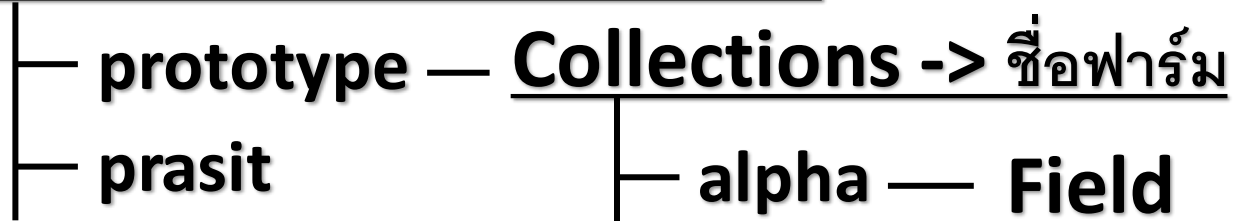


MongoDB

Databases -> ชื่อของ user



API สำหรับทดสอบ

203.151.136.201:10005/api/ชื่อ user (database)/ชื่อฟาร์ม (collection) / ชื่อฟิลด์

203.151.136.201:10005/api/prototype/alpha/node1

Field

— user_detail

```
{
  "_id" : "xxxxxxxxxxxx",
  "package": "xxxxxx",
  "users_numbers": 0,
  "gateway": "true or false",
  "analytics": "true or false",
  "block_chain": "true or false",
  "create_date": "xx-xx-xxxx",
  "expired_date": "xx-xx-xxxx",
  "node_number" : 0,
  "parameter_number" : 0,
  "dashboard_number" : 0
}
```

— farm_detail

```
{
  "_id": "xx",
  "plant_type": "xxxx",
  "plant_date": "xx-xx-xxxx",
  "harvest_date": "xx-xx-xxxx",
  "plant_number": "xx",
  "harvest_number": "xx",
  "price": "xx"
}
```

— node1

```
{
  "_id": "xx",
  "status": "true or false",
  "create_date": "xx-xx-xxxx",
  "refresh_time": 0,
  "data": {
    "temperature": 0,
    "humidity": 0,
    "moisture": 0,
    "ec": 0,
    "light": 0,
    "rain_volume": 0,
    "wind_speed": 0,
    "wind_direction": 0,
    "pm2.5": 0,
    "pm10": 0,
    "co2": 0
  },
  "data_time": "xx-xx-xxxx",
  "relay1": {
    "status": "true or false",
    "time_funtion": "true or false",
    "time1": ["00.00", "00.05", 0, 1, 1, 1, 1, 0],
    "time2": ["00.00", "00.05", 0, 1, 1, 1, 1, 0],
    "time3": ["00.00", "00.05", 0, 1, 1, 1, 1, 0],
    "data_function": "true or false",
    "data1": {
      "max" : 0,
      "min" : 0
    },
    "data2": {
      "max" : 0,
      "min" : 0
    }
  },
  "relay2": {
    "status": "true or false",
    "time_funtion": "true or false",
    "time1": ["00.00", "00.05", 0, 1, 1, 1, 1, 0],
    "time2": ["00.00", "00.05", 0, 1, 1, 1, 1, 0],
    "time3": ["00.00", "00.05", 0, 1, 1, 1, 1, 0],
    "data_function": "true or false",
    "data1": {
      "max" : 0,
      "min" : 0
    },
    "data2": {
      "max" : 0,
      "min" : 0
    }
  },
  "relay3": {
    "status": "true or false",
    "time_funtion": "true or false",
    "time1": ["00.00", "00.05", 0, 1, 1, 1, 1, 0],
    "time2": ["00.00", "00.05", 0, 1, 1, 1, 1, 0],
    "time3": ["00.00", "00.05", 0, 1, 1, 1, 1, 0],
    "data_function": "true or false",
    "data1": {
      "max" : 0,
      "min" : 0
    },
    "data2": {
      "max" : 0,
      "min" : 0
    }
  }
}
```

Timestamp

**Home**

Overview



Farm1



Node1

Node2

Farm2



Node1

Node2

Organization

Logo
Farm

Farm Name : XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Customer Detail

Create : XXXX-XX-XX

Customer Name : XXXXXXXXXXXXXXXX

Package : XXXXXXXX

Q'ty Users : XX

Gateway : Yes or No

Analytics : Yes or No

Block Chain : Yes or No

Expired Date : XXXX-XX-XX

Farm Detail

Number Farm : XX

Number Node : XX

Number Parameter : XX

Number Dashboard : XX

อยู่ระหว่างพิจารณา

Home

Overview

Farm1

Node1

Node2

Farm2

Node1

Node2

Organization

Farm 1

Create : XXXX-XX-XX

Farm Name : XX

Number Node : XX

Number Parameter : XX

Number Dashboard : XX

Gateway : Yes or No

Analytics : Yes or No

Block Chain : Yes or No

Farm 2

Create : XXXX-XX-XX

Farm Name : XX

Number Node : XX

Number Parameter : XX

Number Dashboard : XX

Gateway : Yes or No

Analytics : Yes or No

Block Chain : Yes or No

Farm 3

Create : XXXX-XX-XX

Farm Name : XX

Number Node : XX

Number Parameter : XX

Number Dashboard : XX

Gateway : Yes or No

Analytics : Yes or No

Block Chain : Yes or No

Farm 4

Create : XXXX-XX-XX

Farm Name : XX

Number Node : XX

Number Parameter : XX

Number Dashboard : XX

Gateway : Yes or No

Analytics : Yes or No

Block Chain : Yes or No

อยู่ระหว่าง
พิจารณา

Home

Overview ▼

Farm1 ▼

Node1

Node2

Farm2 ▼

Node1

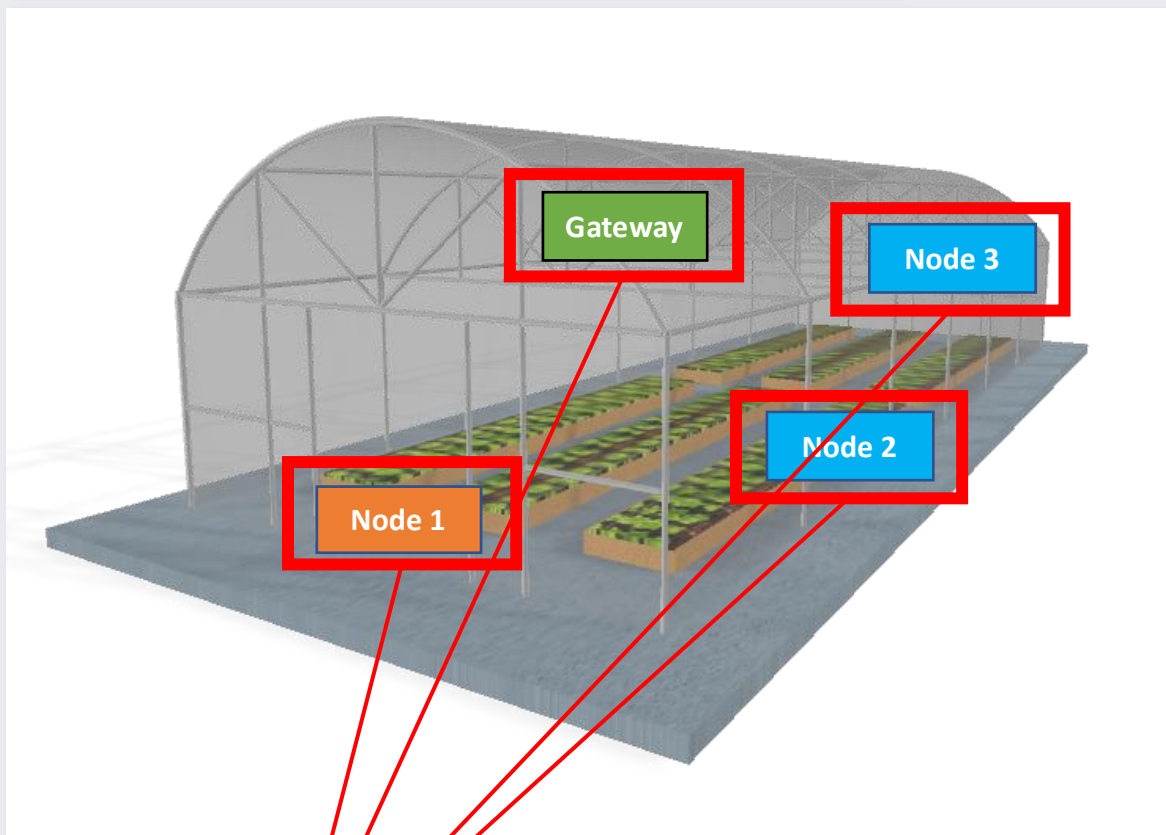
Node2

Organization

Farm 1 : XXXXXXXXXXXXXXXXXXXXXXXX

Refresh Dashboard

Dashboard



Detail Farm

ประเภทพืช :

ปลูกเมื่อ :

วันที่จะต้องเก็บเกี่ยว :

ประเภทปุ๋ย :

....

....

