

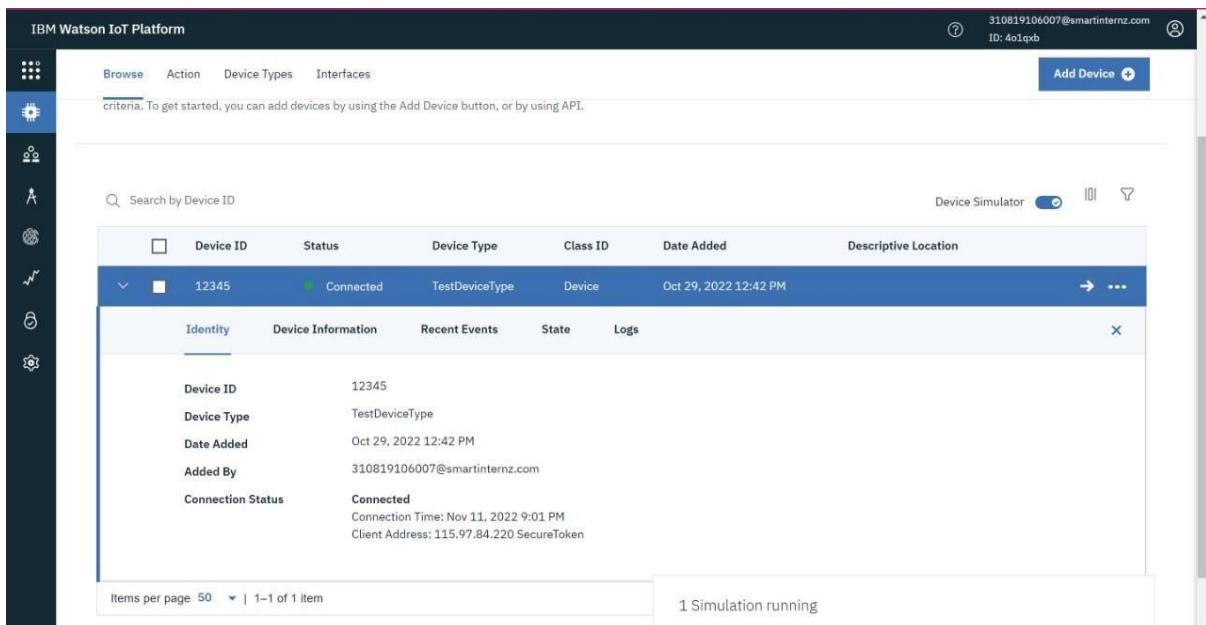
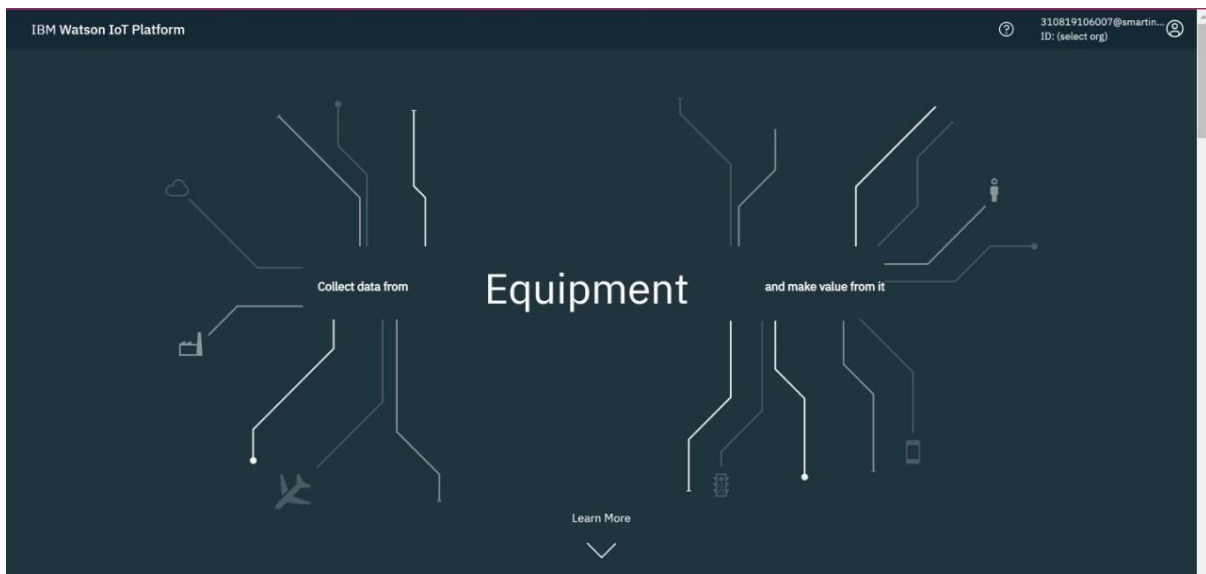
Project Development –Delivery plan sprint-1

IoT Based Safety Gadget for Child Safety Monitoring & Notification

TEAM ID: PNT2022TMID37548

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 platform: ", myData)
    time.sleep(5)
    client.disconnect()

```

Connecting IBM Watson and python Code:

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": "d401qxb",
        "typeId": "TestDeviceType",
        "deviceId": "12345"
    },
    "auth": {
        "token": "pnhXvzN~sMRvshxyi"
    }
}
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 78.5468793
    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()
```

IBM Watson IoT Platform

?

310819106007@smartinternz.com

ID: 4a1qxb

?

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	→ ...

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
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:

