

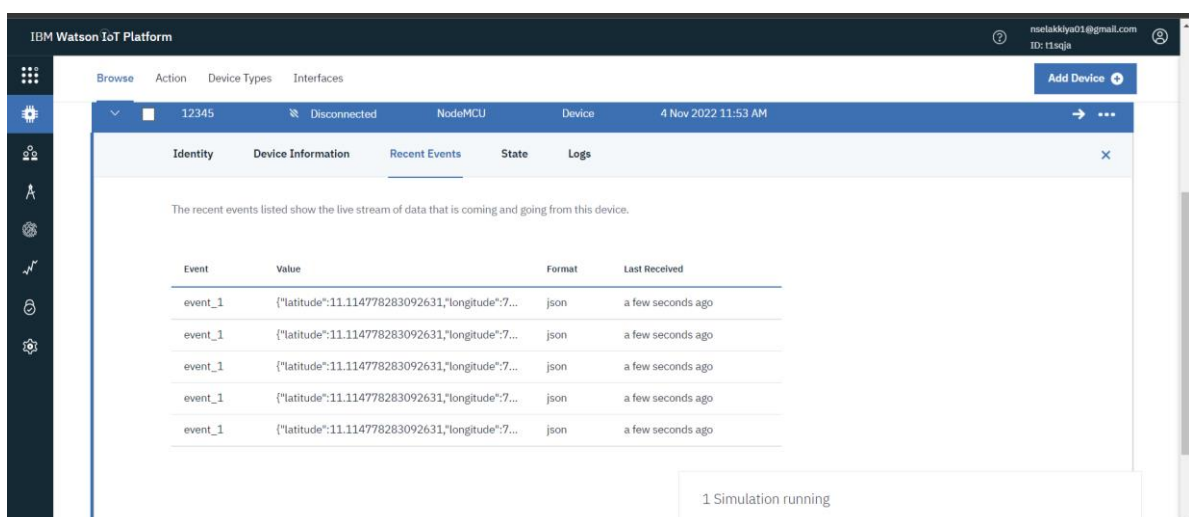
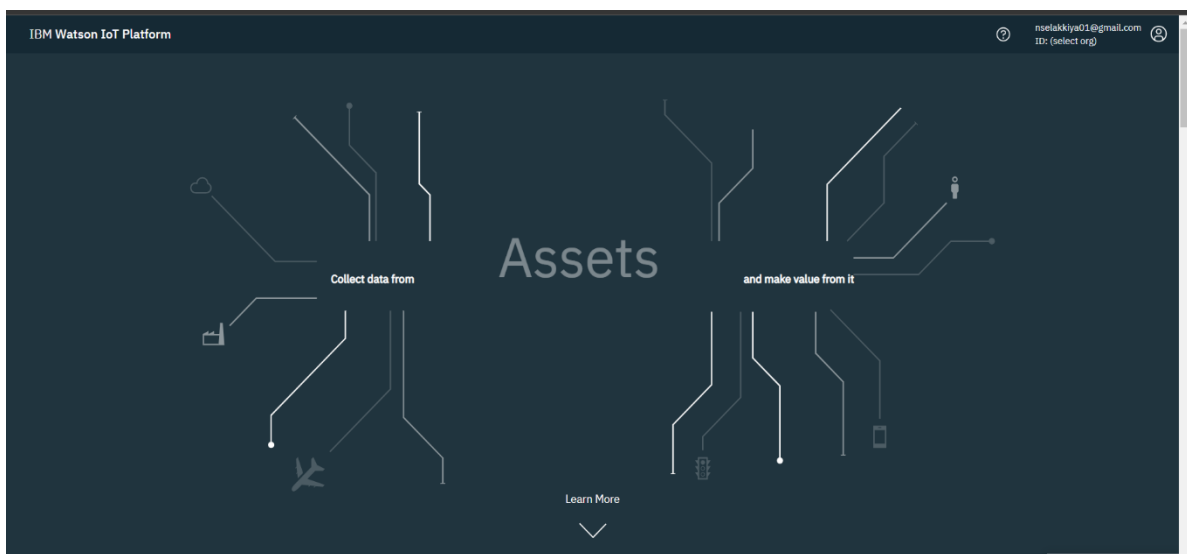
Project Development –Delivery plan sprint-2

IoT Based Safety Gadget for Child Safety Monitoring & Notification

TEAM ID:PNT2022TMID42649

Creating and Connecting IBM cloud for Project and Python Code

Creating IBM Cloud Service and creating the device:



Creating Python Code:

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

myConfig = {
    "identity":{
        "orgId": "t1sqja",
        "typeId": "NodeMCU",
        "deviceId": "12345"
    },
    "auth": {
        "token":"12345678"
    }
}

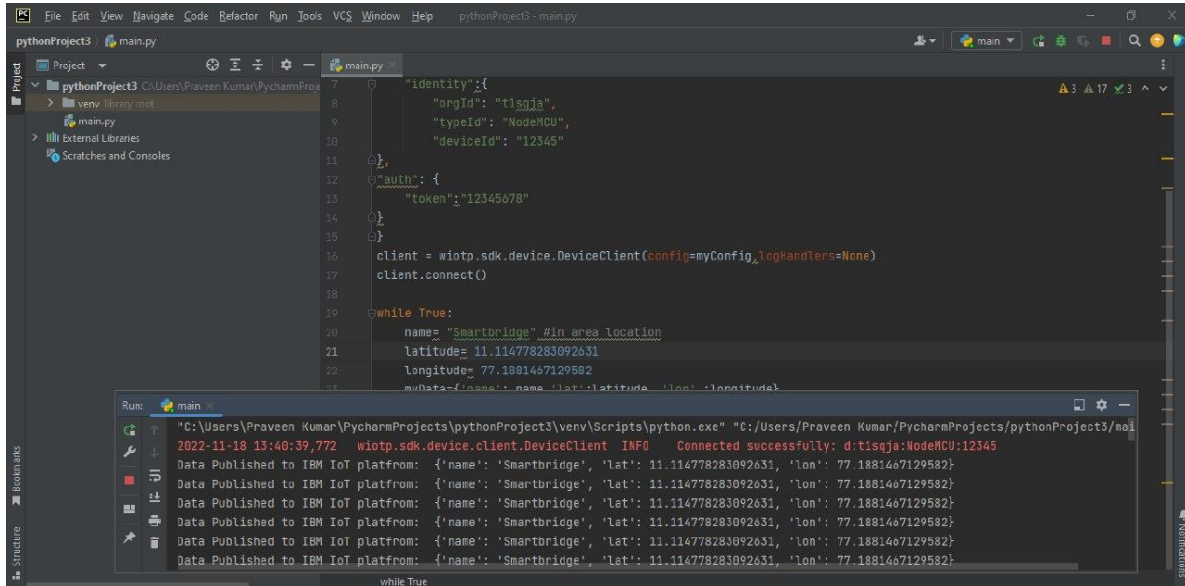
client = wiotp.sdk.device.DeviceClient(config=myConfig,logHandlers=None)
client.connect()

while True:
    name= "Smartbridge"
    #in area location
    latitude= 11.114778283092631
    longitude= 77.1881467129582
    #out area location
    # latitude= 11.123452065028367
    #longitude= 77.1768449916141

    myData={'name': name,'lat':latitude, 'lon' :longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=myData,
qos=0, onPublish=None)
    print("Data Published to IBM IoT platfrom: ", myData)
    time.sleep(5)
client.disconnect()
```

Connecting IBM Watson and python Code:

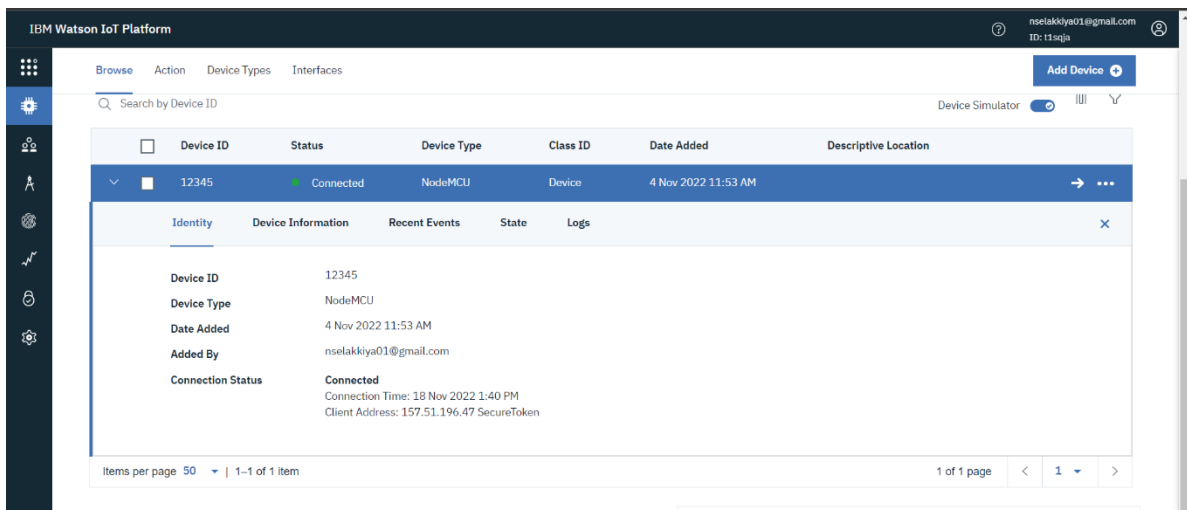
In-Area Location:



```
pythonProject3 - main.py
7  "identity":{
8      "orgId": "t1sqja",
9      "typeId": "NodeMCU",
10     "deviceId": "12345"
11 },
12 "auth": {
13     "token": "12345678"
14 }
15 }
16 client = wiotp.sdk.device.DeviceClient(config=myConfig,logHandlers=None)
17 client.connect()
18
19 while True:
20     name= "Smartbridge" #in area location
21     latitude= 11.114778283092631
22     longitude= 77.1881467129582
23     myData={ "name": name, "lat": latitude, "lon": longitude}
```

Run: main

```
"C:\Users\Praveen Kumar\PycharmProjects\pythonProject3\venv\Scripts\python.exe" "C:\Users\Praveen Kumar\PycharmProjects\pythonProject3\main.py"
2022-11-18 13:40:39,772 wiotp.sdk.device.DeviceClient INFO Connected successfully: d:t1sqja:NodeMCU:12345
Data Published to IBM IoT platform: {'name': 'Smartbridge', 'lat': 11.114778283092631, 'lon': 77.1881467129582}
Data Published to IBM IoT platform: {'name': 'Smartbridge', 'lat': 11.114778283092631, 'lon': 77.1881467129582}
Data Published to IBM IoT platform: {'name': 'Smartbridge', 'lat': 11.114778283092631, 'lon': 77.1881467129582}
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Data Published to IBM IoT platform: {'name': 'Smartbridge', 'lat': 11.114778283092631, 'lon': 77.1881467129582}
```



IBM Watson IoT Platform						
Browse Action Device Types Interfaces						
Search by Device ID						
Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	
12345	Connected	NodeMCU	Device	4 Nov 2022 11:53 AM		
Identity Device Information Recent Events State Logs						
Device ID		12345				
Device Type		NodeMCU				
Date Added		4 Nov 2022 11:53 AM				
Added By		nsekkkiya01@gmail.com				
Connection Status		Connected Connection Time: 18 Nov 2022 1:40 PM Client Address: 157.51.196.47 SecureToken				

Out-Area Location:

```
pythonProject3 - main.py
7  "identity": {
8      "orgId": "t1sqja",
9      "typeId": "NodeMCU",
10     "deviceId": "12345"
11 },
12 "auth": {
13     "token": "12345678"
14 }
15 }
16 client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
17 client.connect()
18
19 while True:
20     name= "Smartbridge" #in_area_location
21     latitude= 11.123452065028367
22     longitude= 77.1768449916141
23     payload={ "name": name, "lat": latitude, "lon": longitude }
```

Run: main %

```
2022-11-18 13:46:42,596 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:t1sqja:NodeMCU:12345
Data Published to IBM IoT platform: {'name': 'Smartbridge', 'lat': 11.123452065028367, 'lon': 77.1768449916141}
Data Published to IBM IoT platform: {'name': 'Smartbridge', 'lat': 11.123452065028367, 'lon': 77.1768449916141}
Data Published to IBM IoT platform: {'name': 'Smartbridge', 'lat': 11.123452065028367, 'lon': 77.1768449916141}
Data Published to IBM IoT platform: {'name': 'Smartbridge', 'lat': 11.123452065028367, 'lon': 77.1768449916141}
Data Published to IBM IoT platform: {'name': 'Smartbridge', 'lat': 11.123452065028367, 'lon': 77.1768449916141}
```

IBM Watson IoT Platform

Search by Device ID

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
12345	Connected	NodeMCU	Device	4 Nov 2022 11:53 AM	

Identity

Device Information

Recent Events

State

Logs

Device ID	12345
Device Type	NodeMCU
Date Added	4 Nov 2022 11:53 AM
Added By	nseelakkiya01@gmail.com
Connection Status	Connected Connection Time: 18 Nov 2022 1:46 PM Client Address: 157.51.196.47 SecureToken

Items per page 50 | 1-1 of 1 item

1 of 1 page