

การสร้าง MQTT Server บน Raspberry Pi เพื่อใช้งาน Chatbot LINE ในฟาร์มอัจฉริยะ
Chatbot LINE from Raspberry Pi MQTT Server for Smart Farming

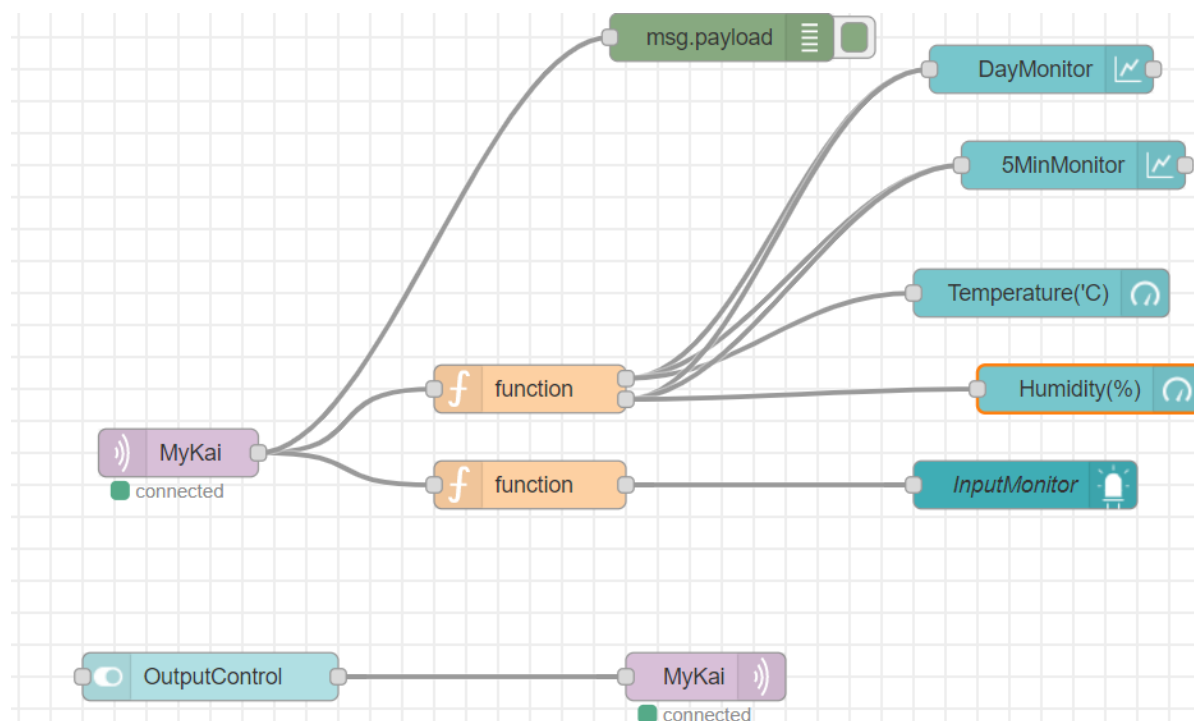
ชื่อ-สกุล : นายอติชาติ ภูนิเทศ

6/6 - คำถามท้ายบทเพื่อทดสอบความเข้าใจ

Quiz_401 – RPi Smart Farm

- แสดงรูป โปรแกรม ของผลการทำงานตามหัวข้อ การสร้าง UI ด้วย Node-RED สำหรับฟาร์มอัจฉริยะ

Capture Node-RED Flow



Node-RED Code

```
[{"id":"8d8ede65.bc90c", "type":"tab", "label":"Flow1", "disabled":false, "info":""}, {"id":"dcd518f7.44c468", "type":"function", "z":"8d8ede65.bc90c", "name":"","func":"// Tempp=38.20,Humid=73.52\n\nnvar msg1 = {};\nvar msg2 = {};\n\nnvar output = msg.payload.split('\\n','\\n');\n\nnvar sTempp = output[0].split('=');\nmsg1.payload = sTempp[1];\nmsg1.topic = 'Temperature';\n\nnvar sHumid = output[1].split('=');\nmsg2.payload = sHumid[1];\nmsg2.topic = 'Humidity';\n\nreturn [msg1,msg2];", "outputs":2, "noerr":0, "initialize":"","finalize":"","libs":[], "x":440, "y":320, "wires":[["22416fe0b902b043", "f0e322f8b1097b42", "05a82fd18a4728d5"], ["22416fe0b902b043", "f0e322f8b1097b42", "78de3447ca940e8d"]], {"id":"148b7d53.08ad13", "type":"ui_switch", "z":"8d8ede65.bc90c", "name":"","label":"OutputControl", "tooltip":"","group":"67163726.764658", "order":2, "width":5, "height":1, "passthru":true, "decouple":false, "topic":"topic", "topicType":"msg", "style":"","onvalue":"ON1", "onvalueType":"str", "onicon":"","oncolor":"","offvalue":"OFF1", "offvalueType":"str", "officon":"","offcolor":"","animate":false, "className":"","x":240, "y":500, "wires":[["3ef58f2160a45ee6"]], {"id":"d74c2697.e45cb8", "type":"function", "z":"8d8ede65.bc90c", "name":"","func":"\nvar stsNow = context.global.sts;\nif (msg.payload == 'ON1') {\n  stsNow = true;\n}\nif (msg.payload == 'OFF1') {\n  stsNow = false;\n}\nreturn stsNow;"}]
```


Home

Temperature(°C)

Humidity(%)

OutputControl

InputMonitor

5MinMonitor

DayMonitor

รูปการทดสอบ 2:

MQTTlens

Version 0.0.14

Connections + ^

test_MQTT

<

Connection: test_MQTT

Subscribe

MyKai

0 - at most once

SUBSCRIBE

Publish

topic

0 - at most once

Retained

PUBLISH

Message

Subscriptions

Topic: "MyKai" Showing the last 5 messages — +

Messages: 0/3

#	Time	Topic	QoS	Message
0	10:23:27	MyKai	0	Message: Tempp=42.44,Humid=76.13
1	10:23:32	MyKai	0	Message: Tempp=34.93,Humid=64.64
2	10:23:37	MyKai	0	Message: Tempp=44.91,Humid=68.91

รูปการทดสอบ 3

```

COM7
---> Temp=47.56,Humid=73.72
Publish message: Temp=38.24,Humid=77.73
Message arrived [MyKai] Temp=38.24,Humid=77.73
---> Temp=38.24,Humid=77.73
Publish message: Temp=46.65,Humid=61.66
Message arrived [MyKai] Temp=46.65,Humid=61.66
---> Temp=46.65,Humid=61.66
Publish message: Temp=30.71,Humid=66.19
Message arrived [MyKai] Temp=30.71,Humid=66.19
---> Temp=30.71,Humid=66.19
Publish message: Temp=40.16,Humid=79.24
Message arrived [MyKai] Temp=40.16,Humid=79.24
---> Temp=40.16,Humid=79.24
Publish message: Temp=44.44,Humid=67.54
Message arrived [MyKai] Temp=44.44,Humid=67.54
---> Temp=44.44,Humid=67.54
Publish message: Temp=49.22,Humid=61.50
Message arrived [MyKai] Temp=49.22,Humid=61.50
---> Temp=49.22,Humid=61.50

☒ Autoscroll ☐ Show timestamp
Newline 115200 baud Clear output

```

รูปการทดสอบ 4

Flow 8

debug

selected

```

23/5/2565 22:24:42 node: 68a033e01931ed55
MyKai : msg.payload : string[23]
"Temp=45.41,Humid=69.36"

23/5/2565 22:24:47 node: 68a033e01931ed55
MyKai : msg.payload : string[23]
"Temp=46.00,Humid=72.54"

23/5/2565 22:24:52 node: 68a033e01931ed55
MyKai : msg.payload : string[23]
"Temp=31.56,Humid=72.45"

23/5/2565 22:24:57 node: 68a033e01931ed55
MyKai : msg.payload : string[23]
"Temp=39.26,Humid=71.46"

23/5/2565 22:25:02 node: 68a033e01931ed55
MyKai : msg.payload : string[23]
"Temp=34.61,Humid=63.33"

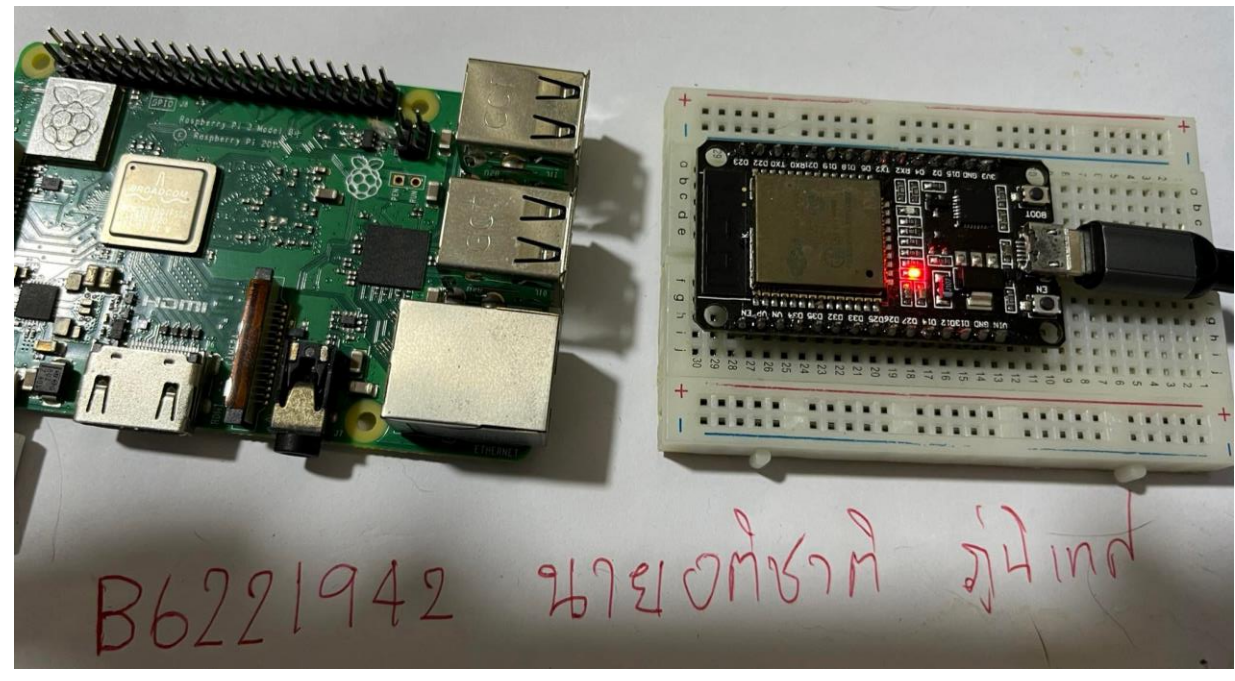
23/5/2565 22:25:07 node: 68a033e01931ed55
MyKai : msg.payload : string[23]
"Temp=41.65,Humid=78.61"

23/5/2565 22:25:12 node: 68a033e01931ed55
MyKai : msg.payload : string[23]
"Temp=30.83,Humid=73.41"

23/5/2565 22:25:17 node: 68a033e01931ed55

```

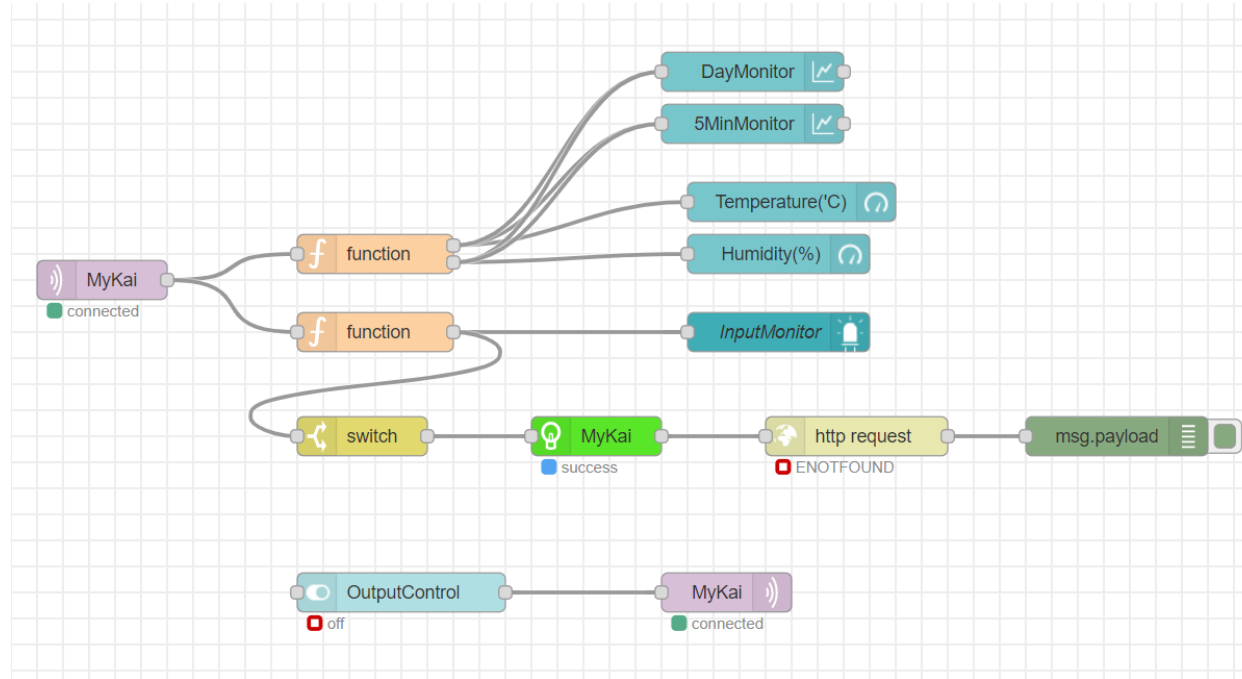
รูปการทดสอบ 5



Quiz_402 – LINE Notify

- แสดงรูป โปรแกรม ของผลการทำงานตามหัวข้อ การส่งข้อความด้วย Node-RED สำหรับฟาร์มอัจฉริยะ

