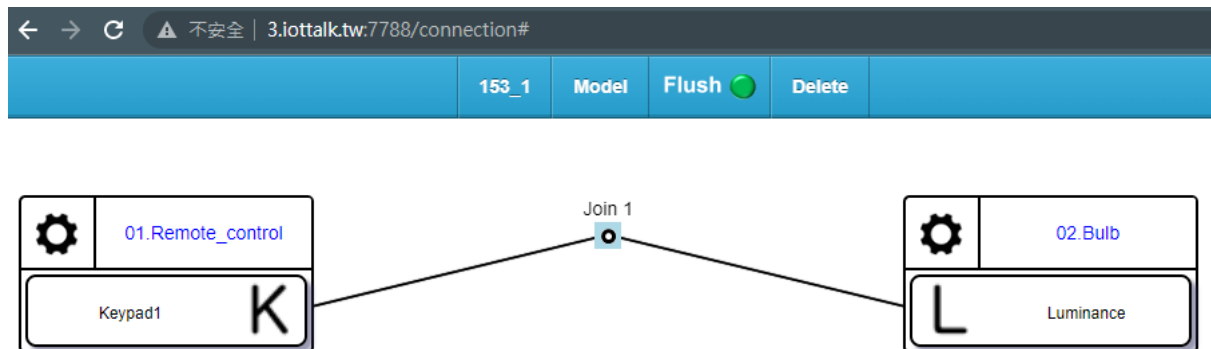


Part1:

1. 架構圖



2. 測試 auto scale

- 先按 0, 再按 2, 再按 1, 再按 0, 再按 8, 再按 2
- 再來依序按 1, 2, 3, 5, 7, 8, 9 之後自己隨便按按測試

3. Demo Video

<https://youtu.be/1z6n2-ttxVo>

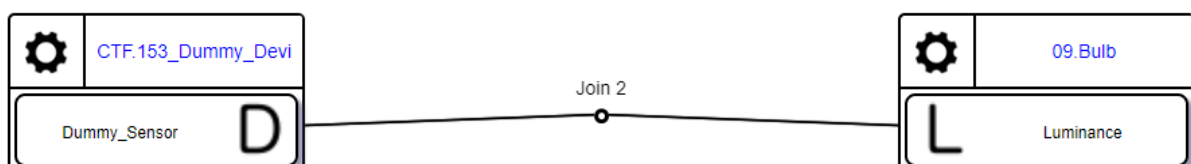
4. 加入 Dummy Device

Dummy_Device

Input Device Features
<input checked="" type="checkbox"/> Dummy_Sensor
Output Device Features
<input type="checkbox"/> Dummy_Control

SaveDelete

5. 架構圖



6. 都調成 Disable

Connection Name: Delete Save

Dummy_Device (IDF) Delete		
Dummy_Sensor	Type	Function
x1	sample ▼	disabled ▼

09.Bulb (ODF) Delete	
Luminance	Function
y1	x1 ▼

7. 修改 DAI2.py 程式碼

將 d_name 改成自己的名字 CTFang

```
Reg_addr = mac_addr # Note that the mac_addr generated in DAN.py always be the same cause using UUID !
DAN.profile['dm_name'] = 'Dummy_Device' # you can change this but should also add the DM in server
DAN.profile['df_list'] = ['Dummy_Sensor', 'Dummy_Control'] # Check IoTtalk to see what IDF/ODF the DM has
DAN.profile['d_name'] = "CTF." + str(random.randint(100,999 )) + "_" + DAN.profile['dm_name'] # None
DAN.device_registration_with_retry(ServerURL, Reg_addr)
```

8. Demo

<https://youtu.be/IBA10oOMJfs>

9. 心得

這次實驗讓我更了解 auto scale, 也嘗試到了用 python code 去控制 IoTtalk 上的 Device, 體驗到這個平台的厲害。

Part2:

1. 下載 Buld 程式碼 <https://github.com/IoTtalk/Bulb>
2. 修改 js/ida.js 檔案, 讓他連到正確的 Server

```
$(function () {
  csmapi.set_endpoint ('http://3.iottalk.tw:9999');
  var profile = {
    'dm_name': 'Bulb',
    'idf_list': [],
    'odf_list': [Luminance, Color_0],
  }
})
```

