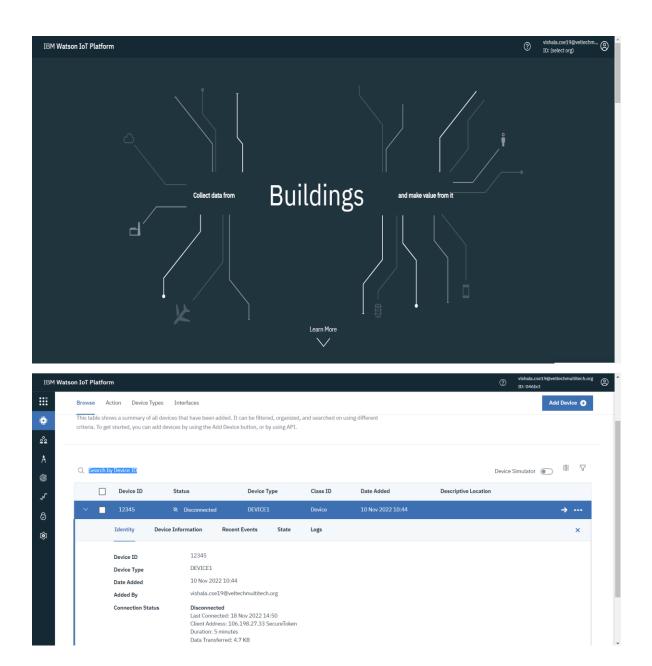
Project Development – Delivery plan sprint-2

IoT Based Safety Gadget for Child Safety Monitoring & Notification

TEAM ID:PNT2022TMID22325

Creating and Connecting IBM cloud for Project and Python Code

Creating IBM Cloud Service and creating the device:



Creating Python Code:

```
import time
import wiotp.sdk.application
from twilio.rest import Client
import twilio_keys
myConfig = {
  "identity": {
    "orgId": "046bct",
    "typeId": "DEVICE1",
    "deviceId": "12345",
  },
  "auth": {
    "token": "123456789"
  }}
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
  name = "vishal"
  # in area location
  # latitude = 17.4219272
  # longitude = 78.5488783
  # out area location
  latitude = 50.4219272
  longitude = 110.5488783
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:

```
import time
import wiotp.sdk.application

myConfig = {
    "dentity": {
        "orgid": "046bct",
        "typeId": "05VICEI",
        "deviceId": "12345",
        },
        "auth": {
        "token": "123456789"
        }
}
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    name = "Vishal"
    # in location
    latitude = 13.187928
    longitude = 80.186220
    # out location
    latitude = 10.5548783
    myData = {*name": name, "lat": latitude, "lon": longitude}
    client.publishEvent(ceventIde"status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Data published to IBH IoT Platform: ", myData)
    time.sleep(5)
elient.disconnect()
```

```
C:\Users\91994\PycharmProjects\pythonintro\venv\Scripts\python.exe C:/Users/91994/PycharmProjects/pythonintro/swap.py
2022-11-18 19:13:53,641 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:046bct:DEVICE1:12345

Data published to IBM IoT Platform: {\name': 'Vishal', 'lat': 13.18902, 'lon': 80.10622}

Data published to IBM IoT Platform: {\name': 'Vishal', 'lat': 13.18902, 'lon': 80.10622}

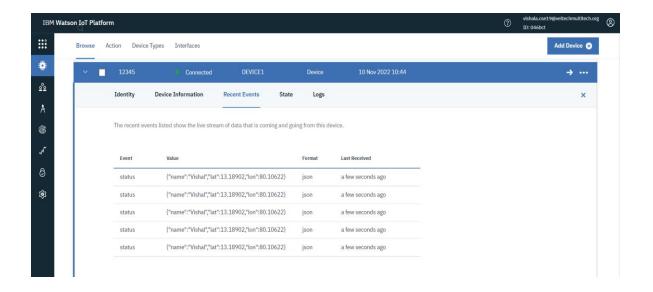
Data published to IBM IoT Platform: {\name': 'Vishal', 'lat': 13.18902, 'lon': 80.10622}

Data published to IBM IoT Platform: {\name': 'Vishal', 'lat': 13.18902, 'lon': 80.10622}

Data published to IBM IoT Platform: {\name': 'Vishal', 'lat': 13.18902, 'lon': 80.10622}

Data published to IBM IoT Platform: {\name': 'Vishal', 'lat': 13.18902, 'lon': 80.10622}

Data published to IBM IoT Platform: {\name': 'Vishal', 'lat': 13.18902, 'lon': 80.10622}
```



Out-Area Location:

```
simport time
dimport wiotp.sdk.application

smyConfig = {
    "identity": {
        "orgid": "046bct",
        "typeId": "0EVICEI",
        "deviceId": "12345",
    },
    "auth": {
        "token": "123456789"
    }
}
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

// while True:
    name = "Vishal"
    # in location
    #Intitude = 13.187920
    # slongitude = 180.196228
    # sur location
    latitude = 50.4219272
    longitude = 110.5488783
    myOsta = {"name": name, "lat": latitude, "lon": longitude}
    client.publishEvent(event(d=status", magFormat="json", data=myData, qoi=0, onPublish=None)
    print("Data published to IBM IoT Platform: ", myData)

client.disconnect()
```

```
C:\Users\91994\PycharmProjects\pythonintro\venv\Scripts\python.exe C:\Users\91994\PycharmProjects\pythonintro\swap.py
2022-11-18 19:03:01,223 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:046bct:DEVICE1:12345
Data published to IBM IoT Platform: {'name': 'Vishal', 'lat': 50.4219272, 'lon': 110.5488783}
Data published to IBM IoT Platform: {'name': 'Vishal', 'lat': 50.4219272, 'lon': 110.5488783}
Data published to IBM IoT Platform: {'name': 'Vishal', 'lat': 50.4219272, 'lon': 110.5488783}
Data published to IBM IoT Platform: {'name': 'Vishal', 'lat': 50.4219272, 'lon': 110.5488783}
Data published to IBM IoT Platform: {'name': 'Vishal', 'lat': 50.4219272, 'lon': 110.5488783}
Data published to IBM IoT Platform: {'name': 'Vishal', 'lat': 50.4219272, 'lon': 110.5488783}
Data published to IBM IoT Platform: {'name': 'Vishal', 'lat': 50.4219272, 'lon': 110.5488783}
Data published to IBM IoT Platform: {'name': 'Vishal', 'lat': 50.4219272, 'lon': 110.5488783}
```

