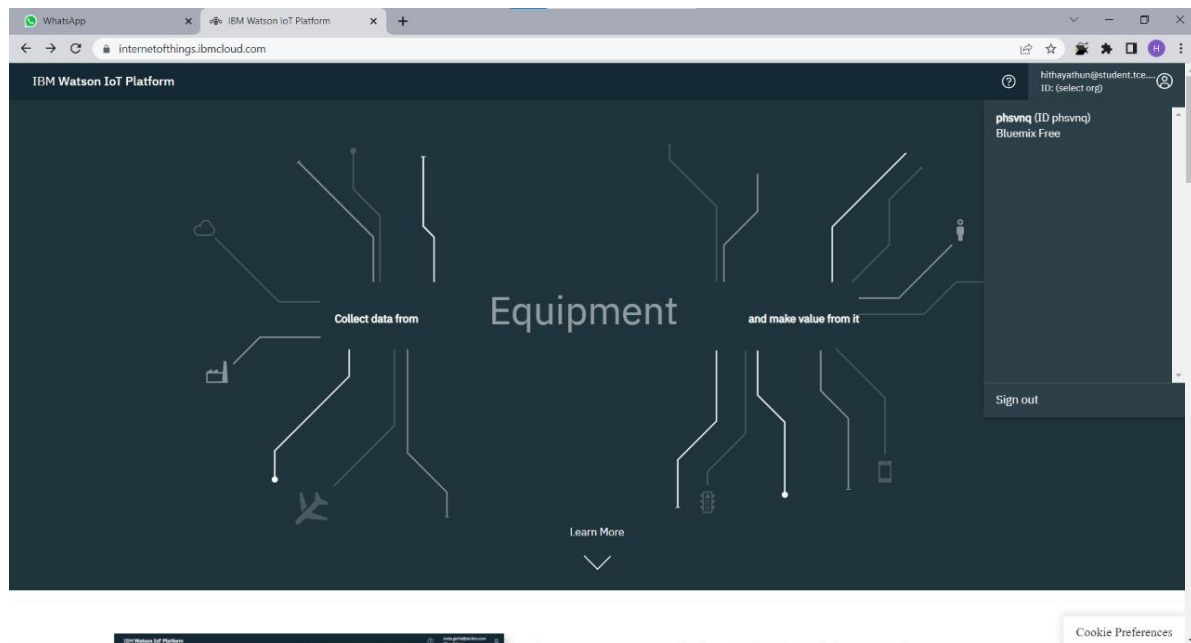


Project Development

Date	31 October 2022
Team ID	PNT2022TMID21372
Project Name	Iot Based Safety Gadget For Child Safety Monitoring & Notification
Sprint	Sprint 2

Creating and connecting IBM cloud for Project and Python Code

Creating IBM Cloud Service :



Creating the Device :

The screenshot displays the IBM Watson IoT Platform dashboard. The browser address bar shows the URL: `phsvnq.internetofthings.ibmcloud.com/dashboard/devices/browse`. The dashboard header includes the IBM Watson IoT Platform logo and a user profile for `hithayathun@student.tce.edu` with ID `phsvnq`. The main content area shows a table of devices. The first device has ID `1234`, status `Connected`, device type `CS1`, class ID `Device`, and was added on `Nov 17, 2022 9:22 PM`. Below the table, a detailed view of the device is shown, including its identity, device information, recent events, state, and logs. The connection status is `Connected`, with connection time `Nov 17, 2022 11:57 PM` and client address `106.195.44.159`. The bottom of the dashboard shows `0 Simulations running`. The browser tabs at the top include WhatsApp, Meet, IBM, IBM Watson, Cloudant, Service Design, Application, Node-RED, and an untitled document.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
1234	Connected	CS1	Device	Nov 17, 2022 9:22 PM	

Device Information:

- Device ID: 1234
- Device Type: CS1
- Date Added: Nov 17, 2022 9:22 PM
- Added By: hithayathun@student.tce.edu
- Connection Status: **Connected**
Connection Time: Nov 17, 2022 11:57 PM
Client Address: 106.195.44.159 SecureToken

Items per page: 50 | 1-1 of 1 item

1 of 1 page

0 Simulations running

In-Area Location:

```
IoTdevice.py - C:\Users\Lenovo\Downloads\Iotdevice.py (3.7.2)
File Edit Format Run Options Window Help

#import ibmiotf.application
import ibmiotf.device
import sys

config={
    "org": "phsvnq",
    "type": "CSI",
    "id": "1234",
    "auth-method": "token",
    "auth-token": "123456789"
}

client= ibmiotf.device.Client (config)
client.connect()

def myCommandCallback (cmd):
    a=cmd.data
    if len(a["command"])==0:
        pass
    else:
        print(a["command"])

def pub (data):
    client.publishEvent (event="status", msgFormat="json",data=data, qos=0)
    print("Published data Successfully: %s",data)

while True:
    name= "Childtracker"

    #in area
    latitude= 9.8796
    longitude= 78.0810

    #out area
    #latitude= 9.95143
    #longitude= 78.1158

    data={'name': name, 'lat':latitude, 'lon':longitude}
    pub(data)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```

Out-Area Location :

```
lotdevice.py - C:\Users\Lenovo\Downloads\lotdevice.py (3.7.2)
File Edit Format Run Options Window Help

#import ibmiotf.application
import ibmiotf.device
import sys

config={
    "org":"phsvnq",
    "type":"CS1",
    "id":"1234",
    "auth-method":"token",
    "auth-token":"123456789"
}

client=ibmiotf.device.Client (config)
client.connect()

def myCommandCallback (cmd):
    a=cmd.data
    if len(a["command"])==0:
        pass
    else:
        print(a["command"])

def pub (data):
    client.publishEvent (event="status", msgFormat="json",data=data, qos=0)
    print("Published data Successfully: %s",data)

while True:
    name= "Childtracker"

    #in area
    #latitude= 9.8796
    #longitude= 78.0810

    #out area
    latitude= 9.95143
    longitude= 78.1158

    data={'name': name, 'lat':latitude, 'lon':longitude}
    pub(data)
    client.commandCallback = myCommandCallback
    time.sleep(2)
    client.disconnect()
```

The screenshot displays the IBM Watson IoT Platform interface. At the top, there's a navigation bar with tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar is located below the navigation bar. The main content area shows a table of devices. One device, with ID 1234 and status 'Connected', is selected. Below the table, a 'Recent Events' section is visible, showing a stream of data events. A 'Device Simulator' button is located in the top right corner. The interface is clean and modern, with a dark sidebar on the left containing various icons for navigation.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
1234	Connected	CS1	Device	Nov 17, 2022 9:22 PM	

Event	Value	Format	Last Received
status	{"name":"Childtracker","lat":9.95143,"lon":78.1...	json	a few seconds ago
status	{"name":"Childtracker","lat":9.95143,"lon":78.1...	json	a few seconds ago
status	{"name":"Childtracker","lat":9.95143,"lon":78.1...	json	a few seconds ago
status	{"name":"Childtracker","lat":9.95143,"lon":78.1...	json	a few seconds ago
status	{"name":"Childtracker","lat":9.95143,"lon":78.1...	json	a few seconds ago

0 Simulations running