3. 修改 js/ida.js 的 RGB Function 值, 讓他為不一樣的顏色

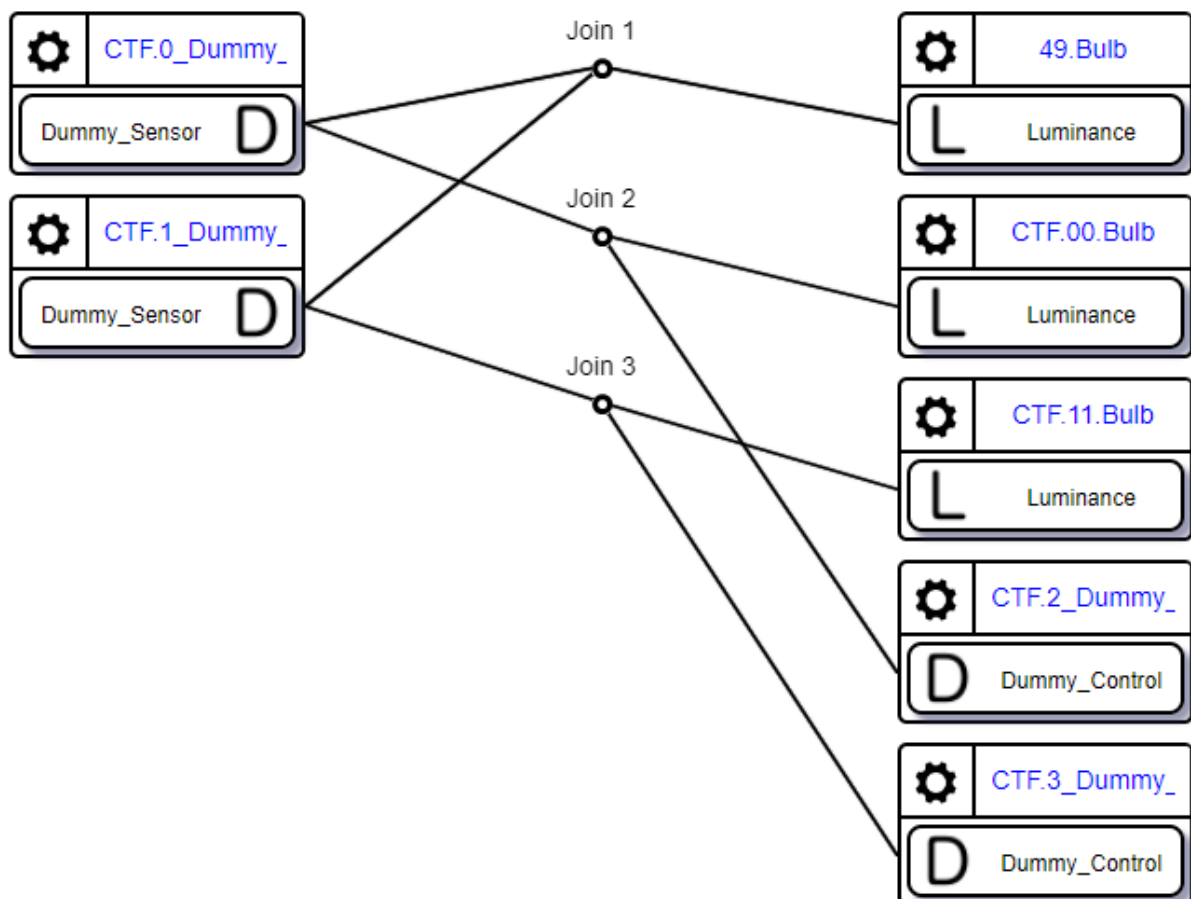
```
var r = 0;
var g = 255;
var b = 255;
var lum = 100;

var r = 255;
var g = 0;
var b = 255;
var lum = 100;
```

