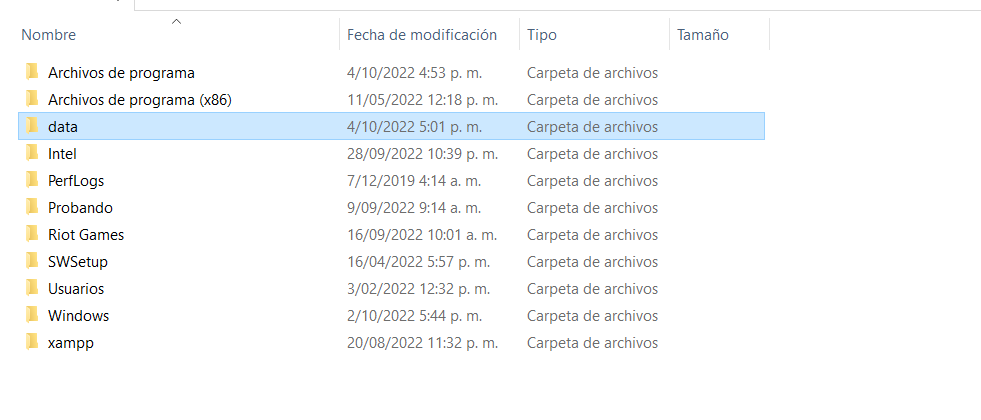
Taller 7b. Servidor IoT-MongoDB

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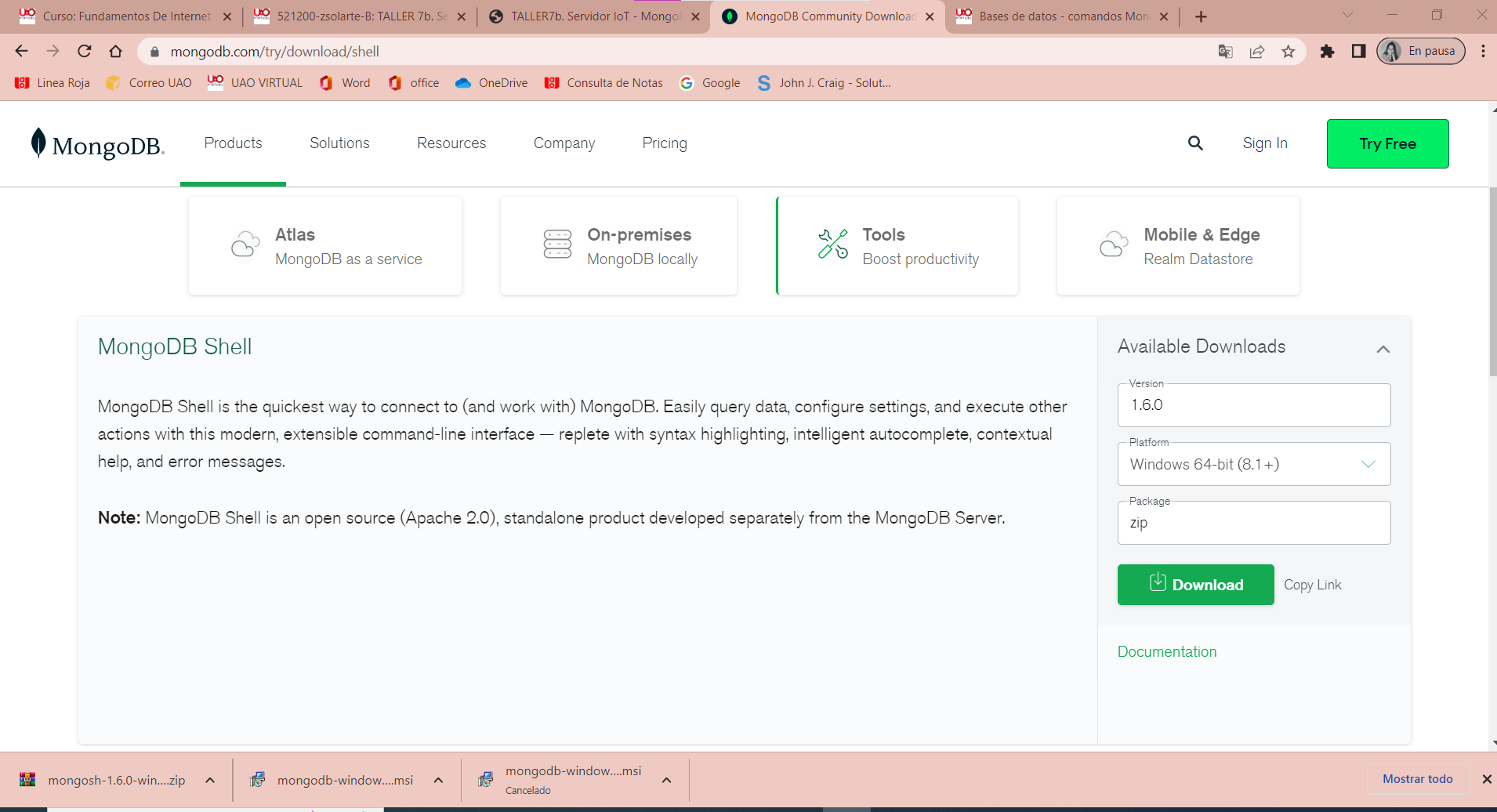
Interfaz de usuario gráfica, Texto, Aplicación

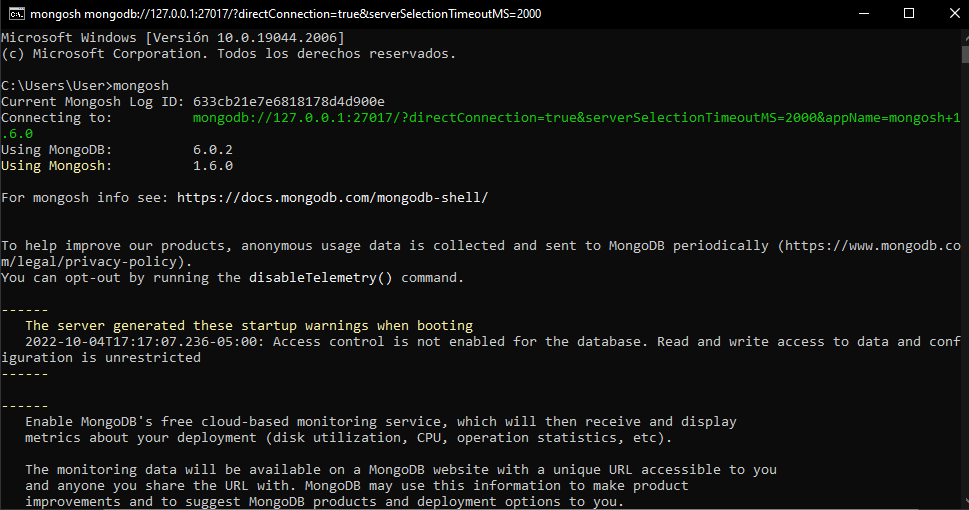
Descripción generada automáticamente

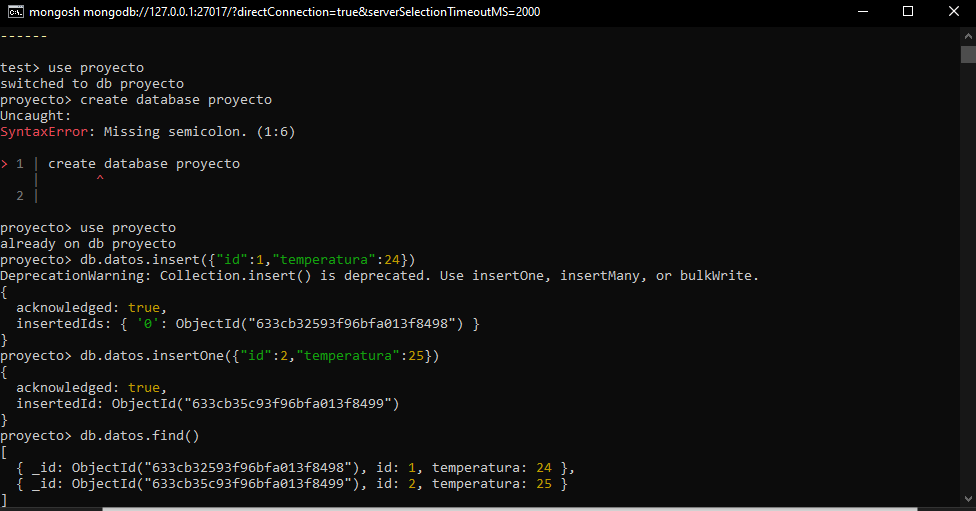
Texto

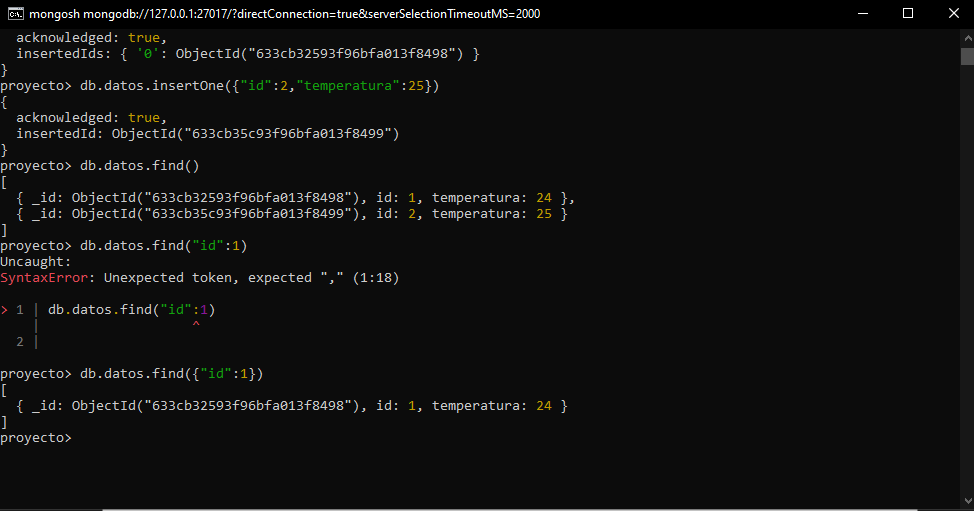
