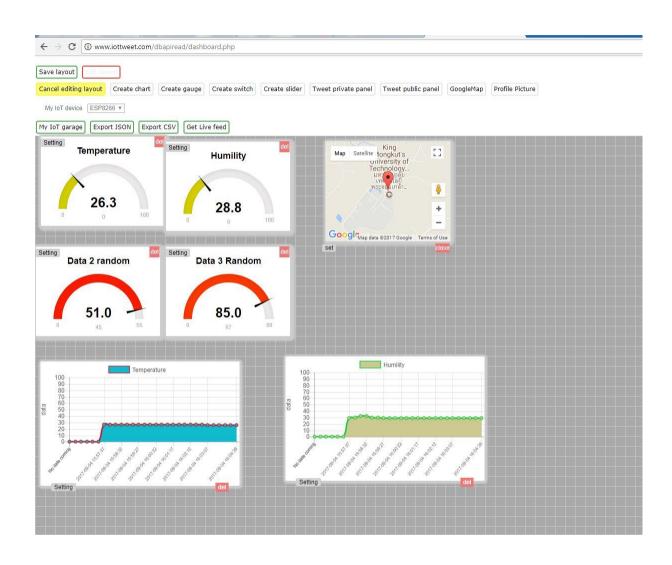
นายภานุรุจ จามะรีย์ 5706021632103 IT-3RC



```
DHT_Unified_Sensor
#include <Adafruit_Sensor.h>
#include <DHT.h>
#include <DHT_U.h>
#define DHTPIN
                      2
                                // Pin which is connected to the DHT sensor. ให้บา data เข้า pin 2
// Uncomment the type of sensor in use:
//#define DHTTYPE
                        DHT11 // DHT 11
                       DHT22 // DHT 22 (AM2302)
DHT21 // DHT 21 (AM2301)
#define DHTTYPE
                       DHT22
//#define DHTTYPE
// 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 = "000993";
                                      //IoTtweet account user ID (6 digits, included zero pre-fix)
//Your-WiFi-router-SSID
                                   //Your-WiFi-password
const char *password = "";
float data0, data1, data2, data3;
                                                    //Your sending data variable.
String private_tweet = "สาัสดิตรับ";
String public_tweet = "IoT Smart Farm 4.0";
                                                //Your private tweet meassage to dashboard กดเลือก Tweet privaet panel
                                              //Your public tweet message to dashboard กิดเลือก Tweet public panel
IoTtweet myiot; //naming your devices
void setup() {
 Serial.begin(9600); //ให้เริ่มแสดงที่จอเราเอง
  // 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(sensor.min_value); Serial.println("%");
Serial.print ("Min Value:
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 !");
```

1

```
void loop() {
 // Delay between measurements.
 delay(delayMS);
 // Get temperature event and print its value.
 sensors_event_t event;
 dht.temperature().getEvent(sevent);
 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(67,99);
 //Send data from your iot to Dashboard
  String response = myiot.WriteDashboard(userid, key, data0, data1, data2, data3, private_tweet, public_tweet);
 Serial.println(response); //Show response JSON from www.iottweet.com
 //Waiting storage data on IoTtweet cloud 15 sec.
 delay(15000);
```