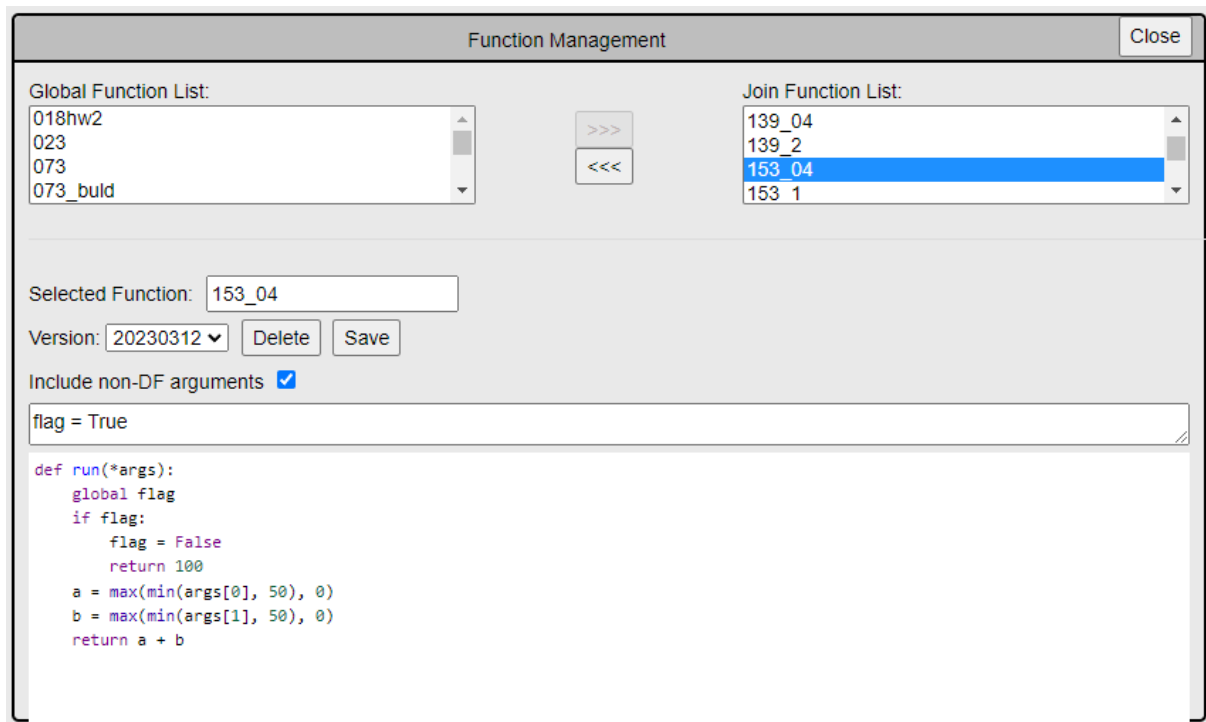
4. 修改 js/dan.js 裡面的名字, 為燈泡的名字

```
function register (endpoint, profile, callback) {
  profile['d_name'] = 'CTF.00.' + profile['dm_name'];
  _profile = profile;
  csmapi.set_endpoint(endpoint);
}
```

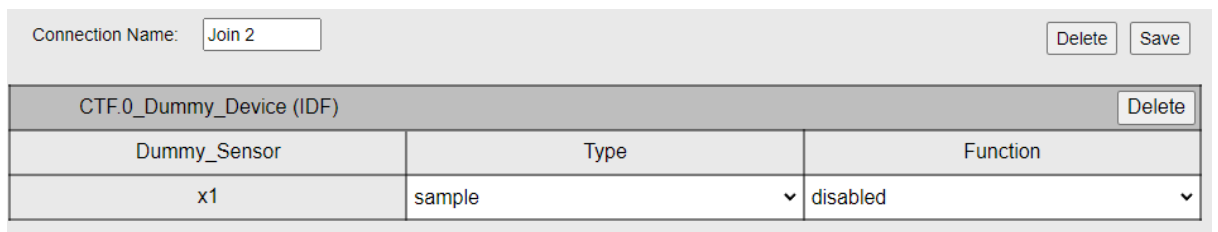
5. 架構圖



6. Join Function, 並使用全域變數 flag



7. Join2 & Join3 都設為 Disable



8. Demo

<https://youtu.be/m04ZmNBoXMs>

9. 心得

這次作業明顯比上兩次複雜許多，不僅是要花很多時間才能理解要做甚麼，也要花一些時間才能找到自己設定上的問題，但透過這次，可以自訂義裝置透過此平台連結，這個平台的發展性又更大了!!

(因為截圖不好看出變化，所以以影片代替規定數量的截圖!)