Mensagens personalizadas para cada percentagem