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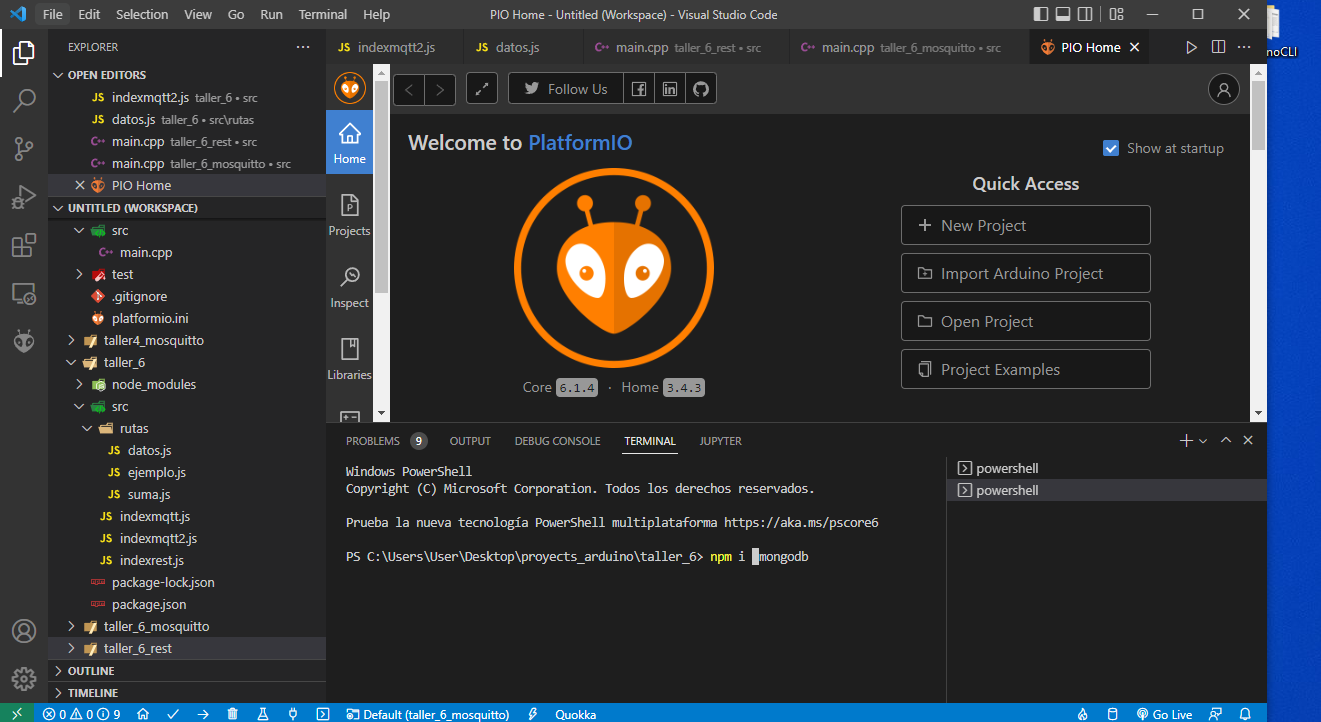
Ingresar a mongodb.com/try/download/shell