จำนวน :

ยอดเก็บเกี่ยว :

ราคาขาย :

ราคาในท้องตลาด (Web Scrap) :

GET Method

Link/api/username(database)/farm_name(collection)/farm_detail

Link/api/username(database)/farm_name(collection)/user_detail

Home

Overview ▼

Farm1 ▼

Node1

Node2

Farm2 ▼

Node1

Node2

Organization

Farm 1 : XXXXXXXXXXXXXXXXXXXXXXXXXXXX

Dashboard

Node1
Update Time : xx-xx-xxxx
Create : XXXX-XX-XX
Status : Online or Offline
Temp : XX
Humi : XX
Light : XX
Mois : XX
EC : XX
Relay 1 : ON or OFF
Relay 2 : ON or OFF
Relay 3 : ON or OFF
On/Off on Time : On or Off
On/Off on Data : On or Off

Edit



Gateway

Node 2

Node 1

PUT Method

Detail Farm

ประเภทพืช :

ปลูกเมื่อ :

วันที่จะต้องเก็บเกี่ยว :

ประเภทปุ๋ย :

....

....

จำนวน :

ยอดเก็บเกี่ยว :

ราคาขาย :

ราคาในท้องตลาด (Web Scrap) :

GET Method

link/api/update/user/farm_name/farm_detail

Link/api/username(database)/farm_name(collection)/node1

Home

Overview ▼

Farm1 ▼

Node1

Node2

Farm2 ▼

Node1

Node2

Organization

Node 1

Create : XXXX-XX-XX

Status Symbol (Online/Offline)

Update every : 5min Update Time : XXXX-XX-XX

Temperature : XX

Humidity : XX

Moisture : XX

EC : XX

Light : XX

Data_update : XX

Relay 1 Status ☒

On/Off on Time : ☒

Time 1 : On: 12:46 Off: 18:46

Time 2 : On: --:-- Off: --:--

Time 3 : On: --:-- Off: --:--

On/Off on Data : ☒

Data 1 : อุณหภูมิที่ต้งค่า

Min : 25

Max : 60

Data 2 :

Min : 30

Max : 66

Relay 2 Status ☒

On/Off on Time : ☒

Time 1 : On: 12:46 Off: 18:46

Time 2 : On: --:-- Off: --:--

Time 3 : On: --:-- Off: --:--

On/Off on Data : ☒

Data 1 : ความชื้นดิน

Min : 25

Max : 60

Data 2 :

Min : 30

Max : 66

Relay 3 Status ☒

On/Off on Time : ☒

Time 1 : On: 12:46 Off: 18:46

Time 2 : On: --:-- Off: --:--

Time 3 : On: --:-- Off: --:--

On/Off on Data : ☒

Data 1 : ความชื้นอากาศ

Min : 25

Max : 60

Data 2 :

Min : 30

Max : 66

Link/api/username(database)/farm_name(collection)/node1

GET Method

Relay 1

Status ☒

On/Off on Time : ☒

Time 1 : On: 12:46 Off: 18:46

Time 2 : On: --:-- Off: --:--

Time 3 : On: --:-- Off: --:--

On/Off on Data : ☒

Data 1 :

Min : 25

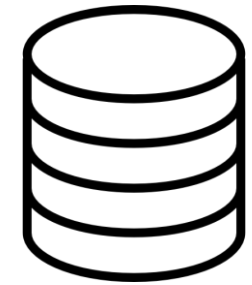
Max : 60

Data 2 :

Min : 30

Max : 66

PUT Method
 link/api/update/user(database)/farm_name(collection)/node{n}/relay



Database

Broker IP
 203.151.136.201:9001

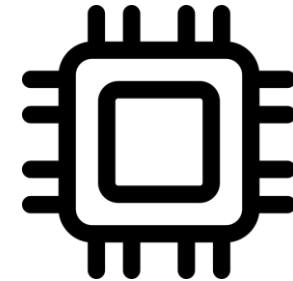
203.151.136.201:9001



Subscribe

MQTT

Publish



Device

Publish

Websocket

Subscribe

Publish

Topic = update/user(database)/farm_name(collection)/node{n}/relay
payload = { "relay1" : { "status" : Boolean } }

