

Sprint 2

Date	12 SEPTEMBER 2022
Team ID	PNT2022TMID41897
Project Name	Smart waste management system for metropolitan cities
Story Points	15

Develop the python code to find the GPS location using Latitude and Longitude (random values) and send it to Node red using IBM Watson platform and view location of bins on map

PYTHON CODE:

```
import wiotp.sdk.device
import time
import json
myConfig = {
    "identity": {
        "orgId": "1086aa",
        "typeId": "scriptpy",
        "deviceId": "12345"
    },
    "auth": {
        "token": "123456789"
    }
}
client = wiotp.sdk.device.DeviceClient(config=myConfig,
logHandlers=None)
client.connect()

while True:
    name="smartbridge"
    latitude=17.4225176
    longitude=70.5450042
```

```
client.disconnect ()
```

Output in python IDLE :

```
long.py - C:\Users\nandh\Documents\ibmpython\long.py (3.6.5)
File Edit Format Run Options Window Help

import wiotp.sdk.device
import time
import json
myConfig = {
    "identity": {
        "orgId": "1086aa",
        "typeId": "scriptpy",
        "deviceId": "12345"
    },
    "auth": {
        "token": "123456789"
    }
}

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

while True:
    name="smartbridge"
    latitude=17.4225176
    longitude=70.5450042
    myData={'name': 'name', 'lat': latitude, 'lon': longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, on
print ("Published data to IBM iot platform: %s", myData)
time.sleep(5)

client.disconnect ()
```

IBM Watson IOT platform :

IBM Watson IoT Platform

1086aa.internetofthings.ibmcloud.com/dashboard/devices/browse

622519104005@smartinternz.com
ID: 1086aa

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":"name","lat":17.4225176,"lon":70.545...	json	a few seconds ago
status	{"name":"name","lat":17.4225176,"lon":70.545...	json	a few seconds ago
status	{"name":"name","lat":17.4225176,"lon":70.545...	json	a few seconds ago
status	{"name":"name","lat":17.4225176,"lon":70.545...	json	a few seconds ago
status	{"name":"name","lat":17.4225176,"lon":70.545...	json	a few seconds ago

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Node Red Platform:

