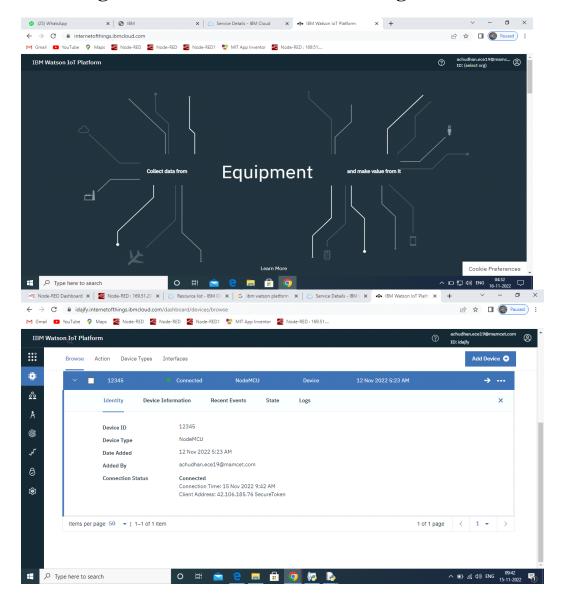# Project Development –Delivery plan sprint-2

IoT Based Safety Gadget for Child Safety Monitoring & Notification

TEAM ID:PNT2022TMID45172

Creating and Connecting IBM cloud for Project and Python Code

Creating IBM Cloud Service and creating the device:

Creating Python Code:

```python
import json
import wiotp.sdk.device
import time
myConfig={
    "identity": {
        "orgId":"idajfy",
        "typeId": "NodeMCU",
        "deviceId":"12345"
    },
    "auth": {
        "token": "12345678"
        }
}
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
        name="childtracker"
        #in area location

        #latitude=10.99544
        #longitude=78.77988

        #out area location

        latitude=10.994131
        longitude=78.780154
        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(1000)

client.disconnect()
```

Connecting IBM Watson and python Code:

In-Area Location:

```python
import json
import wiotp.sdk.device
import time
myConfig={
    "identity": {
        "orgId":"idajfy",
        "typeId": "NodeMCU",
        "deviceId":"12345"
    },
    "auth": {
        "token": "12345678"
    }
}
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    name="childtracker"
    #in area location

    latitude=10.99544
    longitude=78.77988

    #out area location

    #latitude=10.994131
    #longitude=78.780154
    myData={'name': name, 'lat':latitude, 'lon':longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos
    print("Data published to IBM IoT platfrom: ",myData)
    time.sleep(5)

client.disconnect()
```

Out-Area Location:
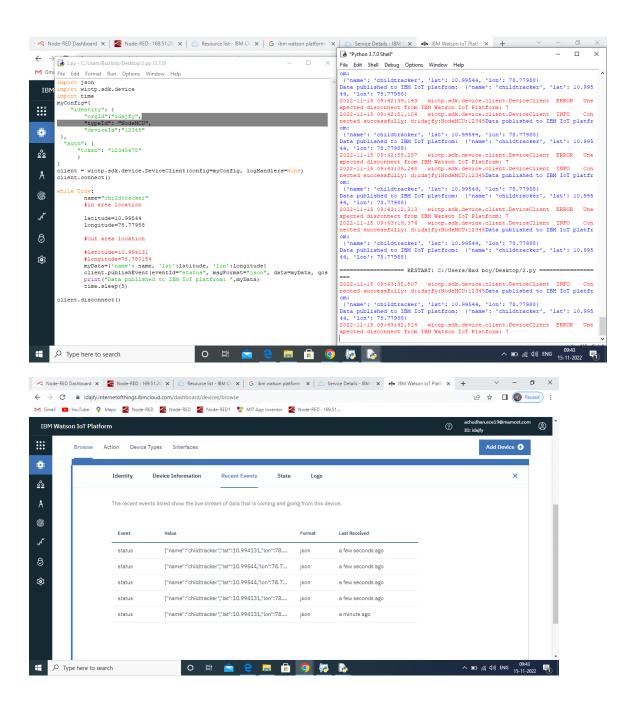
```python
import json
import wiotp.sdk.device
import time
myConfig={
    "identity": {
        "orgId":"idajfy",
        "typeId": "NodeMCU",
        "deviceId":"12345"
},
    "auth": {
        "token": "12345678"
        }
}
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
        name="childtracker"
        #in area location

        # latitude=10.99544
        #longitude=78.77988

        #out area location

        latitude=10.994131
        longitude=78.780154
        myData={'name': name, 'lat':latitude, 'lon':longitude}
        client.publishEvent(eventId="status", msgFormat="json", data=myData, qos
        print("Data published to IBM IoT platfrom: ",myData)
        time.sleep(5)

client.disconnect()
```

```
2022-11-15 09:44:04,237   wiotp.sdk.device.client.DeviceClient   INFO   Con
nected successfully: d:idajfy:NodeMCU:12345Data published to IBM IoT platfr
om:
    {'name': 'childtracker', 'lat': 10.99544, 'lon': 78.77988}
Data published to IBM IoT platfrom: {'name': 'childtracker', 'lat': 10.995
44, 'lon': 78.77988}
2022-11-15 09:44:11,101   wiotp.sdk.device.client.DeviceClient   ERROR   Une
xpected disconnect from IBM Watson IoT Platform: 7
2022-11-15 09:44:23,072   wiotp.sdk.device.client.DeviceClient   INFO   Con
nected successfully: d:idajfy:NodeMCU:12345Data published to IBM IoT platfr
om:
    {'name': 'childtracker', 'lat': 10.99544, 'lon': 78.77988}

==================== RESTART: C:/Users/Bad boy/Desktop/2.py ================
===
2022-11-15 09:44:33,924   wiotp.sdk.device.client.DeviceClient   INFO   Con
nected successfully: d:idajfy:NodeMCU:12345Data published to IBM IoT platfr
om:
    {'name': 'childtracker', 'lat': 10.994131, 'lon': 78.780154}
Data published to IBM IoT platfrom: {'name': 'childtracker', 'lat': 10.994
131, 'lon': 78.780154}
2022-11-15 09:44:40,759   wiotp.sdk.device.client.DeviceClient   ERROR   Une
xpected disconnect from IBM Watson IoT Platform: 7
2022-11-15 09:44:47,851   wiotp.sdk.device.client.DeviceClient   INFO   Con
nected successfully: d:idajfy:NodeMCU:12345Data published to IBM IoT platfr
om:
    {'name': 'childtracker', 'lat': 10.994131, 'lon': 78.780154}
Data published to IBM IoT platfrom: {'name': 'childtracker', 'lat': 10.994
131, 'lon': 78.780154}
2022-11-15 09:44:54,820   wiotp.sdk.device.client.DeviceClient   ERROR   Une
xpected disconnect from IBM Watson IoT Platform: 7
2022-11-15 09:45:01,774   wiotp.sdk.device.client.DeviceClient   INFO   Con
nected successfully: d:idajfy:NodeMCU:12345Data published to IBM IoT platfr
om:
    {'name': 'childtracker', 'lat': 10.994131, 'lon': 78.780154}
Data published to IBM IoT platfrom: {'name': 'childtracker', 'lat': 10.994
131, 'lon': 78.780154}
2022-11-15 09:45:08,737   wiotp.sdk.device.client.DeviceClient   ERROR   Une
xpected disconnect from IBM Watson IoT Platform: 7
```

IBM Watson IoT Platform

achudhan.ece19@mamcet.com
ID: idajfy

Browse   Action   Device Types   Interfaces

Add Device

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
status	{"name":"childtracker","lat":10.994131,"lon":78....	json	a few seconds ago
status	{"name":"childtracker","lat":10.99544,"lon":78.7...	json	a few seconds ago
status	{"name":"childtracker","lat":10.99544,"lon":78.7...	json	a few seconds ago
status	{"name":"childtracker","lat":10.994131,"lon":78....	json	a few seconds ago
status	{"name":"childtracker","lat":10.994131,"lon":78....	json	a minute ago