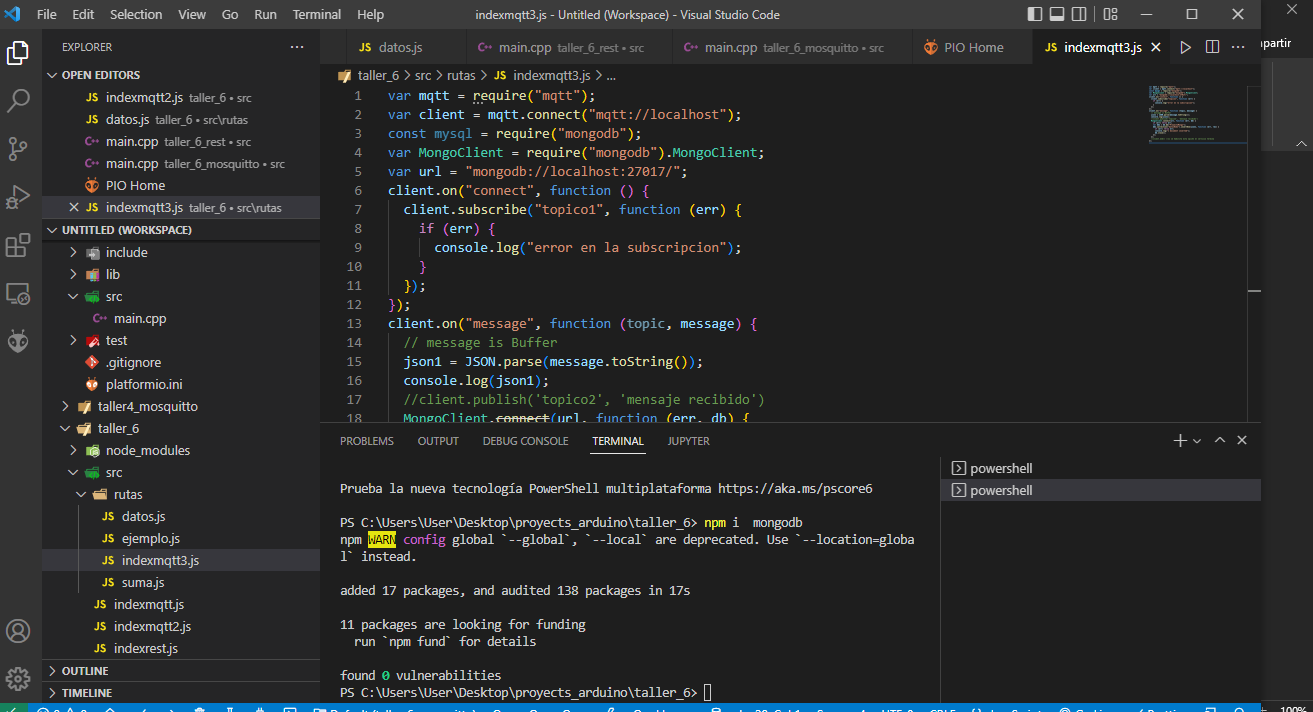


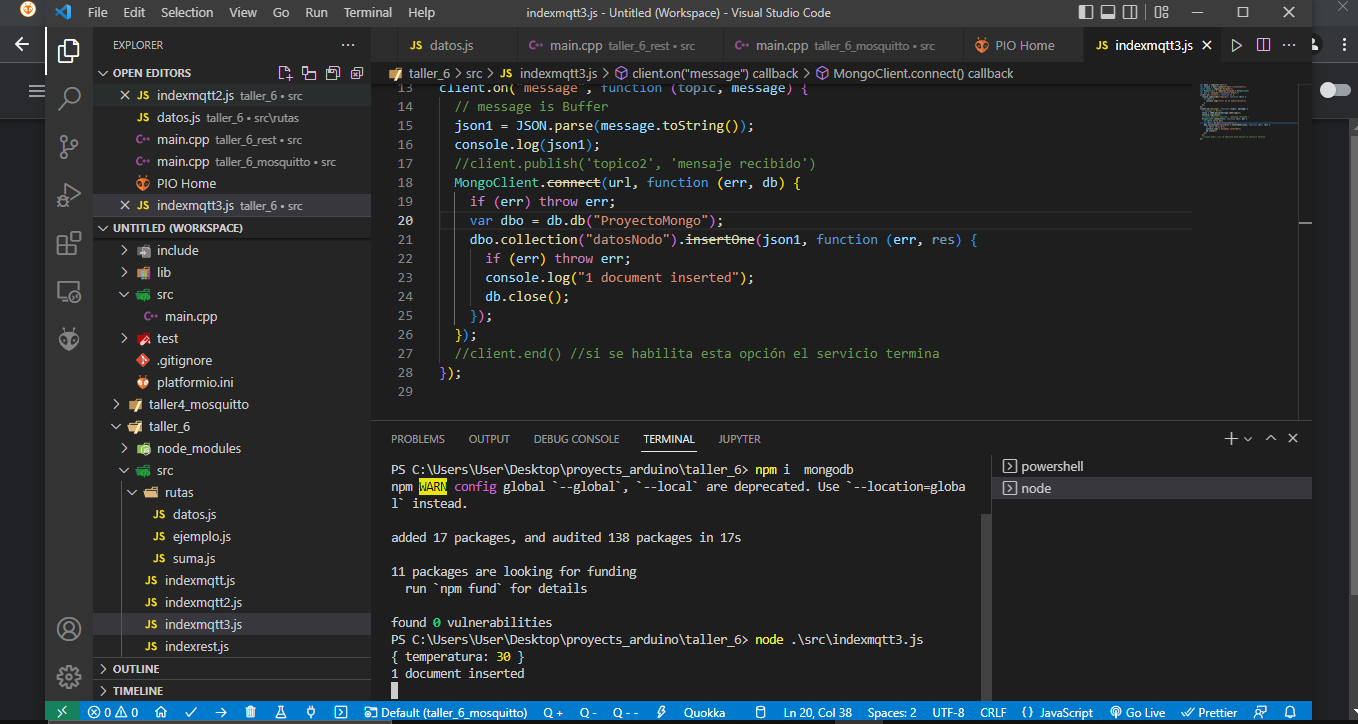








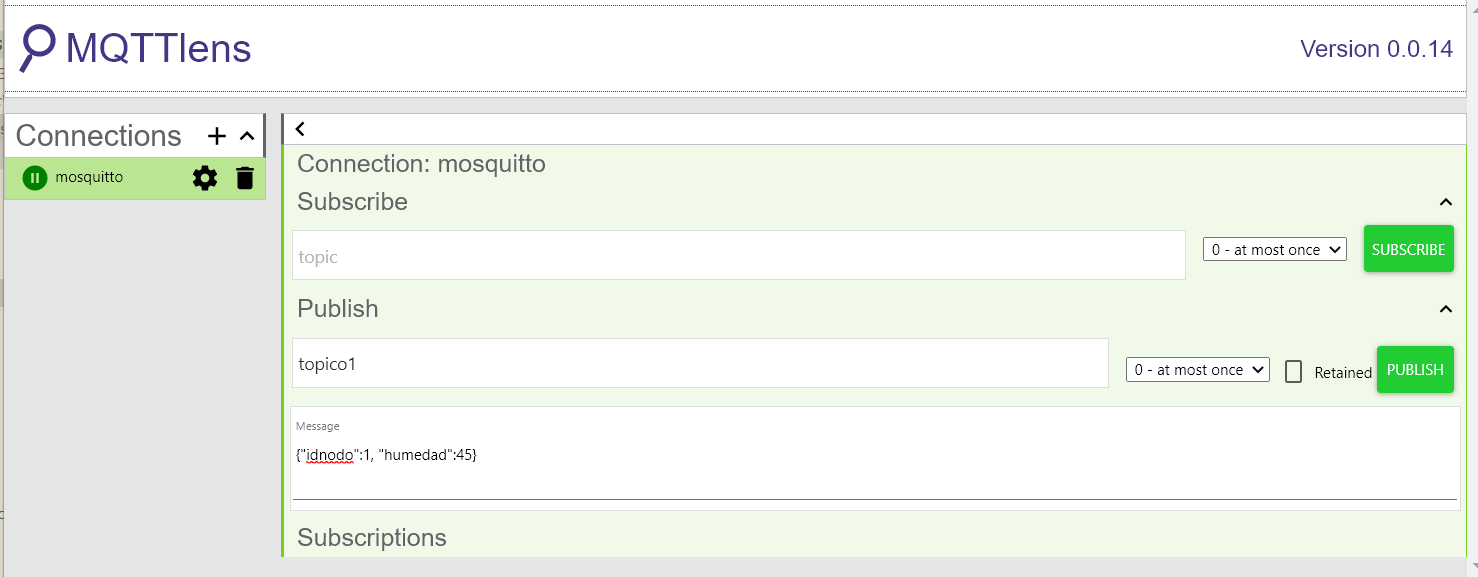




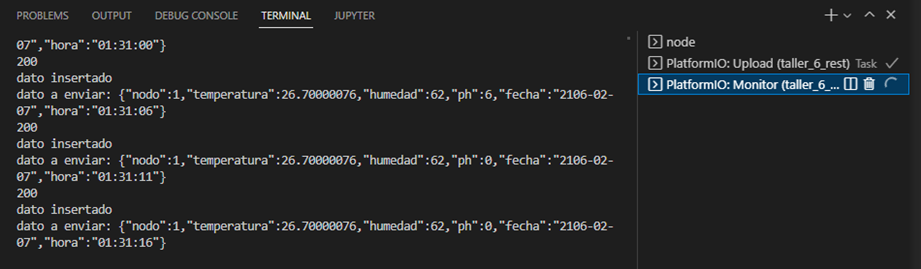
Interfaz de usuario gráfica, Texto, Aplicación, Correo electrónico