Capture Node-RED Flow



Node-RED Code

```
[{"id":"28b4455c256d9df6","type":"tab","label":"Flow
1","disabled":false,"info":""},{
  "id":"490887627b3de72b","type":"function","z":"28b4455c256d9df6",
  "name":"","func":"// Tempp=38.20,Humid=73.52 \\n\\nvar msg1 = {}\\nvar msg2 = {}\\n\\nvar output
= msg.payload.split(\\\",\\\")\\n\\nvar sTempp = output[0].split(\\\"=\\\")\\nmsg1.payload =
sTempp[1]\\nmsg1.topic = 'Temperature'\\n\\nvar sHumid =output[1].split(\\\"=\\\")\\nmsg2.payload =
sHumid[1]\\nmsg2.topic = 'Humidity'\\n\\nreturn
[msg1,msg2];","outputs":2,"noerr":0,"initialize":"","finalize":"","libs":[],"x":300,"y":320,"wires":[["
80bcac2b78295083","30ae8e435d0c4c85","44d75aab6597dd1a"],["07f417f20c8f63a8","44d75aab65
97dd1a","30ae8e435d0c4c85"]]},{"id":"80bcac2b78295083","type":"ui_gauge","z":"28b4455c256d9
df6","name":"","group":"29de1dd2.698e12","order":2,"width":5,"height":4,"gtype":"gage","title
":"Temperature('C)","label":"","C","format":"{{value}}","min":0,"max":100,"colors":["#00b500","#e
6e600","#ca3838"],"seg1":"","seg2":"","x":620,"y":280,"wires":[]},{"id":"30ae8e435d0c4c85","type
":"ui_chart","z":"28b4455c256d9df6","name":"","group":"67163726.764658","order":1,"width":5,
"height":5,"label":"5MinMonitor","chartType":"line","legend":"true","xformat":"HH:mm:ss","interp
olate":"linear","nodata":"","dot":false,"ymin":0,"ymax":100,"removeOlder":5,"removeOlderPoi
nts":"","removeOlderUnit":"60","cutout":0,"useOneColor":false,"useUTC":false,"colors":["#1f77b4",
"#ff7f0e","#00ffef","#2ca02c","#98df8a","#d62728","#ff9896","#9467bd","#c5b0d5"],"outputs":1,"u
seDifferentColor":false,"x":590,"y":220,"wires":[]]},{"id":"44d75aab6597dd1a","type":"ui_chart","z
":"28b4455c256d9df6","name":"","group":"70b4a6cc.14fd78","order":0,"width":12,"height":5,"l
abel":"DayMonitor","chartType":"line","legend":"true","xformat":"HH:mm:ss","interpolate":"linear",
"nodata":"","dot":false,"ymin":0,"ymax":100,"removeOlder":1,"removeOlderPoints":"","remove
OlderUnit":"86400","cutout":0,"useOneColor":false,"useUTC":false,"colors":["#1f77b4","#ff7f0e","#0
0ffef","#2ca02c","#98df8a","#d62728","#ff9896","#9467bd","#c5b0d5"],"outputs":1,"useDifferentC
```

```

olor":false,"x":590,"y":180,"wires":[]},{id:"07f417f20c8f63a8","type":"ui_gauge","z":"28b4455c256d9df6","name":"","group":"29de1dd2.698e12","order":4,"width":5,"height":4,"gtype":"gage","title":"Humidity(%)","label":"%","format":"{{value}}","min":0,"max":100,"colors":["#00b500","#e6e600","#ca3838"],"seg1":"","seg2":"","x":610,"y":320,"wires":[]},{id:"d94404863d911216","type":"ui_led","z":"28b4455c256d9df6","order":2,"group":"67163726.764658","width":5,"height":2,"label":"InputMonitor","labelPlacement":"left","labelAlignment":"center","colorForValue":{"color":"#008000","value":"true","valueType":"bool"},"color":{"color":"#ff0000","value":"false","valueType":"bool"},"allowColorForValueInMessage":false,"shape":"circle","showGlow":true,"name":"InputMonitor","x":610,"y":380,"wires":[]},{id:"c0473131fbc0c7b6","type":"ui_switch","z":"28b4455c256d9df6","name":"","label":"OutputControl","tooltip":"","group":"67163726.764658","order":2,"width":5,"height":1,"passthru":true,"decouple":"false","topic":"topic","topicType":"msg","style":"","onvalue":"ON1","onvalueType":"str","onicon":"","oncolor":"","offvalue":"OFF1","offvalueType":"str","officon":"","offcolor":"","animate":false,"className":"","x":320,"y":580,"wires":[[{"id":"c9bcd10cde8654a1"}]},{id:"63c2c0d2fbb5eb2e","type":"function","z":"28b4455c256d9df6","name":"","func":"\nvar stsNow = context.global.sts;\nif (msg.payload == 'ON1') {\nstsNow = true;\n}\nif (msg.payload == 'OFF1') {\nstsNow = false;\n}\ncontext.global.sts = stsNow;\nmsg.payload = stsNow;\n\nreturn msg;","outputs":1,"noerr":0,"initialize":"","finalize":"","libs":[],"x":300,"y":380,"wires":[[{"id":"d94404863d911216","cdbc9f08c57991e"}]},{id:"c7d41e5c427e42a9","type":"debug","z":"28b4455c256d9df6","name":"","active":true,"tosidebar":true,"console":false,"tostatus":false,"complete":"payload","targetType":"msg","statusVal":"","statusType":"auto","x":870,"y":460,"wires":[]},{id:"cdbc9f08c57991e","type":"switch","z":"28b4455c256d9df6","name":"","property":"payload","propertyType":"msg","rules":[{"t":"eq","v":"1","vt":"str"}],"checkall":"true","repair":false,"outputs":1,"x":290,"y":460,"wires":[[{"id":"3ec29b26a4689252"}]},{id:"3c9a2142631bb5be","type":"mqtt_in","z":"28b4455c256d9df6","name":"","topic":"MyKai","qos":2,"datatype":"auto","broker":"2bdba72af576c1b0","nl":false,"rap":true,"rh":0,"inputs":0,"x":90,"y":340,"wires":[[{"id":"490887627b3de72b","63c2c0d2fbb5eb2e"}]},{id:"c9bcd10cde8654a1","type":"mqtt_out","z":"28b4455c256d9df6","name":"","topic":"MyKai","qos":"","retain":"","respTopic":"","contentType":"","userProps":"","correl":"","expiry":"","broker":"2bdba72af576c1b0","x":570,"y":580,"wires":[]},{id:"3ec29b26a4689252","type":"line_notify","z":"28b4455c256d9df6","name":"MyKai","message":"Sensor Active!!!","contentType":"message","imageThumbnail":"","imageUrl":"","sticker":"default","stickerPackageId":"1","stickerId":"1","silent":false,"creds":"19c3f80df468425c","x":470,"y":460,"wires":[[{"id":"a555034685c67b0d"}]},{id:"a555034685c67b0d","type":"http_request","z":"28b4455c256d9df6","name":"","method":"POST","ret":"txt","paytoqs":"ignore","url":"https://notifyapi.line.me/api/notify","tls":"","persist":false,"proxy":"","authType":"","senderr":false,"credentials":{"x":670,"y":460,"wires":[[{"id":"c7d41e5c427e42a9"}]},{id:"29de1dd2.698e12","type":"ui_group","name":"1","tab":"67e2957.e504f6c","order":1,"disp":false,"width":5,"collapse":false},{id:"67163726.764658","type":"ui_group","name":"2","tab":"67e2957.e504f6c","order":2,"disp":false,"width":5,"collapse":false},{id:"70b4a6cc.14fd78","type":"ui_group","name":"3","tab":"67e2957.e504f6c","order":3,"disp":false,"width":12,"collapse":false},{id:"2bdba72af576c1b0","type":"mqtt_broker","name":"PrivateServer","broker":"192.168.100.176","port":1883,"clientId":"","autoConnect":true,"usetls":false,"protocolVersion":4,"keepalive":60,"cleansession":true,"birthTopic":"","birthQos":0,"birthPayload":"","birthMsg":{"closeTopic":"","closeQos":0,"closePayload":"","closeMsg":{"willTopic":"","willQos":0,"willPayload":"","willMsg":{"sessionExpiry":""}}},{id:"19c3f80df468425c","type":"linetoken","name":"MyKaiNotify"},"id":"67e2957.e504f6c","type":"ui_tab","name":"Home","icon":"dashboard","disabled":false,"hidden":false}]

```




รูปการทดสอบ 2:

debug

selected nodes | all

```

MyKai : msg.payload : string[92]
"RequestError: getaddrinfo ENOTFOUND notifyapi.line.me :
https://notifyapi.line.me/api/notify"

23/5/2565 23:21:56 node: a555034685c67b0d
msg : error
"RequestError: getaddrinfo ENOTFOUND notifyapi.line.me"

23/5/2565 23:21:57 node: c7d41e5c427e42a9
MyKai : msg.payload : string[92]
"RequestError: getaddrinfo ENOTFOUND notifyapi.line.me :
https://notifyapi.line.me/api/notify"

23/5/2565 23:22:00 node: a555034685c67b0d
msg : error
"RequestError: getaddrinfo ENOTFOUND notifyapi.line.me"

23/5/2565 23:22:00 node: c7d41e5c427e42a9
MyKai : msg.payload : string[92]
"RequestError: getaddrinfo ENOTFOUND notifyapi.line.me :
https://notifyapi.line.me/api/notify"

23/5/2565 23:22:05 node: a555034685c67b0d
msg : error
"RequestError: getaddrinfo ENOTFOUND notifyapi.line.me"

23/5/2565 23:22:05 node: c7d41e5c427e42a9
MyKai : msg.payload : string[92]
"RequestError: getaddrinfo ENOTFOUND notifyapi.line.me :
https://notifyapi.line.me/api/notify"
  
