

PROJECT DEVELOPMENT PHASE

SPRINT-2 CODING

Date	05 November 2022
Team ID	PNT2022TMID23100
Project Name	IOT based safety gadget for child monitoring and notification

CODING:

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "q6k20x"
deviceType = "rasberrypi"
deviceId = "123"
authMethod = "token"
authToken = "123456789"
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

    name="seetha"
    latitude=9.9179987
    longitude=78.0527826

    data = { 'name' : name, 'latitude': latitude, 'longitude':longitude }
```

```

# print data
def myOnPublishCallback():
    print ("Published name = %s " % name, "latitude = %s " % latitude, "longitude = %s "
% longitude, "to IBM Watson")

    success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
on_publish=myOnPublishCallback)
    if not success:
        print("Not connected to IoTTF")
        time.sleep(5)

    deviceCli.commandCallback = 'myOnPublishCallback'

client.disconnect()

```

OUTPUT:



```

ibmcode3.py - C:\Users\91701\AppData\Local\Programs\Python\Python37\ibmcode3.py (3.7.0)
File Edit Format Run Options Window Help

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client.disconnect()

```

```
Python 3.7.0 Shell*
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\91701\AppData\Local\Programs\Python\Python37\ibmcode3.py =
2022-11-15 09:57:46,019 ibmiotf.device.Client INFO Connected successfully: d:q6k20x:rasberry:123
Published name = seetha latitude = 9.9179987 longitude = 78.0527826 to IBM Watson
Published name = seetha latitude = 9.9179987 longitude = 78.0527826 to IBM Watson
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```

IBM Watson IoT Platform

Welcome to Project! Delighted to... VELAMMAL COLLEGE OF ENGINE... +

q6k20x.internetofthings.ibmcloud.com/dashboard/devices/browse

IBM Watson IoT Platform

aiswaryamc10@gmail.com
ID: q6k20x

Browse

Action

Device Types

Interfaces

Add Device

123

Connected

rasberry

Device

Nov 10, 2022 7:37 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	{"name":"seetha","latitude":9.9179987,"longitud...	json	a few seconds ago
IoTSensor	{"name":"seetha","latitude":9.9179987,"longitud...	json	a few seconds ago
IoTSensor	{"name":"seetha","latitude":9.9179987,"longitud...	json	a few seconds ago
IoTSensor	{"name":"seetha","latitude":9.9179987,"longitud...	json	a few seconds ago
IoTSensor	{"name":"seetha","latitude":9.9179987,"longitud...	json	a few seconds ago

>

12345

Disconnected

ultrasonic

Device

Oct 31, 2022 12:40 AM