# Project Development Phase Development Delivery of sprint-2

Date	14 November 2022
Team ID	PNT2022TMID34114
Project Name	Smart Waste Management for Metropolitan
	Cities
Story Points	5

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 the location of bins on map

### **PYTHON CODE:**

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity":{
        "orgId":"j5bxb7",
        "typeId":"IOT123edevicetype",
        "deviceId":"IOTece4"
    },
    "auth": {
        "token":"e2)-17xkqIFMvm3@II"
    }
}
def myCommandCallback(cmd):
       print("Message received from IBM IoT
Platform:%s"%cmd.data['command'])
       m=cmd.data['command']
client=wiotp.sdk.device.DeviceClient(config=myConfig,logHandlers=None)
client.connect()
```

```
def pub(data):

client.publishEvent(eventId="binstatus",msgFormat="json",data="myData",qos
=0,onPublish=None)
    print("Published data Successfully:%s",myData)

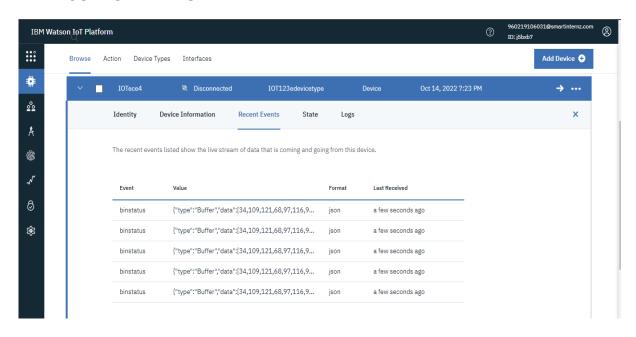
while True:
    myData={'name':'Bin1','lat':13.092677,'lon':80.188314}
    pub(myData)
    time.sleep(3)
    client.commandCallback=myCommandCallback

client.disconnect()
```

#### **OUTPUT IN PYTHON IDLE:**

```
sp-2.py - C:/Users/ELCOT/AppData/Local/Programs/Python/Python37/sp-2.py (3.7.0)
File Edit Format Run Options Window Help
                                                                                                               File Edit Shell Debug Options Window Help
import wiotp.sdk.device
                                                                                                                == RESTART: C:/Users/ELCOT/AppData/Local/Programs/Python/Python37/sp-2.py ===
import time
import random
mvConfig = {
         "identity":{
                  "orgId":"j5bxb7",
                 "typeId":"IOT123edevicetype",
                 "deviceId":"IOTece4"
         "auth": {
                  token":"e2)-17xkqIFMvm3@1I"
 def myCommandCallback(cmd):
              print("Message received from IBM IoT Platform:%s"%cmd.data['command'])
               m=cmd.data['command']
client=wiotp.sdk.device.DeviceClient(config=myConfig,logHandlers=None)
client.connect()
 def pub(data):
         client.publishEvent(eventId="binstatus",msgFormat="json",data="myData",qos=0,onPublish=None)
         print("Published data Successfully:%s",myData)
        myData={'name':'Binl','lat':13.092677,'lon':80.188314}
         pub (myData)
         time.sleep(3)
         client.commandCallback=myCommandCallback
client.disconnect()
```

## **IBM WATSON IOT PLATFORM:**



#### **NODE RED PLATFORM:**

