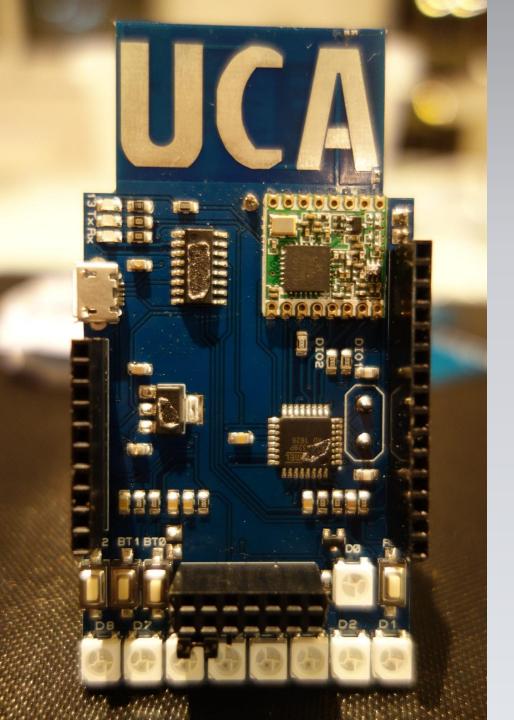


Sommaire

- Présentation du projet
- Problématique
- > Listes des composants
- > Réseau et communication
- ➤ Code et Explications
- Design



Présentation du projet

Problématique

Récupérer les données depuis

Détecteur de mouvement non précis (faux positif)

Traiter les données

Listes des composants



Capteur de mouvement



Capteur de luminosité



Capteur de température & humidité

Réseau et communications







```
________ modifier_ob.
mirror object to mirror
mirror_object
peration == "MIRROR_X":
mirror_mod.use_x = True
mirror_mod.use_y = False
irror_mod.use_z = False
 _operation == "MIRROR_Y"
!rror_mod.use_x = False
 lrror_mod.use_y = True
 "Irror_mod.use_z = False
 _operation == "MIRROR_Z";
 __mod.use_x = False
  lrror_mod.use_y = False
 __rror_mod.use_z = True
 election at the end -add
  ob.select= 1
   er ob.select=1
   ntext.scene.objects.action
  "Selected" + str(modifier
   irror ob.select = 0
  bpy.context.selected_obj
  Mata.objects[one.name].sel
 int("please select exactle
  OPERATOR CLASSES ----
   vpes.Operator):
    X mirror to the selected
   ject.mirror_mirror_x"
```

Code et Explications

```
float readLight() {
    float result;
    float sensorValue = analogRead(A3);
   float voltage = sensorValue * (3.30 / 1023.0);
    result = voltage * 2000;
    return result;
/*void movementReader() {
   if (digitalRead(2) == LOW) {
       Serial.println("Mouvement non détecté");
       pir = false;
        return pir;
   else if (digitalRead(2) == HIGH) {
       Serial.println("Mouvement détecté");
       pir = true;
       return pir;
void updateEnvParameters()
    int temperature = sensor.getCelsiusHundredths();
    temp = temperature / 100;
   humidity = sensor.getHumidityPercent();
    light = readLight();
   Serial.print(temp); Serial.println("°C");
   Serial.print(humidity); Serial.println("%");
   Serial.print(light); Serial.println("lux");
```

Code Arduino

Overview Devices Payload Formats Integrations Data Setti

INTEGRATION OVERVIEW

Process ID home_connect

Status • Running

Author The Things Industries B.V.

Description Sends uplink data to an endpoint and receives downlink data over HTTP.

TTN vers Web

Récupération en PHP

```
mirror object to mirror
mirror_object
 peration == "MIRROR_X":
 mirror_mod.use_x = True
 mirror_mod.use_y = False
_operation == "MIRROR_Y"
  irror_mod.use_x = False
  "Irror_mod.use_y = True"
   lrror_mod.use_z = False
       _operation == "MIRROR_Z";
          _rror_mod.use_x = False
           rror_mod.use_y = False
        lrror_mod.use_z = True
       selection at the end -add
            ob.select= 1
           er ob.select=1
            ntext.scene.objects.action
           "Selected" + str(modification
             irror ob.select = 0
        bpy.context.selected_obj
          Mata.objects[one.name].sel
        int("please select exactle
         --- OPERATOR CLASSES ----
              ypes.Operator):
                  X mirror to the selected
           ject.mirror_mirror_x"
     ontext):
    ontext

onte
```

// Insertion des varibles dans la table homeconnect data de notre base de données MySQL via requêtes préparées : fonctions prepare et execute (propre au PDO)

