SPRINT – 4

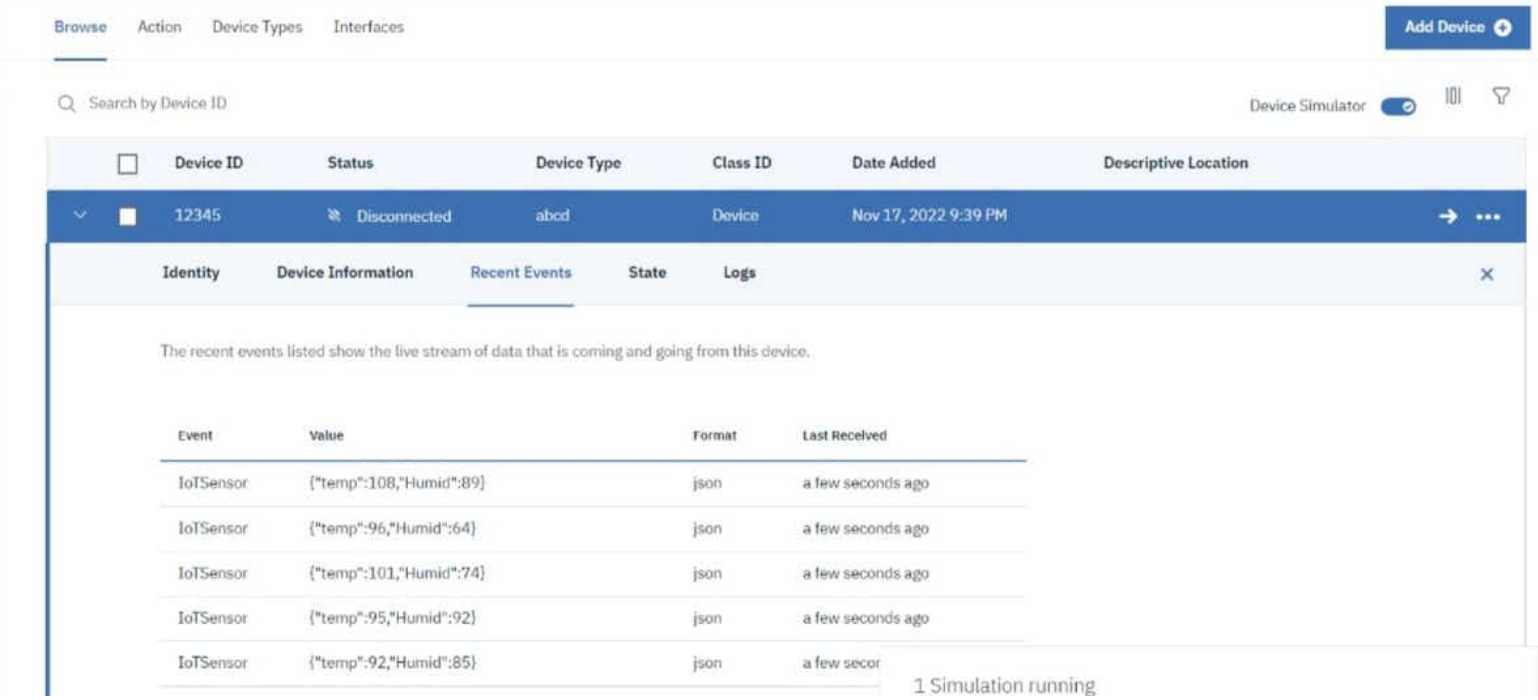
Team ID	PNT2022TMID53587
Project Name	Industry-Specific Intelligent Fire Management System

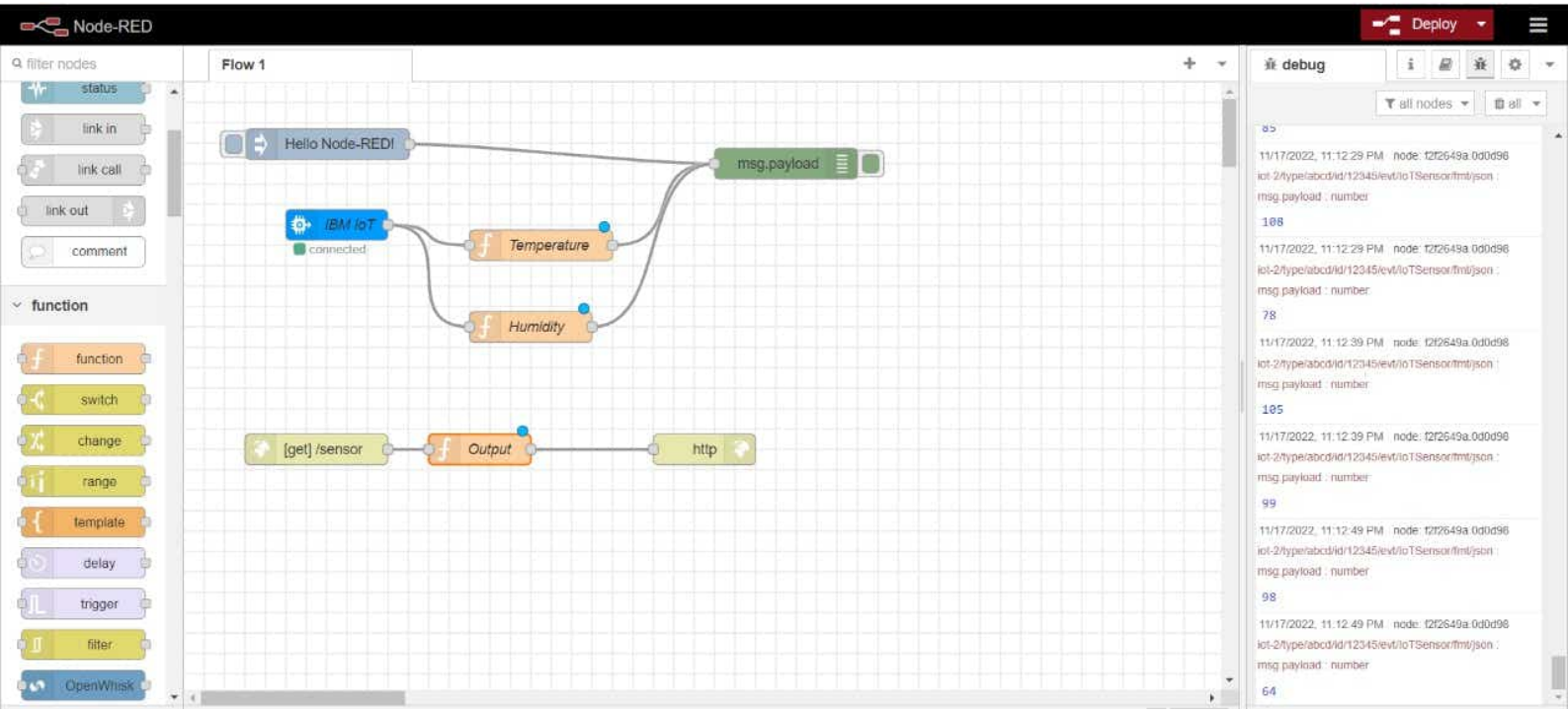
ibmiotpublishsubscribe.py - C:\Users\shrut\Downloads\ibmiotpublishsubscribe.py (3.7.0)

File Edit Format Run Options Window Help

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random

#Provide your IBM Watson Device Credentials
organization = "c0o308"
deviceType = "abcd"
deviceId = "12345"
authMethod = "token"
authToken = "12345678"

# Initialize GPIO
def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="lighton":
        print ("led is on")
    elif status == "lightoff":
        print ("led is off")
    else :
        print ("please send proper command")

try:
        deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method": authMethod, "auth-token": authToken}
        deviceCli = ibmiotf.device.Client(deviceOptions)
        #.....................................................

except Exception as e:
        print("Caught exception connecting device: %s" % str(e))
        sys.exit()

# Connect and send a datapoint "hello" with value "world" into the cloud as an event of type "greeting" 10 times
deviceCli.connect()

while True:
        #Get Sensor Data from DHT11

        temp=random.randint(90,110)
        Humid=random.randint(60,100)

        data = { 'temp' : temp, 'Humid': Humid }
        #print data
        def myOnPublishCallback():
            print ("Published Temperature = %s C" % temp, "Humidity = %s %%" % Humid, "to IBM Watson")
```

