

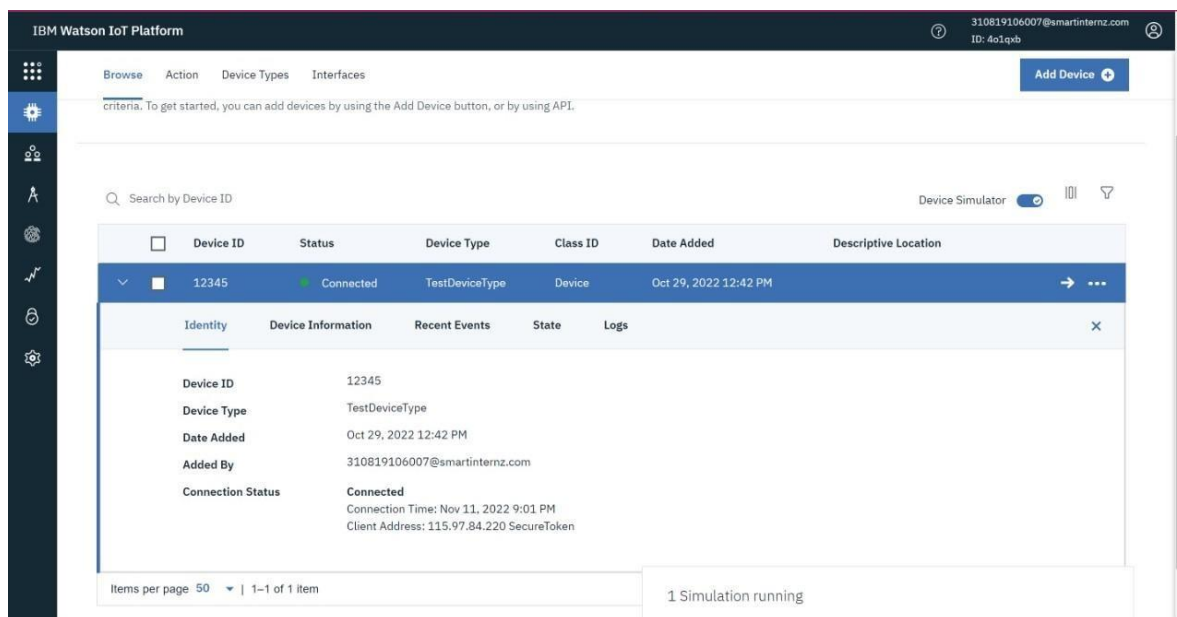
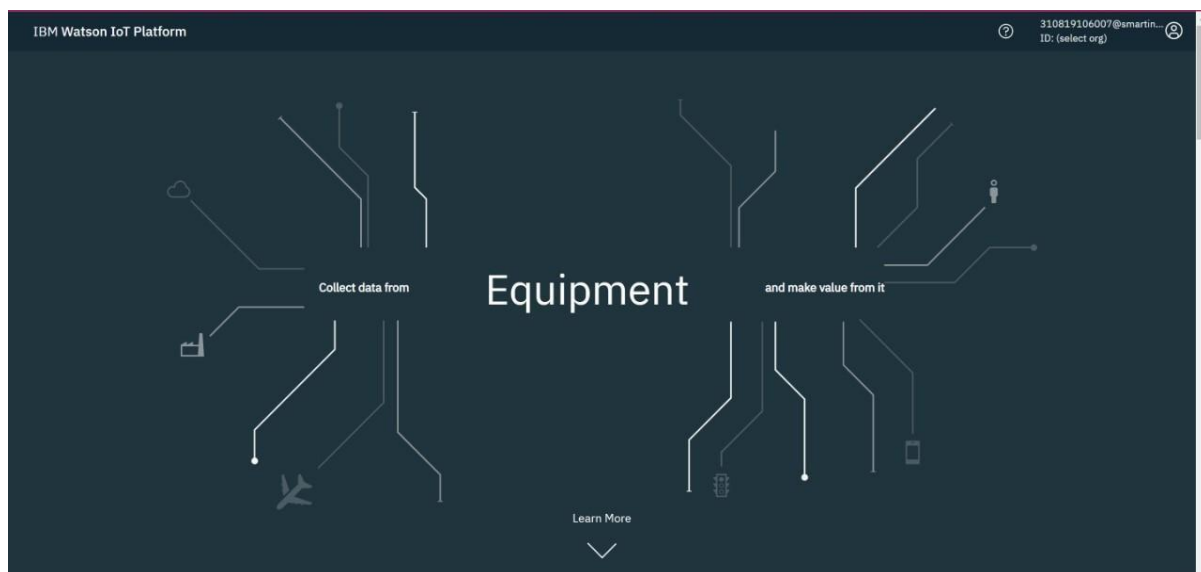
Project Development –Delivery plan sprint-1

IoT Based Safety Gadget for Child Safety Monitoring & Notification

TEAM ID: PNT2022TMID02992

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()
```

IBM Watson IoT Platform

310819106007@smartinternz.com

ID: 4o1qyb

Browse

Action

Device Types

Interfaces

Add Device

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

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:

```
File Edit Format Run Options Window Help
import json
import wiop.sdk.device
import time

myConfig = {

    "identity":{
        "orgid":"40lqpb",
        "typeid":"TestDeviceType",
        "deviceId": "12345"
    },
    "auth": {
        "token":"pnhXvZnNmMKVshxyi"
    }
}

client= WiotP.sdk.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= 78.5488783
    myData={'name': name, 'lat':'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()
```

IBM Watson IoT Platform

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310819106007@martinternz.com

ID: 4a1qxb

Browse

Action

Device Types

Interfaces

Add Device

Identity

Device Information

Recent Events

State

Logs

X

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