```

รูปการทดสอบ 3

Edit line-notify node

Delete Cancel Done

Properties

Name MyKai

Token MyKaiNotify

ContentType Only Message

Message

1 Sensor Active!!!

รูปการทดสอบ 4

Edit http request node

Delete Cancel Done

Properties

Method POST

URL <https://notifyapi.line.me/api/notify>

☐ Enable secure (SSL/TLS) connection

☐ Use authentication

☐ Enable connection keep-alive

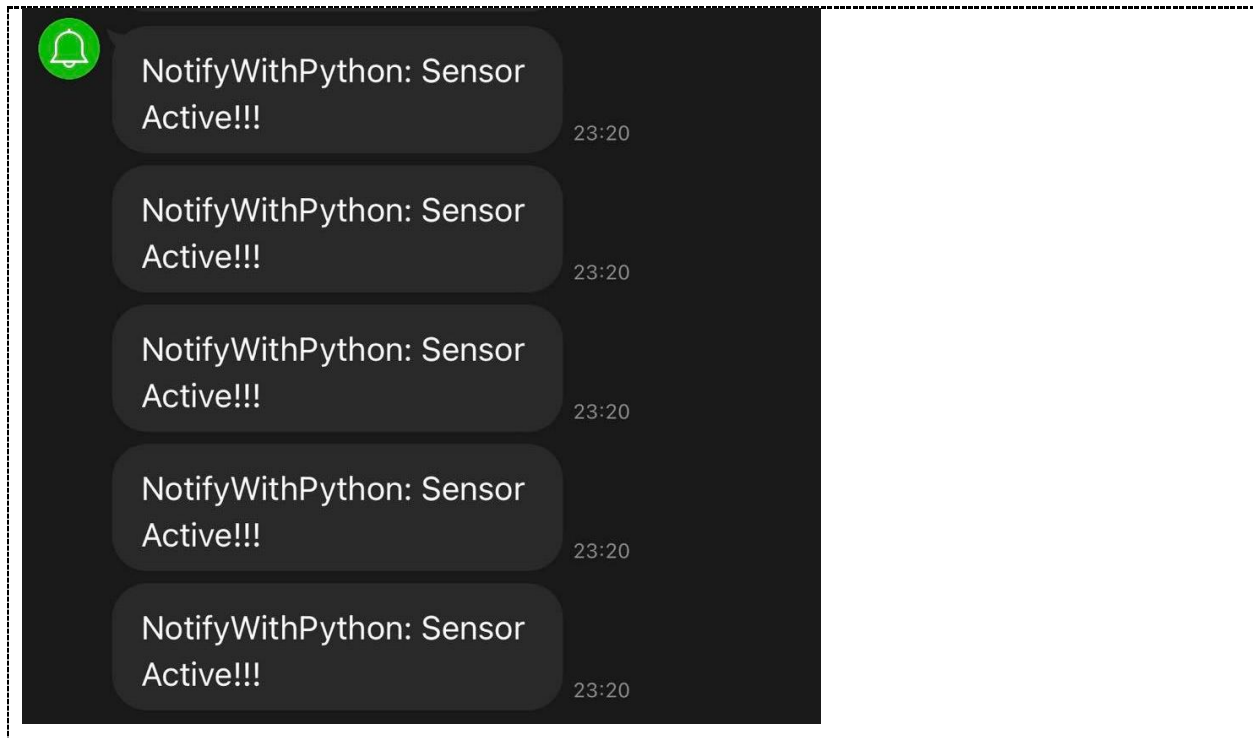
☐ Use proxy

☐ Only send non-2xx responses to Catch node

Return a UTF-8 string

Name Name

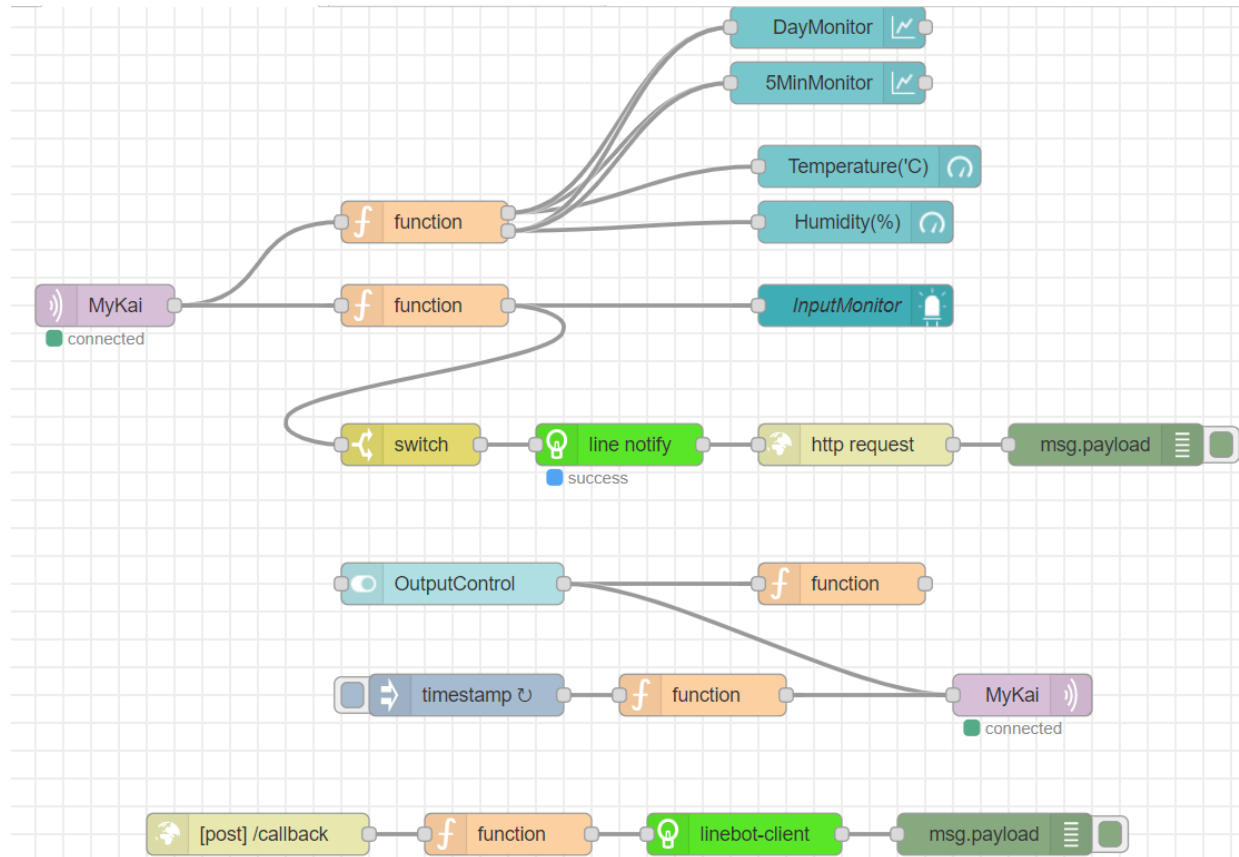
รูปการทดสอบ 5



Quiz_403 – LINE Chatbot

- แสดงรูป โปรแกรม ของผลการทำงานตามหัวข้อ การโต้ตอบด้วยข้อความสำหรับฟาร์มอัจฉริยะ

Capture Node-RED Flow



Node-RED Code

```
[{"id":"1559876bf788202f","type":"tab","label":"Flow1","disabled":false,"info":""},{
  "id":"846fad9422083ba2","type":"mqtt
  in","z":"1559876bf788202f","name":"","topic":"MyKai","qos":2,"datatype":"auto","broker":"2bdb
  a72af576c1b0","nl":false,"rap":true,"rh":0,"inputs":0,"x":70,"y":380,"wires":[["e7210dcc90c8dd93",
  "48e4213923df276a"]],{"id":"e7210dcc90c8dd93","type":"function","z":"1559876bf788202f","nam
  e":"","func":"// Tempp=38.20,Humid=73.52 \n\nvar msg1 = {};\nvar msg2 = {};\n\nvar output =
  msg.payload.split("\\","\\");\n\nvar sTempp = output[0].split("\\=");\\nmsg1.payload =
  sTempp[1];\\nmsg1.topic = 'Temperature';\\n\\nvar sHumid =output[1].split("\\=");\\nmsg2.payload =
  sHumid[1];\\nmsg2.topic = 'Humidity';\\n\\ncontext.global.tempp = sTempp[1];\\ncontext.global.humid
  = sHumid[1];\\n\\nreturn
  [msg1,msg2];","outputs":2,"noerr":0,"initialize":"","finalize":"","libs":[],"x":300,"y":320,"wires":[["
  cb9c1affa16e6bc3","3526133246616b7c","6a49e15835de2acc"],["970623ef58bd2847","6a49e15835d
  e2acc","3526133246616b7c"]],{"id":"cb9c1affa16e6bc3","type":"ui_gauge","z":"1559876bf788202f
  ","name":"","group":"29de1dd2.698e12","order":2,"width":5,"height":4,"gtype":"gage","title":