```
Published Temperature = 109 C Humidity = 70 % to IBM Watson
Published Temperature = 98 C Humidity = 75 % to IBM Watson
Published Temperature = 99 C Humidity = 76 % to IBM Watson
Published Temperature = 92 C Humidity = 90 % to IBM Watson
Published Temperature = 104 C Humidity = 89 % to IBM Watson
Published Temperature = 97 C Humidity = 72 % to IBM Watson
Published Temperature = 102 C Humidity = 60 % to IBM Watson
Published Temperature = 110 C Humidity = 72 % to IBM Watson
Published Temperature = 109 C Humidity = 100 % to IBM Watson
Published Temperature = 101 C Humidity = 66 % to IBM Watson
Published Temperature = 99 C Humidity = 90 % to IBM Watson
Published Temperature = 95 C Humidity = 66 % to IBM Watson
Published Temperature = 107 C Humidity = 89 % to IBM Watson
Published Temperature = 93 C Humidity = 74 % to IBM Watson
Published Temperature = 96 C Humidity = 67 % to IBM Watson
Published Temperature = 102 C Humidity = 67 % to IBM Watson
Published Temperature = 90 C Humidity = 85 % to IBM Watson
Published Temperature = 96 C Humidity = 100 % to IBM Watson
Published Temperature = 103 C Humidity = 89 % to IBM Watson
Published Temperature = 90 C Humidity = 86 % to IBM Watson
Published Temperature = 104 C Humidity = 92 % to IBM Watson
Published Temperature = 99 C Humidity = 85 % to IBM Watson
Published Temperature = 108 C Humidity = 78 % to IBM Watson
Published Temperature = 105 C Humidity = 99 % to IBM Watson
Published Temperature = 98 C Humidity = 64 % to IBM Watson
Published Temperature = 92 C Humidity = 81 % to IBM Watson
Published Temperature = 103 C Humidity = 90 % to IBM Watson
Published Temperature = 100 C Humidity = 73 % to IBM Watson
Published Temperature = 92 C Humidity = 75 % to IBM Watson
Published Temperature = 109 C Humidity = 63 % to IBM Watson
Published Temperature = 109 C Humidity = 80 % to IBM Watson
Published Temperature = 106 C Humidity = 94 % to IBM Watson
Published Temperature = 98 C Humidity = 73 % to IBM Watson
Published Temperature = 106 C Humidity = 91 % to IBM Watson
Published Temperature = 109 C Humidity = 77 % to IBM Watson
Published Temperature = 110 C Humidity = 60 % to IBM Watson
Published Temperature = 91 C Humidity = 69 % to IBM Watson
Published Temperature = 108 C Humidity = 74 % to IBM Watson
Published Temperature = 92 C Humidity = 75 % to IBM Watson
```

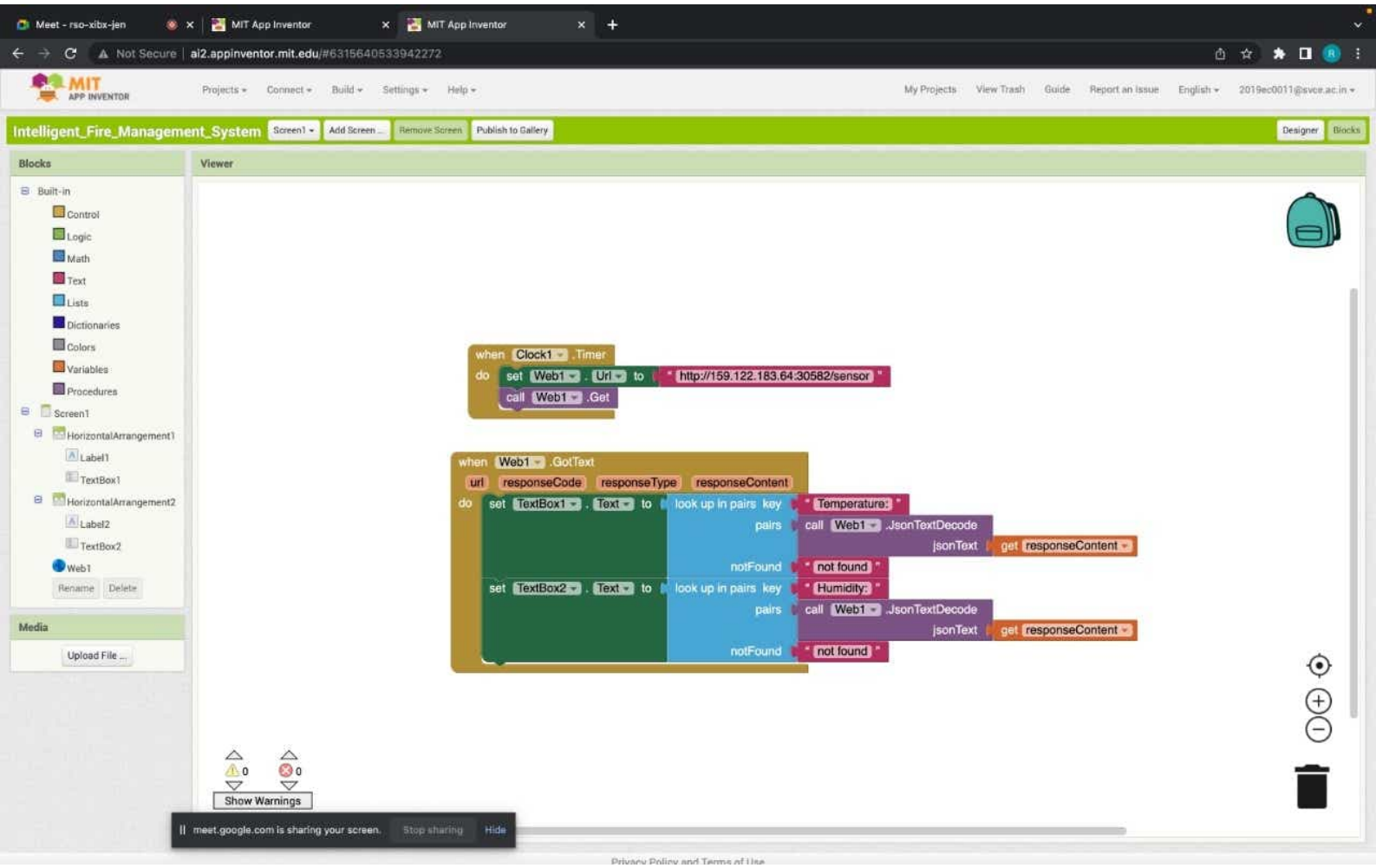

Browse
Action
Device Types
Interfaces
Add Device
Search by Device ID
Device Simulator
Device ID
Status
Device Type
Class ID
Date Added
Descriptive Location
12345
Disconnected
abcd
Device
Nov 17, 2022 9:39 PM
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
IoTSensor
{"temp":108,"Humid":89}
json
a few seconds ago
IoTSensor
{"temp":96,"Humid":64}
json
a few seconds ago
IoTSensor
{"temp":101,"Humid":74}
json
a few seconds ago
IoTSensor
{"temp":95,"Humid":92}
json
a few seconds ago
IoTSensor
{"temp":92,"Humid":85}
json
a few secor
1 Simulation running

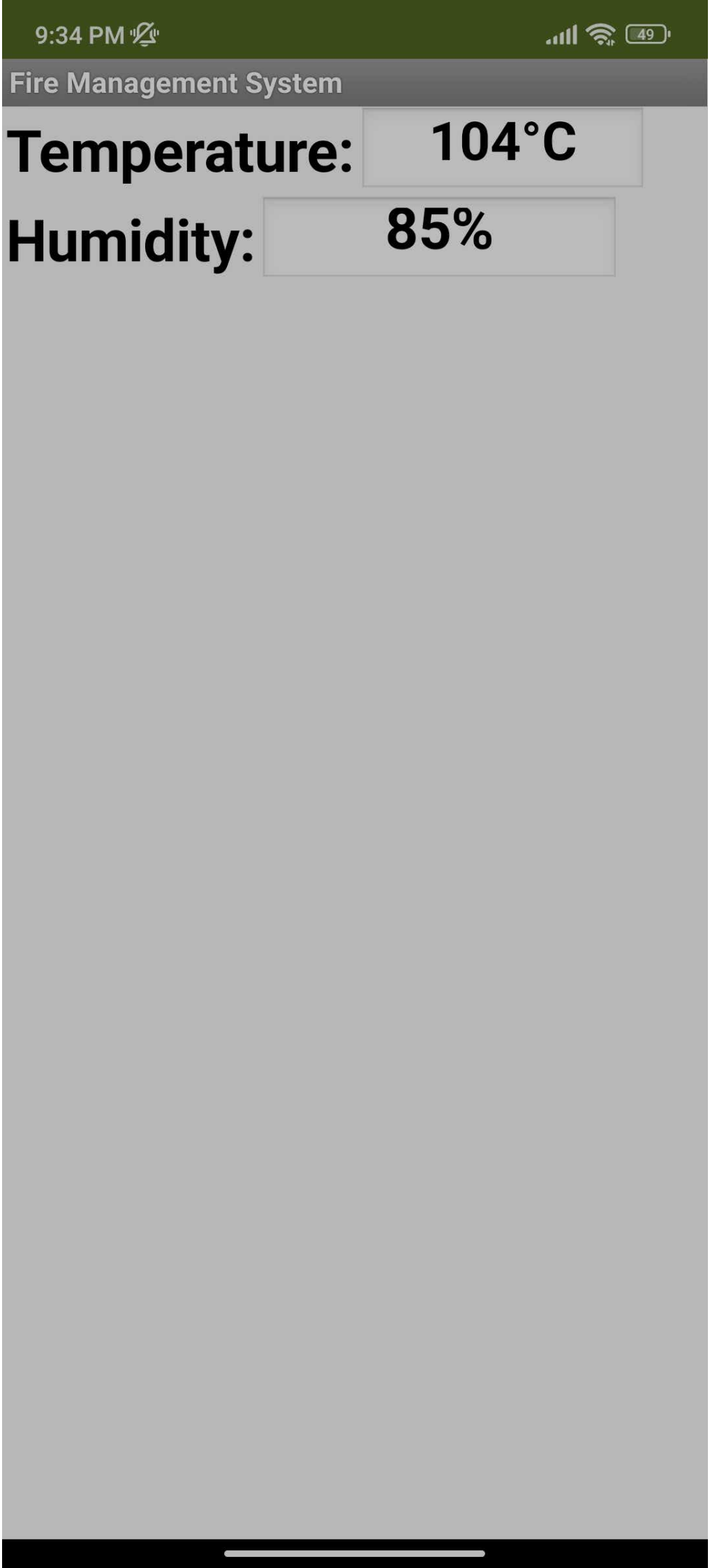

Node-RED
Deploy
filter nodes
Flow 1
debug
all nodes
all
status
link in
link call
link out
comment
function
function
switch
change
range
template
delay
trigger
filter
OpenWhisk
Hello Node-RED!
msg.payload
IBM IoT
connected
Temperature
Humidity
[get] /sensor
Output
http
11/17/2022, 11:12:29 PM node: f2f2649a.0d0d98
iot-2/type/abcd/id/12345/evt/IoTSensor/fmt/json : msg.payload : number
108
11/17/2022, 11:12:29 PM node: f2f2649a.0d0d98
iot-2/type/abcd/id/12345/evt/IoTSensor/fmt/json : msg.payload : number
78
11/17/2022, 11:12:39 PM node: f2f2649a.0d0d98
