## **Sprint-3**

Team ID: PNT2022TMID06928

**Project Title**: Industry-specific intelligent fire management system

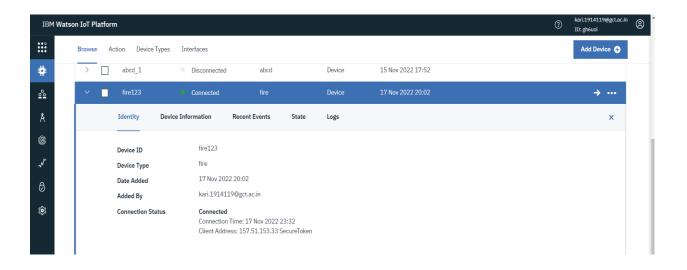
## CREATING A PYTHON SCRIPT AND INTERFACING WITH CLOUD-IOT PLATFORM

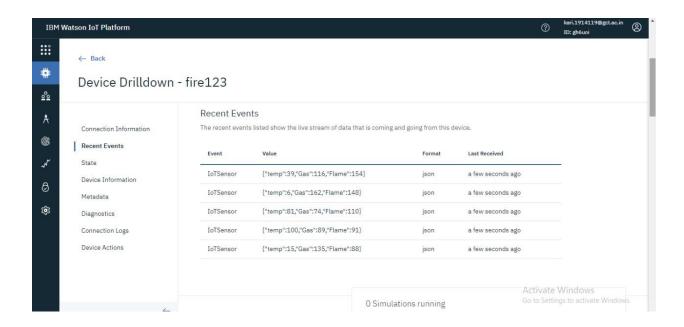
```
| Ref | Series | Procedure | P
```

```
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 ( 0, 100 )
gas = random.randint ( 60, 200 )
flame = random.randint ( 60, 200 )
    data = {'temp' : temp, 'Gas' : gas, 'Flame': flame}
    # print data
     def muOnPublishCallback() :
                                   perature = %s C" % temp, "Gas = %s %%" % gas, "Flame = %s %%" % flame, "to IBM Watson")
     success = deviceCli.publishEvent ( "IoTSensor", "json", data, qos = 0, on_publish = myOnPublishCallback )
    if not success :
         print ( "Not connected to IoTF" )
    time.sleep ( 1 )
    deviceCli.commandCallback = mvCommandCallback
# Disconnect the device and application from the cloud
deviceCli.disconnect ()
                                                                                                                                                                                        Ln: 12 Col: 23
```

| Process | Proc





## **PYTHON CODE:**

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

# Provide your IBM Watson Device Credentials organization = "gh6uoi" deviceType = "fire" deviceId = "fire123"

```
authMethod = "token"
authToken = "0123456789"
# Initialize GPIO
def myCommandCallback(cmd) :
  print ( "Command received: %s" % cmd.data['command'] )
  status = cmd.data['command']
  if status == "lighton" :
    print ( "led is on" )
  else:
    print ( "led is off" )
  # print(cmd)
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 (0, 100)
  gas = random.randint (60, 200)
  flame = random.randint (60, 200)
  data = {'temp' : temp, 'Gas' : gas, 'Flame': flame}
  # print data
  def myOnPublishCallback() :
    print ("Published Temperature = %s C" % temp, "Gas = %s %%" % gas, "Flame = %s %%" % flame,
"to IBM Watson")
  success = deviceCli.publishEvent ("IoTSensor", "json", data, qos = 0, on_publish =
myOnPublishCallback )
  if not success:
```

