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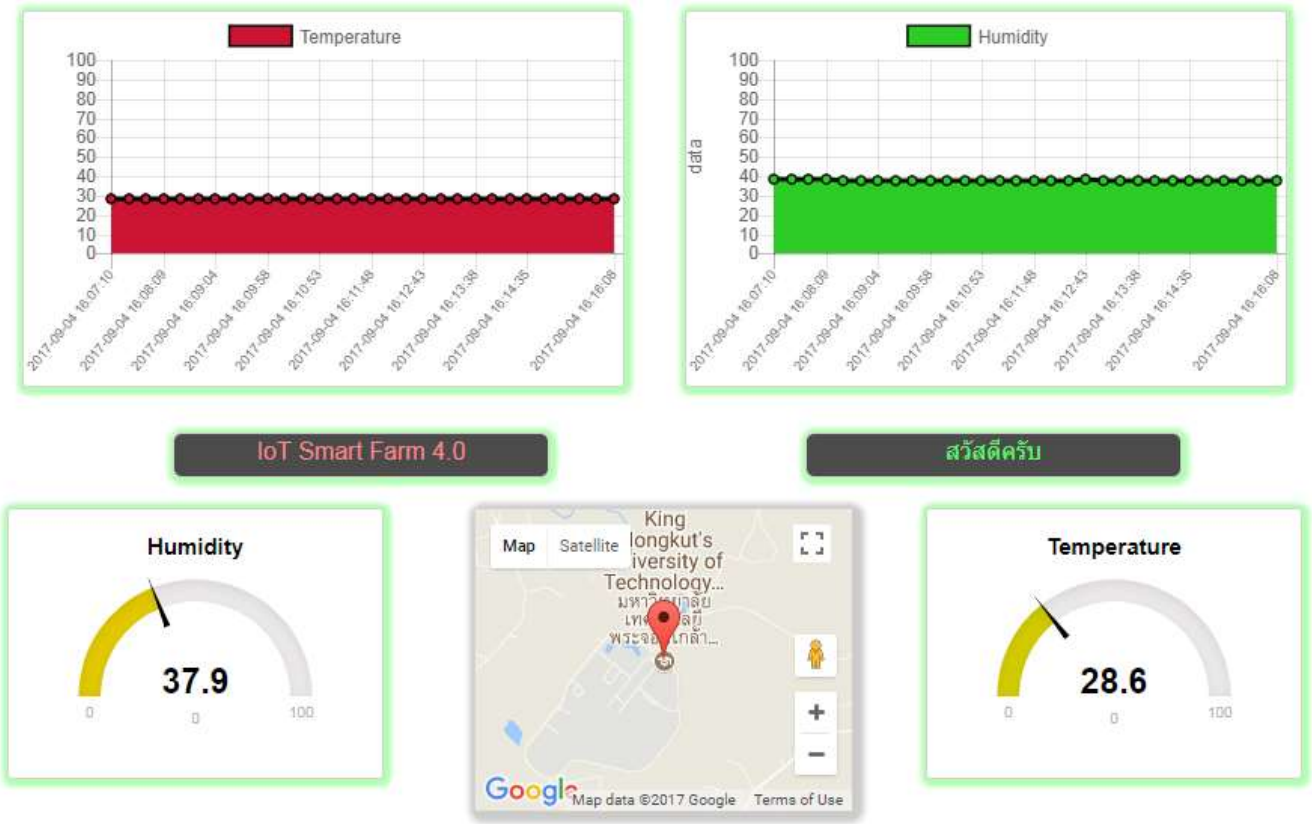
หน้าจอ IoTtweet



Code

```
// DHT Temperature & Humidity Sensor

// Unified Sensor Library Example

// Written by Tony DiCola for Adafruit Industries

// Released under an MIT license.


// Depends on the following Arduino libraries:

// - Adafruit Unified Sensor Library:
https://github.com/adafruit/Adafruit_Sensor

// - DHT Sensor Library: https://github.com/adafruit/DHT-sensor-library


#include <Adafruit_Sensor.h>

#include <DHT.h>

#include <DHT_U.h>


#define DHTPIN            2         // Pin which is connected to the DHT
sensor.


