

SPRINT-1

Date	14 November 2022
Team ID	PNT2022TMID48307
Project Name	Industry-specific intelligent fire management system

```
import json
import wiotp.sdk.device
import time
import random
import ibmiotf.application
import ibmiotf.device

myConfig = {
    "identity": {
        "orgId": "qunfyw",
        "typeId": "Node",
        "deviceId": "1234"
    },
    "auth": {
        "token": "012345678"
    }
}

def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="fanon":
        print ("fan is on")
    elif status == "fanoff":
        print ("fan is off")
    else :
        print ("please send proper command")

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    myData={'temperature':temp, 'humidity':hum}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Published data Successfully: ", myData)
    time.sleep(20)

    client.commandCallback = myCommandCallback

client.disconnect()
```

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IBM Service Details - IBM Cloud Node-RED : node-red-iklun-202... https://node-red-iklun-2022-11- MIT App Inventor MIT App Inventor (19) WhatsApp

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SENSORApp

Screen1 Add Screen... Remove Screen Publish to Gallery Designer Blocks

Palette

Search Components...

User Interface

- Button
- CheckBox
- DatePicker
- Image
- Label
- ListPicker
- ListView
- Notifier
- PasswordTextBox
- Slider
- Spinner
- Switch
- TextBox
- TimePicker
- WebView

Layout

Media

Drawing and Animation

Maps

Charts

Viewer

☐ Display hidden components in Viewer

Phone size (505,320)

Non-visible components

- Clock1
- Web1
- Web2

Components

- Screen1
 - VerticalArrangement1
 - HorizontalArrangement1
 - Label1
 - HorizontalArrangement1
 - Image1
 - HorizontalArrangement1
 - Label7
 - HorizontalArrangement1
 - Label3
 - HorizontalArrangement1
 - Label4
 - HorizontalArrangement1
 - Label5
 - HorizontalArrangement1
 - Label8
 - HorizontalArrangement1
 - Label9
 - HorizontalArrangement1

Rename Delete

Media

- fireimage.jpg
- fires.png
- Upload File...

Properties

Label9

BackgroundColor

☐ None

FontBold

☒

FontItalic

☐

FontSize

25

FontTypeface

default

HTMLFormat

☐

HasMargins

☒

Height

Automatic

Width

Fill parent

Text

NA

TextAlignment

left 0

TextColor

Default

Visible

☒

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SENSORRapp

Screen1 Add Screen Remove Screen Publish to Gallery Designer Blocks

Blocks

- Built-in
 - Control
 - Logic
 - Math
 - Text
 - Lists
 - Dictionaries
 - Colors
 - Variables
 - Procedures
- Screen1
 - VerticalArrangement1
 - HorizontalArrangement1
 - Label1
 - HorizontalArrangement2
 - Image1

Media

- freimage.jpg
- fires.png
- Upload File ...

Show Warnings

Viewer

```
when Clock1 timer
do
  set Web1 Url to https://node-red-ikluy-2022-11-13.au-syd.mybluem...
  call Web1 Get

when Web1 GotText
do
  set Label3 Text to look up in pairs key temperature
  pairs
    call Web1 JsonTextDecode jsonText get responseContent
    notFound not found
  set Label5 Text to look up in pairs key flame
  pairs
    call Web1 JsonTextDecode jsonText get responseContent
    notFound not found
  set Label9 Text to look up in pairs key gas
  pairs
    call Web1 JsonTextDecode jsonText get responseContent
    notFound not found
  call Web2 Get

when Button2 Click
do
  set Web2 Url to https://node-red-ikluy-2022-11-13.au-syd.mybluem...
  call Web2 Get
```

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Price hike con X (26) WhatsApp X Node-RED D X Meet-y X IBM X Resource list X Node-RED D X Node-RED D X IBM Watson X https://node- X MIT App Inve X https://node- X

https://web.whatsapp.com

IoT Based Safety Gadgetto...

```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
fan is on
Command received: fanon
fan is on
Command received: fanoff
fan is off
Command received: fanon
fan is on
Command received: fanon
fan is on
Command received: fanon
fan is on
Command received: fanoff
fan is off
Command received: fanoff
fan is off
Published data Successfully: ('temperature': 124, 'humidity': 3)
Command received: fanoff
fan is off
Command received: fanoff
fan is off
Published data Successfully: ('temperature': 18, 'humidity': 83)
Command received: fanon
fan is on
Command received: fanon
fan is on
Command received: fanon
fan is on
Command received: fanon
fan is on
Published data Successfully: ('temperature': 67, 'humidity': 85)
Published data Successfully: ('temperature': 36, 'humidity': 9)
Command received: fanon
fan is on
Command received: fanoff
fan is off
Command received: fanoff
fan is off
Command received: fanoff
fan is off
Command received: fanoff
```

```
boomikapythoncode.py - C:\Users\Aleasdeen KM\Downloads\boomikapythoncode.py (3.7.4)
File Edit Format Run Options Window Help
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import wiotp.sdk.device
import time
import random
import ibmiotf.application
import ibmiotf.device

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```

(application for your project using mit app, design the model and test the app)

SENSORappapk

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