

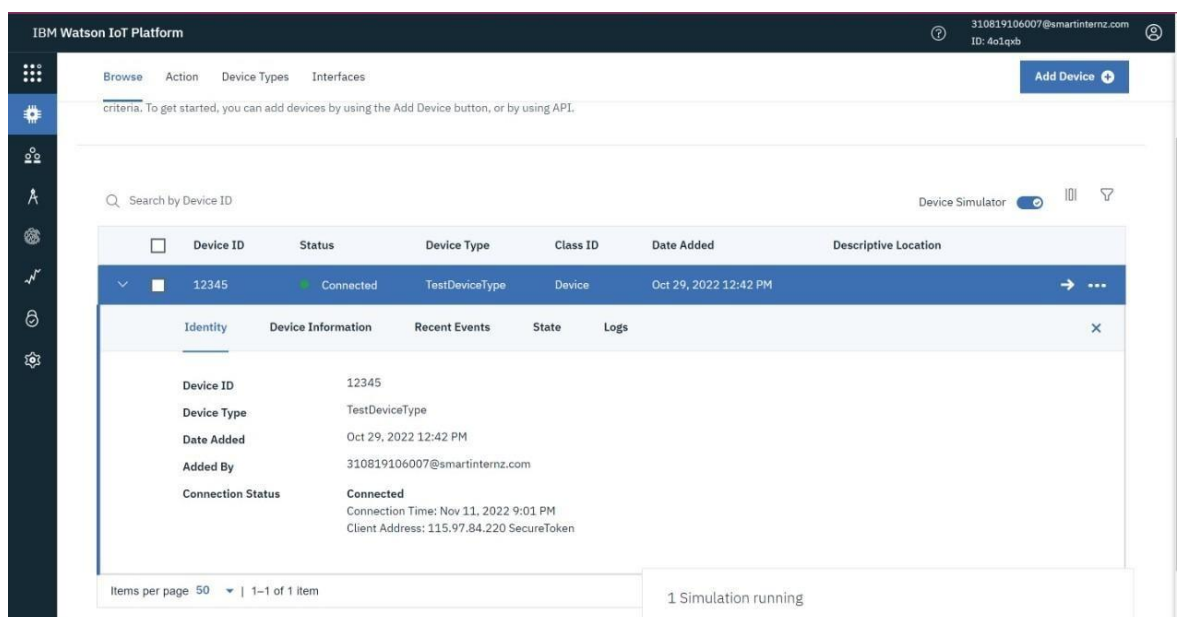
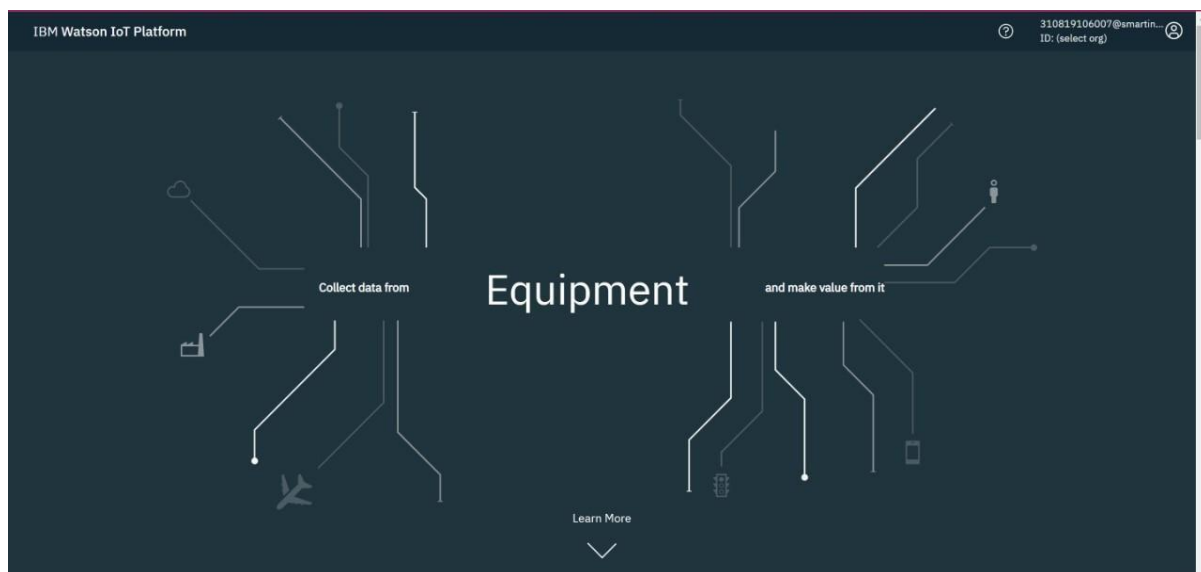
# Project Development –Delivery plan sprint-1

IoT Based Safety Gadget for Child Safety Monitoring & Notification

**TEAM ID:PNT2022TMID20150**

**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": "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:**

```
child.py - C:\Users\Anu\AppData\Local\Programs\Python\Python37\child.py (3.7.0)
File Edit Format Run Options Window Help

import json
import wiotsdk.device
import time

myConfig = {

    "identity": {
        "orgid": "d4olqab",
        "typeid": "TestDeviceType",
        "deviceid": "12345"
    },
    "auth": {
        "token": "pnhXvzN~sMRKvshxyI"
    }
}

client = wiotsdk.device.DeviceClient(config=myConfig, loghandlers=None)
client.connect()

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

    latitude = 17.4225176
    longitude = 78.5456842

    #out area location
    #latitude 17.4219272
    #longitude 78.5458783
    myData = {'name': name, 'lat': latitude, 'lon': longitude}
    client.publishEvent(eventid="status", msgFormat="json", data=myData, qos=0, on
    print("Data published to IBM IoT platform: ", myData)
    time.sleep(5)

client.disconnect()
```

The screenshot displays the IBM Watson IoT Platform interface. At the top, there's a header bar with the platform name, user information, and navigation icons. Below this, a breadcrumb trail shows 'Browse' as the active section. The main content area features a table listing devices. One device, ID 12345, is highlighted, showing it is 'Connected'. A modal window titled 'Recent Events' is open for this device, displaying a stream of events with columns for Event, Value, Format, and Last Received. The events show location coordinates being updated. A status box at the bottom right indicates '1 Simulation running'.

Browse	Action	Device Types	Interfaces	Add Device +		
<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
▼ <input checked="" type="checkbox"/>	12345	Connected	TestDeviceType	Device	Oct 29, 2022 12:42 PM	→ ...
<b>Identity</b> <b>Device Information</b> <u>Recent Events</u> 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		
event_1	{"name":"smartbridge","lat":17.4219272,"lon":7...		json	a few seconds ago		
status	{"name":"Smartbridge","lat":17.4225176,"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":17.4225176,"lon":7...		json	a few seconds ago		

1 Simulation running

**Out-Area Location:**[illegible]

IBM Watson IoT Platform

?

310819106007@martinternz.com

ID: 4a1qxb

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

Items per page 50 | 1-1 of 1 item

1 of 1 page

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1 Simulation running