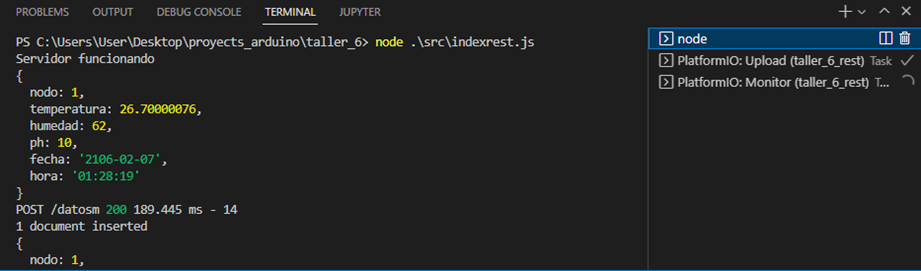
Descripción generada automáticamente

Otro:

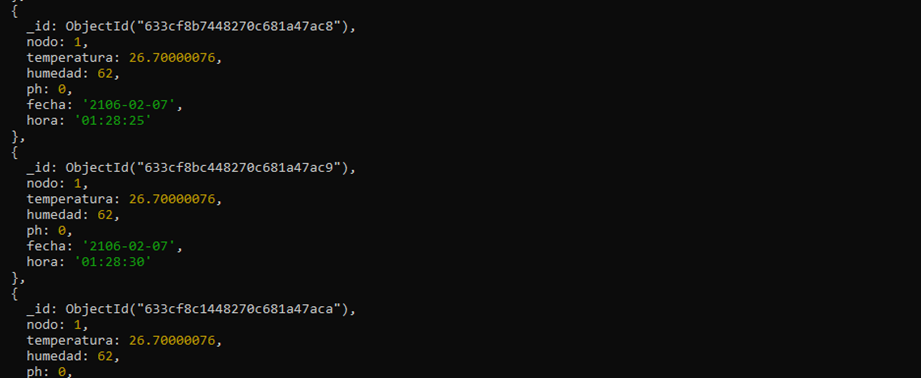


# Comprobación con objeto Iot Huertas Inteligentes

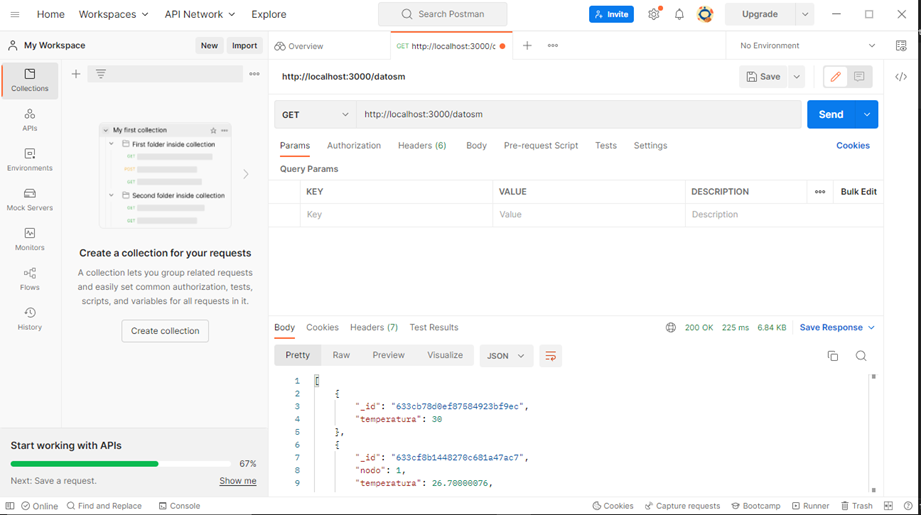




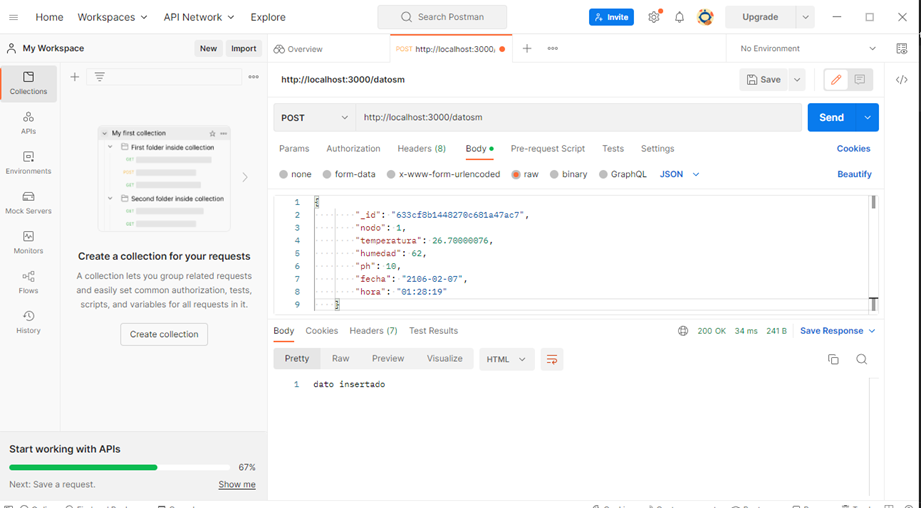




Con postman GET



Postman con POST



Código en ESP32:

#include <Arduino.h>

#include <ArduinoJson.h>

#include <HTTPClient.h>

//LIBRERIAS PARA DHT11 (TEMPERATURA Y HUMEDAD)

#include <Adafruit\_Sensor.h>

#include <DHT.h>

//LIBRERIAS PARA FECHA Y HORA

#include <WiFi.h>

//DEFINICION DE PINES DHT11

#define DHTPIN 14 // 4 = PIN D4

#define DHTTYPE DHT11

DHT dht(DHTPIN, DHTTYPE);

//potenciometro ph

const int portPin=34;

int valorPh=0;

const char\* ssid = "\*\*\*\*your\_wifi";//name wifi

const char\* password = "\*\*\*pasword\*wifi"; // clave de wifi

void setup\_wifi() {

delay(10);

// We start by connecting to a WiFi network

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");

Serial.println("IP address: ");

Serial.println(WiFi.localIP());

}

void setup() {

Serial.begin(9600); //Serial connection

setup\_wifi(); //WiFi connection

delay(1500);

}

void loop() {

//temperatura y humedad