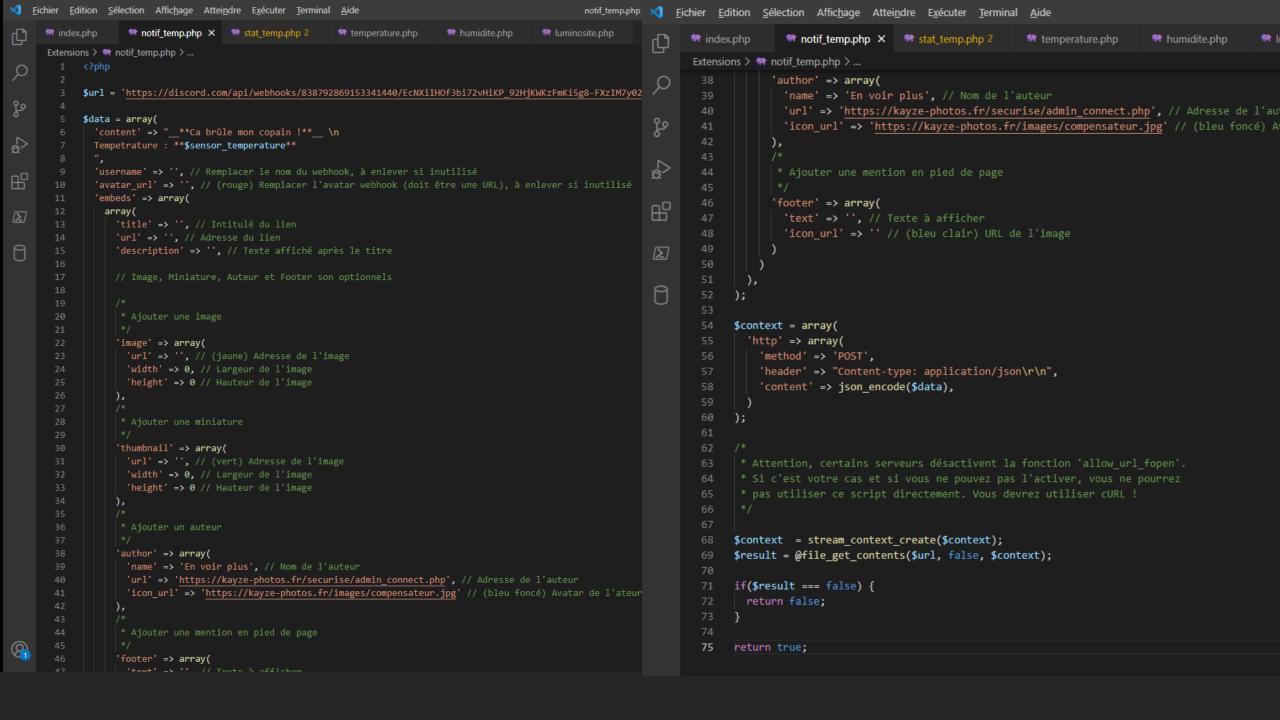
\$insertbdd->execute(array(\$server datetime, \$ttn app id, \$ttn dev id, \$ttn time, \$jour,\$heure, \$sensor temperature, \$sensor humidity, \$sensor luminosity));

\$insertbdd = \$bdd->prepare("INSERT INTO homeconnect_data(datetime, app_id, dev_id, ttn_time, jour,heure, temperature, humidity, luminosity) VALUES(?, ?, ?, ?, ?, ?, ?, ?, ?, ?)");

// pour plus de sécurité (injection SQL) et plus de rapidité.

```
__modifier_ob.
mirror object to mirror
mirror_object
  peration == "MIRROR_X":
  irror_mod.use_x = True
 mirror_mod.use_y = False
 mirror_mod.use_z = False
     _operation == "MIRROR_Y"
   !rror_mod.use_x = False
     lrror_mod.use_y = True
      "Irror_mod.use_z = False
       _operation == "MIRROR_Z";
        __mod.use_x = False
         _rror_mod.use_y = False
        __rror_mod.use_z = True
      election at the end -add
           ob.select= 1
            er ob.select=1
             ntext.scene.objects.action
            "Selected" + str(modified
                irror ob.select = 0
         bpy.context.selected ob
          lata.objects[one.name].sel
        int("please select exactle
         OPERATOR CLASSES ----
                vpes.Operator):
                  X mirror to the selected
             ject.mirror_mirror_x"
      ontext):
    object is not feet
    is no
```

De PHP vers Discord



Base de données