  "Temperature(°C)","label":"°C","format":{"value}}","min":0,"max":100,"colors":["#00b500","#e6e
  600","#ca3838"],"seg1":"","seg2":"","x":620,"y":280,"wires":[],{"id":"3526133246616b7c","type":
  "ui_chart","z":"1559876bf788202f","name":"","group":"67163726.764658","order":1,"width":5,"h
```

```

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value;\nreturn
msg;\n","outputs":1,"noerr":0,"initialize":"","finalize":"","libs":[],"x":360,"y":760,"wires":[["47278b81c7aff8c6"]]],{"id":"4d8c3377564f5fe8","type":"debug","z":"1559876bf788202f","name":"","active":true,"tosidebar":true,"console":false,"tostatus":false,"complete":"payload","targetType":"msg","statusVal":"","statusType":"auto","x":710,"y":760,"wires":[]},{id:"d8cc6b495844e3e8","type":"function","z":"1559876bf788202f","name":"","func":"context.global.ctrl = msg.payload\nreturn msg;","outputs":1,"noerr":0,"initialize":"","finalize":"","libs":[],"x":600,"y":580,"wires":[]},{id:"24ce8283b64417d8","type":"inject","z":"1559876bf788202f","name":"","props":[{"p":"payload"}],"p":"topic","vt":"str"},"repeat":"10","crontab":"","once":false,"onceDelay":0.1,"topic":"","payload":"","payloadType":"date","x":330,"y":660,"wires":[["8f83d9bf51612678"]]],{"id":"8f83d9bf51612678","type":"function","z":"1559876bf788202f","name":"","func":"msg.payload = context.global.ctrl\nreturn msg;","outputs":1,"noerr":0,"initialize":"","finalize":"","libs":[],"x":500,"y":660,"wires":[["cfbadb9daf6fa059"]]],{"id":"0b516001b311ea3b","type":"line-notify","z":"1559876bf788202f","name":"","message":"Sensor Active!!!","contentType":"message","imageThumbnail":"","imageUrl":"","sticker":"default","stickerPackageId":"1","stickerId":"1","silent":false,"creds":"19c3f80df468425c","x":440,"y":480,"wires":[["95a1ee69ecd9c98"]]],{"id":"47278b81c7aff8c6","type":"linebot-client","z":"1559876bf788202f","name":"","channelAccessToken