API Document

GetACData

```
[GET]
https://aiot-task-api.azurewebsites.net/api/GetACData
```

Features

取得冷氣溫度

Parameter

• air_id:冷氣id

• time: 24H時間 (yyyy/MM/dd_HH:mm:ss)

Return

• temperature:冷氣溫度

Example

https://aiot-task-api.azurewebsites.net/api/GetACData?air_id=1&time=2021/01/27 03:15:00

SetACData

```
[POST]
https://aiot-task-api.azurewebsites.net/api/SetACData
```

Features

設定冷氣資料

Parameter

- factory_id: 廠房id (需在factory table裡有)
- air_id : 冷氣id
- time: 24H時間 (yyyy/MM/dd_HH:mm:ss)
- temperature:溫度

Return

• status code

Example

```
import requests

url = "https://aiot-task-api.azurewebsites.net/api/SetACData"

payload = "------WebKitFormBoundary7MA4YWxkTrZu0gW\r\nContent-Disposition: form-data; name=\"factory_id\"\r\n\r\n1\r\n------Web headers = {
    'content-type': "multipart/form-data; boundary=----WebKitFormBoundary7MA4YWxkTrZu0gW",
    'cache-control': "no-cache",
    'postman-token': "51f673b0-2ee2-369f-6279-da084c5b83e6"
}
```

```
response = requests.request("POST", url, data=payload, headers=headers)
print(response.text)
```

GetENVData

```
[GET]
https://aiot-task-api.azurewebsites.net/api/GetENVData
```

```
[GET]
https://aiot-task-api.azurewebsites.net/api/GetENVData
```

Features

取得環境溫度

Parameter

• env_id: AVNET編號

• time: 24H時間 (yyyy/MM/dd_HH:mm:ss)

Return

temperature:環境溫度humidity:環境濕度co2:環境二氧化碳

Example

https://aiot-task-api.azurewebsites.net/api/GetENVData?env_id=1&time=2021/01/27_03:15:00

SetENVData

```
[POST]
https://aiot-task-api.azurewebsites.net/api/SetENVData?code=ZloTdKVMQQhumzBefI5UKaeLrnhIIPe5x2vtw5yfa2aUXCgeXGVCaA==
```

Features

設定廠房內環境資料

Parameter

• factory_id: 廠房id (需在factory table裡有)

• env_id:環境id

• time: 24H時間 (yyyy/MM/dd_HH:mm:ss)

temperature: 溫度humidity: 濕度

• co2:二氧化碳

[可選] machine_num:每個環境機台數量[可選] employee_num:每個環境員工數量

Return

· status code

Example

```
import requests

url = "https://aiot-task-api.azurewebsites.net/api/SetENVData"

querystring = {"code":"ZloTdKVMQQhumzBefI5UKaeLrnhIIPe5x2vtw5yfa2aUXCgeXGVCaA=="}

payload = "------WebKitFormBoundary7MA4YWxkTrZu0gW\r\nContent-Disposition: form-data; name=\"factory_id\"\r\n\r\n1\r\n------Web headers = {
    'content-type': "multipart/form-data; boundary=----WebKitFormBoundary7MA4YWxkTrZu0gW",
    'cache-control': "no-cache",
    'postman-token': "5dc5e068-410e-9e87-b180-c7fad0eb5d45"
}

response = requests.request("POST", url, data=payload, headers=headers, params=querystring)

print(response.text)
```

GetEXTData

```
[GET]
https://aiot-task-api.azurewebsites.net/api/GetEXTData
```

Features

取得室外區域環境資料

Parameter

• time: 24H時間(yyyy/MM/dd_HH:mm:ss)

• area:所在區域(e.g.新竹)

Return

• temperature:環境溫度

• humidity:環境濕度(-1代表沒有資料)

• co2:環境二氧化碳 (-1代表沒有資料)

Example

https://aiot-task-api.azurewebsites.net/api/GetEXTData?time=2021/01/25_00:00:00&area=新竹

SetEXTData

```
[POST]
https://aiot-task-api.azurewebsites.net/api/SetEXTData
```

Features

設定室外區域環境資料

Parameter

• time: 24H時間 (yyyy/MM/dd_HH:mm:ss)

• temperature: 溫度

• [可選] humidity:濕度

• [可選] co2: 二氧化碳

• area:所在區域(e.g.新竹)

Return

· status code

Example

```
import requests

url = "https://aiot-task-api.azurewebsites.net/api/SetEXTData"

payload = "------WebKitFormBoundary7MA4YWxkTrZu0gW\r\nContent-Disposition: form-data; name=\"time\"\r\n\r\n2021/1/25_01:00:00\r
headers = {
        'content-type': "multipart/form-data; boundary=----WebKitFormBoundary7MA4YWxkTrZu0gW",
        'cache-control': "no-cache",
        'postman-token': "6051ee59-e89a-84d5-b971-7c41b4367be9"
}

response = requests.request("POST", url, data=payload, headers=headers)

print(response.text)
```

GetWeights

```
[GET]
https://aiot-task-api.azurewebsites.net/api/GetWeights
```

Features

取得環境和冷氣的權重

Parameter

- factory_id
- env_id
- air_id

Return

distance:冷氣和環境的距離weight:冷氣和環境的權重

Example

 $\underline{https://aiot-task-api.azurewebsites.net/api/GetWeights?factory_id=1\&air_id=1\&env_id=1$

SetWeights

```
[POST]
https://aiot-task-api.azurewebsites.net/api/SetWeights
```

Features

設定環境和冷氣的距離和權重

如果是已經存在的id組合,會自動改為"更新"

Parameter

- factory_id
- env_id
- air_id
- distance
- weight

Return

· status code

Example