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#include <WiFi.h>

const char* ssid = "*****";
const char* password = "*****";

const int ledPin = 2;

WiFiServer server(80);

void setup() {
  Serial.begin(115200);
  pinMode(ledPin, OUTPUT);
  WiFi.begin(ssid, password);
  while (WiFi.status() != WL_CONNECTED) {
    delay(1000);
    Serial.println("Connecting to WiFi...");
  }
  Serial.println("Connected to WiFi");
  Serial.print("IP Address: ");
  Serial.println(WiFi.localIP());
  server.begin();
}

void loop() {
  WiFiClient client = server.available();
  if (client) {
    String request = client.readStringUntil('\r');
    if (request.indexOf("GET /on") != -1) {
      digitalWrite(ledPin, HIGH);
    }
    if (request.indexOf("GET /off") != -1) {
      digitalWrite(ledPin, LOW);
    }
    client.flush();
    client.print("HTTP/1.1 200 OK\r\n\r\n");
    client.print("LED Control: ");
    client.print(digitalRead(ledPin) == HIGH ? "On" : "Off");
    client.stop();
  }
}

```