iot-2/type/abcd/id/12345/evt/IoTSensor/fmt/json : msg.payload : number
105
11/17/2022, 11:12:39 PM node: f2f2649a.0d0d98
iot-2/type/abcd/id/12345/evt/IoTSensor/fmt/json : msg.payload : number
99
11/17/2022, 11:12:49 PM node: f2f2649a.0d0d98
iot-2/type/abcd/id/12345/evt/IoTSensor/fmt/json : msg.payload : number
98
11/17/2022, 11:12:49 PM node: f2f2649a.0d0d98
iot-2/type/abcd/id/12345/evt/IoTSensor/fmt/json : msg.payload : number
64

{"temp":92,"Humid":75}

Home


IOT Fire Alarm
Humidity
50
37.5
25
12.5
0
16:59:01
16:59:05
16:59:10
gauge
70
slider
Temperature
50
37.5


Meet - rso-xibx-jen
MIT App Inventor
MIT App Inventor
Not Secure | ai2.appinventor.mit.edu/#6315640533942272
MIT APP INVENTOR
Projects
Connect
Build
Settings
Help
My Projects
View Trash
Guide
Report an Issue
English
2019ec0011@svce.ac.in
Intelligent_Fire_Management_System
Screen1
Add Screen ...
Remove Screen
Publish to Gallery
Designer
Blocks
Blocks
Built-in
Control
Logic
Math
Text
Lists
Dictionaries
Colors
Variables
Procedures
Screen1
HorizontalArrangement1
Label1
TextBox1
HorizontalArrangement2
Label2
TextBox2
Web1
Rename
Delete
Media
Upload File ...
Viewer
when Clock1 .Timer
do set Web1 . Url to " http://159.122.183.64:30582/sensor "
call Web1 .Get
when Web1 .GotText
url responseCode responseType responseContent
do set TextBox1 . Text to look up in pairs key " Temperature: "
pairs call Web1 .JsonTextDecode
jsonText get responseContent
notFound " not found "
set TextBox2 . Text to look up in pairs key " Humidity: "
pairs call Web1 .JsonTextDecode
jsonText get responseContent
notFound " not found "
0
0
Show Warnings
meet.google.com is sharing your screen.
Stop sharing
Hide
Privacy Policy and Terms of Use


9:34 PM
Fire Management System
Temperature:
104°C
Humidity:
85%