float h= dht.readHumidity();

float t =dht.readTemperature();

//potenciometro ph

valorPh=analogRead(portPin)/292.5;

//----------------------

String variable;

int nodo\_numero = 1;

DynamicJsonDocument doc(1024); //creacion del json

doc["nodo"] = nodo\_numero;

doc["temperatura"] = t;

doc["humedad"] = h;

doc["ph"]=valorPh;

doc["fecha"] = "lunes";

doc["hora"] = "3:00 pm";

serializeJson(doc, variable);

Serial.println("dato a enviar: "+ variable);

HTTPClient http; //Declare object of class HTTPClient

WiFiClient client;

//Specify request destination

//http.begin(client,"URL DEL SERVIDOR");

//http.begin(client,"http://192.\*\*\*\*:3000/"); //para mosquito o mqtt

//http.begin(client,"http://192.\*\*\*\*:3000/datos");// para rest mysql

http.begin(client,"http://192.\*\*\*\*:3000/datosm");// mongo

http.addHeader("Content-Type", "application/json"); //Specify contenttype header

int httpCode = http.POST(variable); //Send the request

String payload = http.getString(); //Get the response payload

Serial.println(httpCode); //Print HTTP return code

Serial.println(payload); //Print request response payload

http.end(); //Close connection

delay(5000); //Send a request every 5 seconds

}