

```
#include <WiFi.h>

const char* ssid = "name of access point";
const char* password = "password of n/w";
int ledPin = 13; // GPIO13

WiFiServer server(80);

void setup() {
  Serial.begin(9600);
  delay(10);

  pinMode(ledPin, OUTPUT);
  digitalWrite(ledPin, LOW);

  // Connect to WiFi network

  Serial.println();
  Serial.println();
  Serial.print("Connecting to ");
  Serial.println(ssid);
  WiFi.begin(ssid, password);
  while (WiFi.status() != WL_CONNECTED) {
    delay(500);
    Serial.print(".");
  }
  Serial.println("");
  Serial.println("WiFi connected");

  // Start the server
  server.begin();
  Serial.println("Server started");

  // Print the IP address
  Serial.print("Use this URL to connect: ");
  Serial.print("http://");
  Serial.print(WiFi.localIP());
  Serial.println("/");
```

```
}
```

```
void loop() {
```

```
  // Check if a client has connected
```

```
  WiFiClient client = server.available();
```

```
  if (!client) {
```

```
    return;
```

```
  }
```

```
  // Wait until the client sends some data
```

```
  Serial.println("new client");
```

```
  while(!client.available()){
```

```
    delay(1);
```

```
  }
```

```
  // Read the first line of the request
```

```
  String request = client.readStringUntil('\r');
```

```
  Serial.println(request);
```

```
  client.flush();
```

```
  // Match the request
```

```
  int value = LOW;
```

```
  if (request.indexOf("/LED=ON") != -1) {
```

```
    digitalWrite(ledPin, HIGH);
```

```
    value = HIGH;
```

```
  }
```

```
  if (request.indexOf("/LED=OFF") != -1) {
```

```
    digitalWrite(ledPin, LOW);
```

```
    value = LOW;
```

```

}

// Set ledPin according to the request
//digitalWrite(ledPin, value);

// Return the response
client.println("HTTP/1.1 200 OK");
client.println("Content-Type: text/html");
client.println(""); // do not forget this one
client.println("<!DOCTYPE HTML>");
client.println("<html>");

client.print("Led pin is now: ");

if(value == HIGH) {
    client.print("On");
} else {
    client.print("Off");
}

client.println("<br><br>");
client.println("<a href=\" /LED=ON\"><button>Turn On </button></a>");
client.println("<a href=\" /LED=OFF\"><button>Turn Off </button></a><br />");
client.println("</html>");

delay(1);

Serial.println("Client disonnected");
Serial.println("");

}

```