

# Project Development –Delivery plan sprint-2

IoT Based Safety Gadget for Child Safety Monitoring & Notification

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## Creating and Connecting IBM cloud for Project and Python Code

### Creating IBM Cloud Service and creating the device:

The screenshot displays the IBM Watson IoT Platform interface. At the top, a banner features the text "Collect data from Equipment and make value from it" with a circuit-like graphic. Below this, the main navigation bar includes "Browse", "Action", "Device Types", and "Interfaces". A search bar is present with the text "Search by Device ID". A table lists devices, with one device highlighted: "12345" with status "Connected", device type "TestDeviceType", class ID "Device", and date added "Oct 29, 2022 12:42 PM". A sidebar on the left contains icons for various functions. At the bottom, a status bar indicates "1 Simulation running".

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
12345	Connected	TestDeviceType	Device	Oct 29, 2022 12:42 PM	

Identity	Device Information	Recent Events	State	Logs
Device ID	12345			
Device Type	TestDeviceType			
Date Added	Oct 29, 2022 12:42 PM			
Added By	310819106007@smartintrnz.com			
Connection Status	Connected			
	Connection Time: Nov 11, 2022 9:01 PM			
	Client Address: 115.97.84.220 SecureToken			

## Creating Python Code:

```
import json
import
wiotp.sdk.device
import time
import
random
myConfig = {
    "identity": {
        "orgId": "4o1qxb",
        "typeId":
        "TestDeviceType",
        "deviceId": "12345"
    },
    "auth": {
        "token": "pnhXvzN-sWMKv&hxyi"
    }
}
client = wiotp.sdk .device.DeviceClient(config=myConfig,
logHandlers=None) client.connect()

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

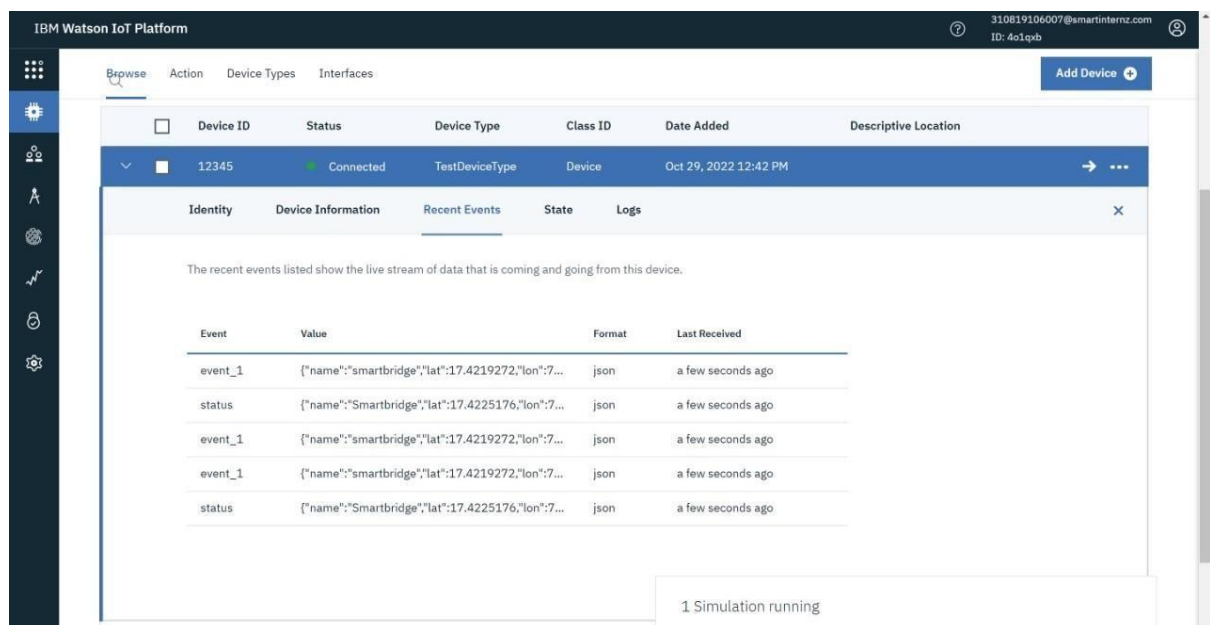
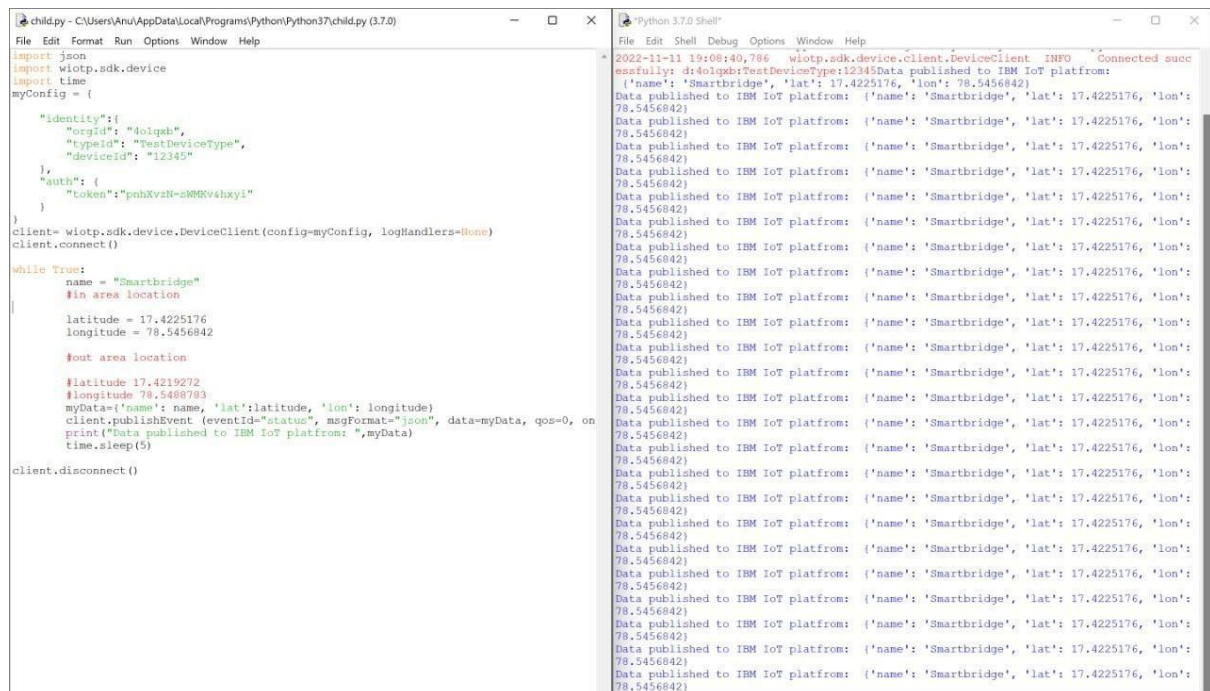
    latitude= 17.4225176
    longitude= 78.5458842

    #out area location

    #latitude= 17.4219272
    #longitude= 78.5488783
    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()
```

