

# PROJECT DEVELOPMENT PHASE

## SPRINT - 1

Team ID	PNT2022TMID11542
Project Name	Industrial Specific Fire Management System
Date	29 OCT 2022

Getting sensor values:

```
Project1.py - C:/Users/ELCOT/Desktop/Project1.py (3.7.4)
File Edit Format Run Options Window Help
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "ci5v5e",
        "typeId": "Rasberypi",
        "deviceId": "1234"
    },
    "auth": {
        "token": "12345678"
    }
}
def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
    temp=random.randint(-5,100)
```

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client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
    temp=random.randint(-5,100)
    hum=random.randint(0,100)
    flame=random.randint(0,50)
    gas=random.randint(0,100)
    myData={'temperature':temp, 'humidity':hum, 'flame':flame, 'gas':gas}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPu
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(10)
client.disconnect()
```

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```
*Python 3.7.4 Shell*
File Edit Shell Debug Options Window Help

Published data Successfully: %s {'temperature': 50, 'flame': 20, 'gas': 33}
Published data Successfully: %s {'temperature': 59, 'flame': 42, 'gas': 62}
Published data Successfully: %s {'temperature': 81, 'flame': 15, 'gas': 65}
Published data Successfully: %s {'temperature': 97, 'flame': 28, 'gas': 15}
Published data Successfully: %s {'temperature': 8, 'flame': 50, 'gas': 83}
Published data Successfully: %s {'temperature': 58, 'flame': 14, 'gas': 81}
Published data Successfully: %s {'temperature': 38, 'flame': 26, 'gas': 100}
Published data Successfully: %s {'temperature': 35, 'flame': 21, 'gas': 0}
Published data Successfully: %s {'temperature': 96, 'flame': 9, 'gas': 19}
Published data Successfully: %s {'temperature': 35, 'flame': 47, 'gas': 34}
Published data Successfully: %s {'temperature': 73, 'flame': 4, 'gas': 45}
Published data Successfully: %s {'temperature': 90, 'flame': 7, 'gas': 7}
Published data Successfully: %s {'temperature': 39, 'flame': 8, 'gas': 0}
Published data Successfully: %s {'temperature': 84, 'flame': 21, 'gas': 9}
Published data Successfully: %s {'temperature': 98, 'flame': 27, 'gas': 40}
Published data Successfully: %s {'temperature': 90, 'flame': 27, 'gas': 46}
Published data Successfully: %s {'temperature': 24, 'flame': 4, 'gas': 14}
Published data Successfully: %s {'temperature': 1, 'flame': 18, 'gas': 33}
Published data Successfully: %s {'temperature': 73, 'flame': 5, 'gas': 13}
Published data Successfully: %s {'temperature': 88, 'flame': 12, 'gas': 92}
Published data Successfully: %s {'temperature': 91, 'flame': 9, 'gas': 20}
```

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Code:

```
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logHandlers=None)
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```
client.connect()
while True:
    temp=random.randint(-5,100)
    #hum=random.randint(0,100)
    flame=random.randint(0,50)
    gas=random.randint(0,100)
    myData={'temperature':temp,'flame':flame,'gas':gas}
    client.publishEvent(eventId="status", msgFormat="json",
data=myData, qos=0, onPublish=None)
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(4)
client.disconnect()
```