Subscribe

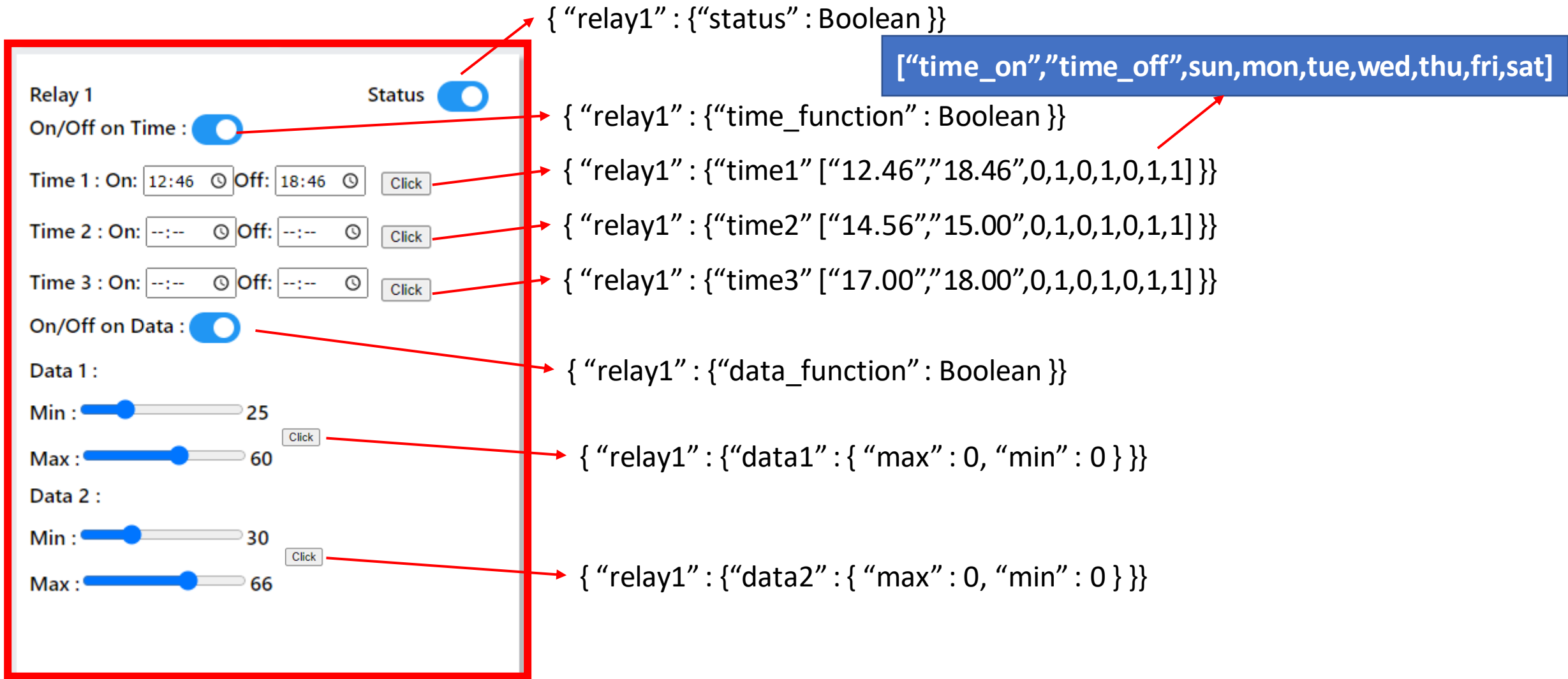
Topic = device/user(database)/farm_name(collection)/node{n}/relay

Subscribe

Topic = /update/user(database)/farm_name(collection)/node{n}/relay

Publish

Topic = device/user(database)/farm_name(collection)/node{n}/relay
payload = { "relay1" : { "status" : Boolean } }



```

{
  "_id": "node1",
  "status": false,
  "create_date": "25-05-2021",
  "refresh_time": 60,
  "data": {
    "temperature": 25,
    "humidity": 65,
    "moisture": 50,
    "ec": 4,
    "light": 12000,
    "rain_volume": 2,
    "wind_speed": 2,
    "wind_direction": 125,
    "pm2.5": 4,
    "pm10": 105,
    "co2": 300
  },
  "relay1": {
    "status": false,
    "time_function": false,
    "time1": ["7.46", "7.51", 0,1,1,1,1,0],
    "time2": ["9.46", "9.51", 0,1,1,1,1,0],
    "time3": ["10.46", "10.51", 0,1,1,1,1,0],
    "data_function": false,
    "data1": {
      "max": 35,
      "min": 30
    },
    "data2": {
      "max": 35,
      "min": 30
    }
  }
}

```

```

"relay2": {
  "status": false,
  "time_function": false,
  "time1": ["7.46", "7.51", 0,1,1,1,1,0],
  "time2": ["9.46", "9.51", 0,1,1,1,1,0],
  "time3": ["10.46", "10.51", 0,1,1,1,1,0],
  "data_function": false,
  "data1": {
    "max": 35,
    "min": 30
  },
  "data2": {
    "max": 35,
    "min": 30
  }
},
"relay3": {
  "status": false,
  "time_function": false,
  "time1": ["7.46", "7.51", 0,1,1,1,1,0],
  "time2": ["9.46", "9.51", 0,1,1,1,1,0],
  "time3": ["10.46", "10.51", 0,1,1,1,1,0],
  "data_function": false,
  "data1": {
    "max": 35,
    "min": 30
  },
  "data2": {
    "max": 35,
    "min": 30
  }
}
}

```