

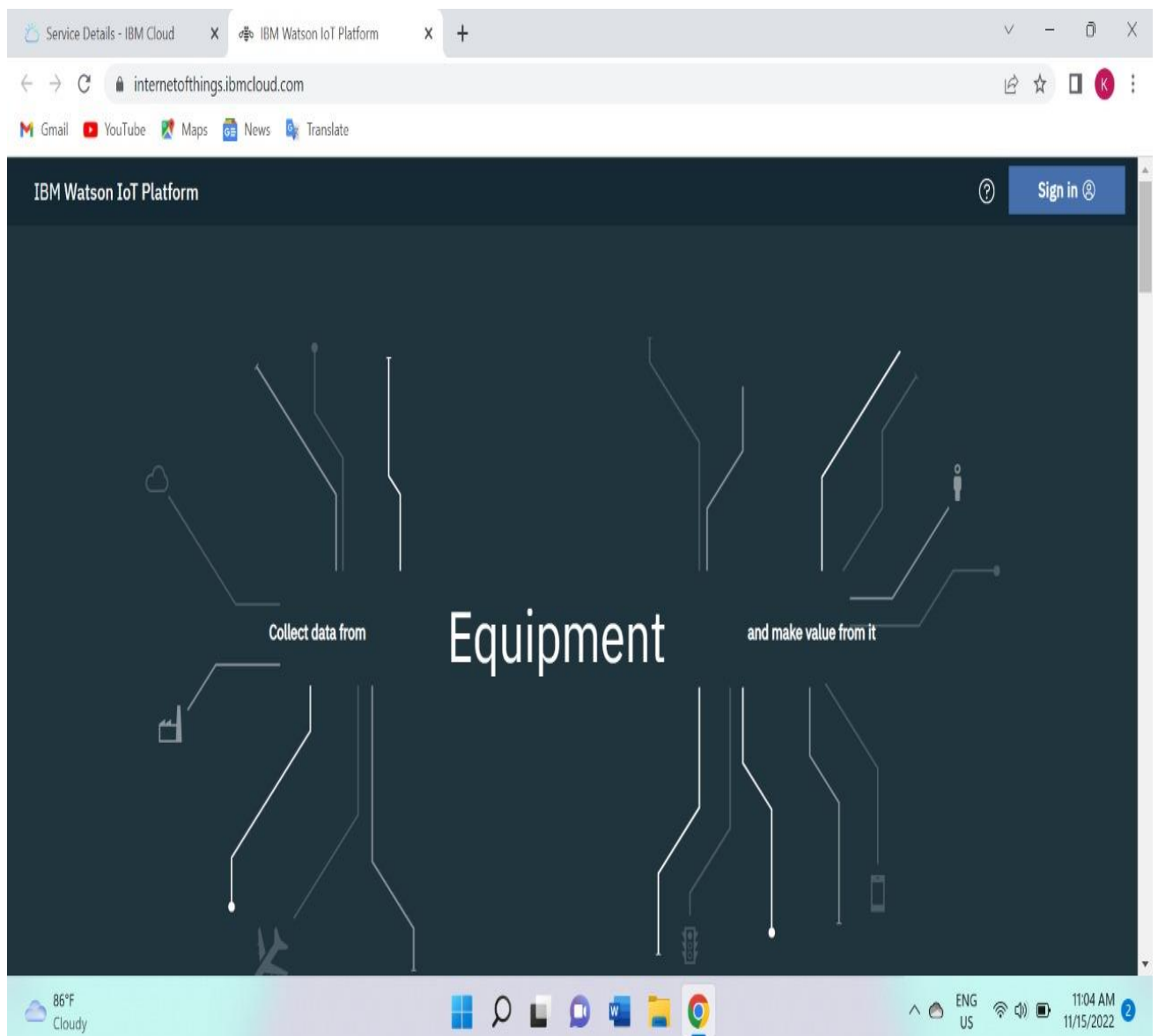
Project Development –Delivery plan sprint-1

IoT Based Safety Gadget for Child Safety Monitoring & Notification

TEAM ID: PNT2022TMID33855

Creating and Connecting IBM cloud for Project and Python Code

Creating IBM Cloud Service and creating the device:



IBM Watson IoT Platform

950819106030@smartinternz.com
ID: 1e5zwd

Browse Action Device Types Interfaces

Add Device

Search by device ID

Device Simulator

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By
12345	Disconnected	Testdevicetype	Device	Nov 15, 2022 11:24 AM		950819106030@smartinternz.com

Identity

Device Information

Recent Events

State

Logs

Device ID

12345

Device Type

Testdevicetype

Date Added

Nov 15, 2022 11:24 AM

Added By

950819106030@smartinternz.com

Connection Status

Disconnected

Last Connected: Nov 18, 2022 1:31 AM

Client Address: 223.182.225.217 SecureToken

Duration: a few seconds

Data Transferred: 159 B

Items per page 50

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1 of 1 page

77°F Haze

ENG US

7:33 PM 11/18/2022

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()
```

Service Details - IBM Cloud x IBM Watson IoT Platform x (2) WhatsApp x +

1e5zwd.internetofthings.ibmcloud.com/dashboard/devices/browse

IBM Watson IoT Platform

950819106030@smartinternz.com ID: 1e5zwd

Browse Action Device Types Interfaces

Add Device +

Browse Devices

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID Device Simulator

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
12345	Disconnected	Testdevicetype	Device	Nov 15, 2022 11:24 AM	

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80°F Mostly clear

ENG US 9:05 PM 11/18/2022

Connecting IBM Watson and python Code:

```

1 # Import the Watson IoT Python SDK
2 from watson_iot import DeviceClient
3
4 # Device ID and Location
5 device_id = "12345"
6 location = "TestLocation"
7
8 # Device Name and Type
9 device_name = "TestDevice"
10 device_type = "TestDeviceType"
11
12 # Device Credentials
13 auth = {
14     "apikey": "apikey",
15     "username": "apikey",
16     "password": "apikey"
17 }
18
19 # Create a DeviceClient instance
20 client = DeviceClient(device_id=device_id, location=location, device_name=device_name, device_type=device_type, auth=auth)
21
22 # Connect to the Watson IoT Platform
23 client.connect()
24
25 # Send data to the Watson IoT Platform
26 while True:
27     data = {
28         "location": location,
29         "status": "on"
30     }
31     client.send_data(data)
32 
```

Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/powershell

```

PS C:\Users\Bella\Documents> python .\iot.py
2022-11-18 09:05:07,476 watson_iot.device_client.device_client INFO Connected successfully to Watson IoT Platform
Data published to IBM IoT Platform: {'name': 'Test', 'lat': 6.36, 'lon': 79.540703}
2022-11-18 09:05:07,794 watson_iot.device_client.device_client INFO Imported disconnect from IBM Watson IoT Platform: 7
2022-11-18 09:05:07,812 watson_iot.device_client.device_client INFO Connected successfully to Watson IoT Platform: 12345
2022-11-18 09:05:07,894 watson_iot.device_client.device_client INFO Imported disconnect from IBM Watson IoT Platform: 7

```

Node-RED x IBM Cloud x IBM Watson IoT Platform x Node-RED x Welcome x IBM x Get SMS x WhatsApp x Error x +

1e5zwd.internetofthings.ibmcloud.com/dashboard/devices/browse

Gmail YouTube Maps News Translate New folder Node-RED : node-r... Node-RED : node-r...

IBM Watson IoT Platform

950819106030@smartinternz.com
ID: 1e5zwd

Browse Action Device Types Interfaces

Browse Devices

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Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
12345	Connected	Testdevicetype	Device	Nov 15, 2022 11:24 AM	

Identity Device Information Recent Events State Logs

Device ID 12345

Device Type Testdevicetype

75°F Partly cloudy

ENG US 12:04 AM 11/18/2022

IBM Watson IoT Platform

Browse Action Device Types Interfaces

Browse Devices

All Devices Diagnose

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Search by Device ID Device Simulator

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
12345	Connected	Testdevicetype	Device	14 Nov 2022 21:54	

Identity Device Information Recent Events State Logs

The recent events table shows the log stream of data that is coming and going from this device.

Event	Value	Format	Last Received
status	{"name":"kewell","lat":9.28,"lon":78.5488783}	json	a few seconds ago
status	{"name":"kewell","lat":9.28,"lon":78.5488783}	json	a few seconds ago
status	{"name":"kewell","lat":9.28,"lon":78.5488783}	json	a few seconds ago

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