// Uncomment the type of sensor in use:
```

```
//#define DHTTYPE           DHT11     // DHT 11
#define DHTTYPE           DHT22     // DHT 22 (AM2302)
//#define DHTTYPE           DHT21     // DHT 21 (AM2301)

// See guide for details on sensor wiring and usage:
//   https://learn.adafruit.com/dht/overview

DHT_Unified dht(DHTPIN, DHTTYPE);

uint32_t delayMS;



#include <ESP8266WiFi.h>
#include <IoTtweet.h>

const char *userid = "000989";             //IoTtweet account user ID (6 digits, included zero pre-fix)
const char *key = "dl8iis1hbap6";     //IoTtweet registered device key in "MY IOT Garage"
const char *ssid = "FITM WiFi";                    //Your-WiFi-router-SSID
```

```
const char *password = "";              //Your-WiFi-password


float data0, data1, data2, data3;                       //Your sending data
variable.
String private_tweet = "สวัสดีครับ";                    //Your private tweet
meassage to dashboard  กดเลือก Tweet privaet panel
String public_tweet = "IoT Smart Farm 4.0";          //Your public tweet
message to dashboard  กดเลือก Tweet public panel


IoTtweet myiot;  //naming your devices




void setup() {
  Serial.begin(9600);
  // Initialize device.
  dht.begin();
  Serial.println("DHTxx Unified Sensor Example");
  // Print temperature sensor details.
```

```
  sensor_t sensor;
  dht.temperature().getSensor(&sensor);
  Serial.println("------------------------------------");
  Serial.println("Temperature");
  Serial.print  ("Sensor:       "); Serial.println(sensor.name);
  Serial.print  ("Driver Ver:   "); Serial.println(sensor.version);
  Serial.print  ("Unique ID:    "); Serial.println(sensor.sensor_id);
  Serial.print  ("Max Value:    "); Serial.print(sensor.max_value);
Serial.println(" *C");
  Serial.print  ("Min Value:    "); Serial.print(sensor.min_value);
Serial.println(" *C");
  Serial.print  ("Resolution:   "); Serial.print(sensor.resolution); Serial.println("
*C");
  Serial.println("------------------------------------");
  // Print humidity sensor details.
  dht.humidity().getSensor(&sensor);
  Serial.println("------------------------------------");
  Serial.println("Humidity");
  Serial.print  ("Sensor:       "); Serial.println(sensor.name);
  Serial.print  ("Driver Ver:   "); Serial.println(sensor.version);
```

```
  Serial.print  ("Unique ID:     "); Serial.println(sensor.sensor_id);
  Serial.print  ("Max Value:     "); Serial.print(sensor.max_value);
Serial.println("%");
  Serial.print  ("Min Value:     "); Serial.print(sensor.min_value);
Serial.println("%");
  Serial.print  ("Resolution:    "); Serial.print(sensor.resolution);
Serial.println("%");
  Serial.println("------------------------------------");
  // Set delay between sensor readings based on sensor details.
  delayMS = sensor.min_delay / 1000;

 String libvers = myiot.getVersion();
  Serial.println("IoTtweet Library vesion : " + String(libvers));

  //Connect WiFi
  Serial.println("\nConnect wifi...");
  bool conn = myiot.begin(ssid,password);

    if(!conn)
    {
```

```
      Serial.println("WiFi connection failed.");
    }else
    {
      Serial.println("WiFi connected !");
     }




}


void loop() {
  // Delay between measurements.
  delay(delayMS);
  // Get temperature event and print its value.
  sensors_event_t event;
  dht.temperature().getEvent(&event);
  if (isnan(event.temperature)) {
    Serial.println("Error reading temperature!");
```

```
}
else {
  Serial.print("Temperature: ");
  Serial.print(event.temperature);
  Serial.println(" *C");
  data0 = event.temperature ;
}
// Get humidity event and print its value.
dht.humidity().getEvent(&event);
if (isnan(event.relative_humidity)) {
  Serial.println("Error reading humidity!");
}
else {
  Serial.print("Humidity: ");
  Serial.print(event.relative_humidity);
  Serial.println("%");
  data1 = event.relative_humidity;
}
```

```
  //Example data generating



  data2 = random(45,55);

  data3 = random(60,70);


  //Send data from your iot to Dashboard

  String response =
myiot.WriteDashboard(userid,key,data0,data1,data2,data3,private_tweet,pu
blic_tweet);

  Serial.println(response);    //Show response JSON from www.iottweet.com


  //Waiting storage data on IoTtweet cloud 15 sec.

  delay(15000);




}
```