

# PROJECT DEVELOPMENT PHASE

## SPRINT-1

**Team ID** PNT2022TMID27352

**Project Name** Industrial Specific Fire Management System

### **PYTHON CODE:**

```
import time

import sys

import ibmiotf.application
import ibmiotf.device

import random

#Provide your IBM Watson Device Credentials

organization = "ms2lj6"

deviceType = "hardware"

deviceId = "abcd"

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 : %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")

success = deviceCli.publishEvent("IoTSensor", "json", data,

```

```
qos=0, on_publish=myOnPublishCallback)
```

```
if not success:
```

```
print("Not connected to IoT")
```

```
time.sleep(10)
```

```
deviceCli.commandCallback = myCommandCallback
```

```
# Disconnect the device and application from the cloud
```

```
deviceCli.disconnect()
```

## OUTPUT:



```
Python 3.7.0 Shell - C:/Users/ELCOT/Desktop/nalaya thiran/python codee.py (3.7.0)*
File Edit Shell Debug Options Window Help
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/ELCOT/Desktop/nalaya thiran/python.py =====
Traceback (most recent call last):
  File "C:/Users/ELCOT/Desktop/nalaya thiran/python.py", line 3, in <module>
    import ibmiotf.application
ModuleNotFoundError: No module named 'ibmiotf'
>>>
===== RESTART: C:/Users/ELCOT/Desktop/nalaya thiran/python.py =====
Traceback (most recent call last):
  File "C:/Users/ELCOT/Desktop/nalaya thiran/python.py", line 3, in <module>
    import ibmiotf.application
ModuleNotFoundError: No module named 'ibmiotf'
>>>
===== RESTART: C:/Users/ELCOT/Desktop/nalaya thiran/python.py =====
Traceback (most recent call last):
  File "C:/Users/ELCOT/Desktop/nalaya thiran/python.py", line 3, in <module>
    import ibmiotf.application
ModuleNotFoundError: No module named 'ibmiotf'
>>>
===== RESTART: C:/Users/ELCOT/Desktop/nalaya thiran/python.py =====
Traceback (most recent call last):
  File "C:/Users/ELCOT/Desktop/nalaya thiran/python.py", line 3, in <module>
    import ibmiotf.application
ModuleNotFoundError: No module named 'ibmiotf'
>>>
===== RESTART: C:/Users/ELCOT/Desktop/nalaya thiran/python.py =====
2022-11-16 12:52:59,388 ibmiotf.device.Client INFO Connected successfuly: d:ms21j6:hardware:abcd
Published Temperature = 93 C Humidity = 74 % to IBM Watson
Published Temperature = 94 C Humidity = 93 % to IBM Watson
Published Temperature = 100 C Humidity = 83 % to IBM Watson
Published Temperature = 92 C Humidity = 97 % to IBM Watson
Published Temperature = 94 C Humidity = 98 % to IBM Watson
Published Temperature = 97 C Humidity = 92 % to IBM Watson
Published Temperature = 108 C Humidity = 71 % to IBM Watson
Published Temperature = 104 C Humidity = 62 % to IBM Watson
```

IBM Watson IoT Platform

?

kirthikaaiyyappan@gmail.com

ID: ms21j6

Browse

Action

Device Types

Interfaces

Add Device +

Browse Devices

All Devices

Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device Simulator

101

<div></div>	Device ID	Status	Device Type	Class ID	Date Added
>	abcd	<div>Connected</div>	hardware	Device	Nov 16, 2022 10:40 AM
>	raspberrypi	<div>Disconnected</div>	raspberrypi	Device	Nov 16, 2022 10:11 AM

Items per page 50 | 1-2 of 2 items

0 Simulations running