**In-Area Location:**



**Out-Area Location:**

The screenshot displays two terminal windows side-by-side on a Windows desktop. The left window, titled 'chld.py - C:\Users\Anu\AppData\Local\Programs\Python\Python37\chld.py (3.7.0)', shows the execution of a Python script. The script imports the json module, wiotp.sdk.device, and time. It defines a myConfig dictionary with identity, auth, and client information. The script enters a while loop that publishes data to IBM IoT platform every 5 seconds. The right window, titled 'Python 3.7.0 Shell', shows the output of the publish function: 'Data published to IBM IoT platform: {'name': 'Smartbridge', 'lat': 17.4219272, 'lon': 78.5488783}' repeated 20 times.

IBM Watson IoT Platform

310819106007@smartinternz.com

ID: 4c1qxb

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":"Smartbridge","lat":17.4219272,"lon":7...	json	a few seconds ago
event_1	{"name":"smartbridge","lat":17.4219272,"lon":7...	json	a few seconds ago
event_1	{"name":"smartbridge","lat":17.4219272,"lon":7...	json	a few seconds ago
status	{"name":"Smartbridge","lat":17.4219272,"lon":7...	json	a few seconds ago
event_1	{"name":"smartbridge","lat":17.4219272,"lon":7...	json	a few seconds ago

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1 Simulation running