":"xGa/tHcfWyUboUeiYWOocscdyfo00pG9tPVgvp0bXjd8hyhQOHAfthKGCp9k34W3weU5J5++Cwism7dM8NLSytTCKoYatXfVVVTFqxcR8A0vzGGCZmMbP1G2hvjIfB9NC6u7Xwb1fuKtQXAwNvIALwdB04t89/10/w1cDnyilFU=","channelSecret":"c652bbe1a1665b69a914be596e98e1f4","x":530,"y":760,"wires":[["4d8c3377564f5fe8"]]],{"id":"2bdba72af576c1b0","type":"mqtt-broker","name":"PrivateServer","broker":"192.168.100.176","port":"1883","clientId":"","autoConnect":true,"usetls":false,"protocolVersion":"4","keepalive":"60","cleansession":true,"birthTopic":"","birthQos":"0","birthPayload":"","birthMsg":{},"closeTopic":"","closeQos":"0","closePayload":"","closeMsg":{},"willTopic":"","willQos":"0","willPayload":"","willMsg":{},"sessionExpiry":"","id":"29de1dd2.698e12","type":"ui_group","name":"1","tab":"67e2957.e504f6c","order":1,"disp":false,"width":"5","collapse":false},{id":"67163726.764658","type":"ui_group","name":"2","tab":"67e2957.e504f6c","order":2,"disp":false,"width":"5","collapse":false},{id":"70b4a6cc.14fd78","type":"ui_group","name":"3","tab":"67e2957.e504f6c","order":3,"disp":false,"width":"12","collapse":false},{id":"19c3f80df468425c","type":"linetoken","name":"MyKaiNotify"},"id":"67e2957.e504f6c","type":"ui_tab","name":"Home","icon":"dashboard","disabled":false,"hidden":false}]

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รูปการทดสอบ 1



รูปการทดสอบ 2:

Webhook settings

Webhook URL ?<https://63ec-223-205-250-198.ngrok.io/callback>

Verify

Edit

Use webhook ?

รูปการทดสอบ 3

TOP > Embedded Systems > Embedded Systems > Basic settings

Permissions ?

PROFILE

Channel secret ?

รูปการทดสอบ 4

TOP > Embedded Systems > Embedded Systems > Messaging API

Allow bot to join group chats ? Disabled

Edit

Auto-reply messages ? Disabled

Edit

Greeting messages ? Disabled

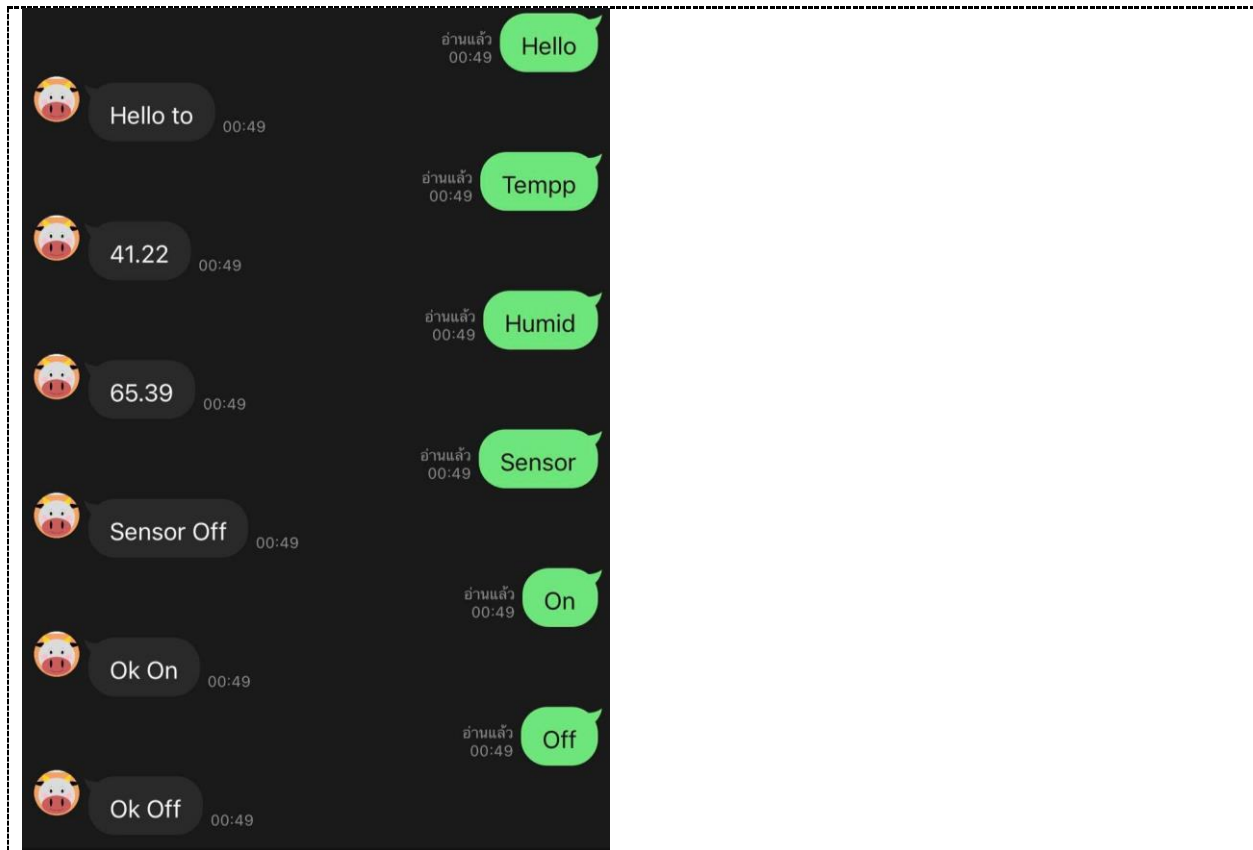
Edit

Channel access token

Channel access token (long-lived) ?

Reissue

รูปการทดสอบ 5



รูปการทดสอบ 6

