

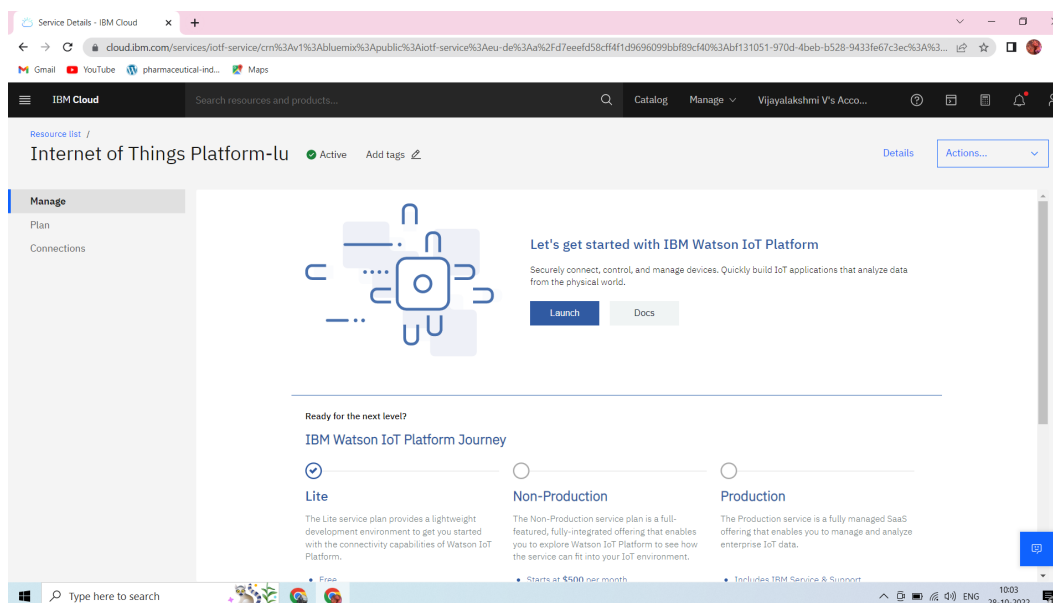
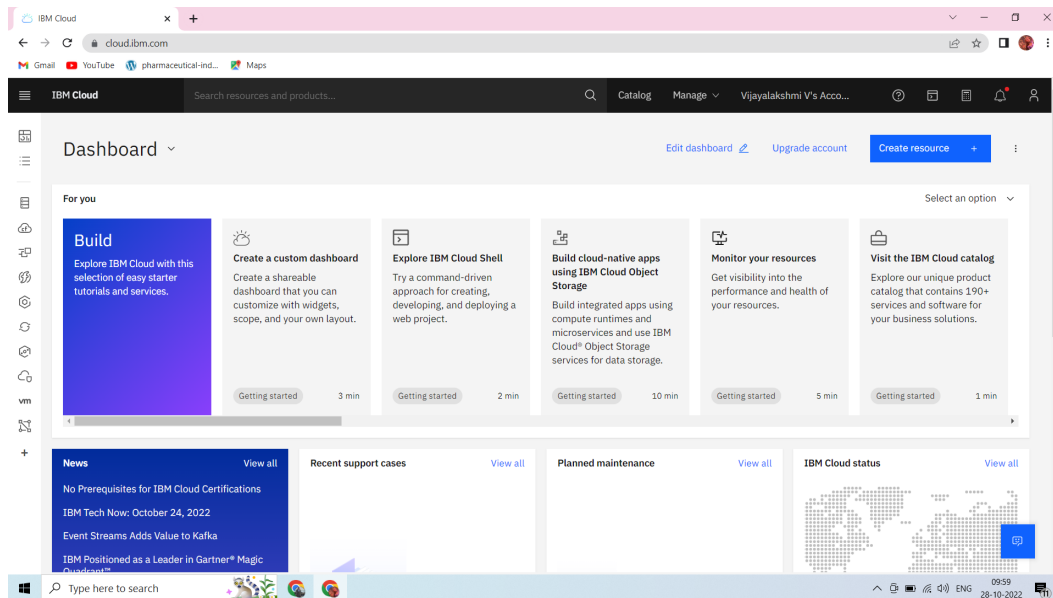
Project Development –Delivery plan sprint-1

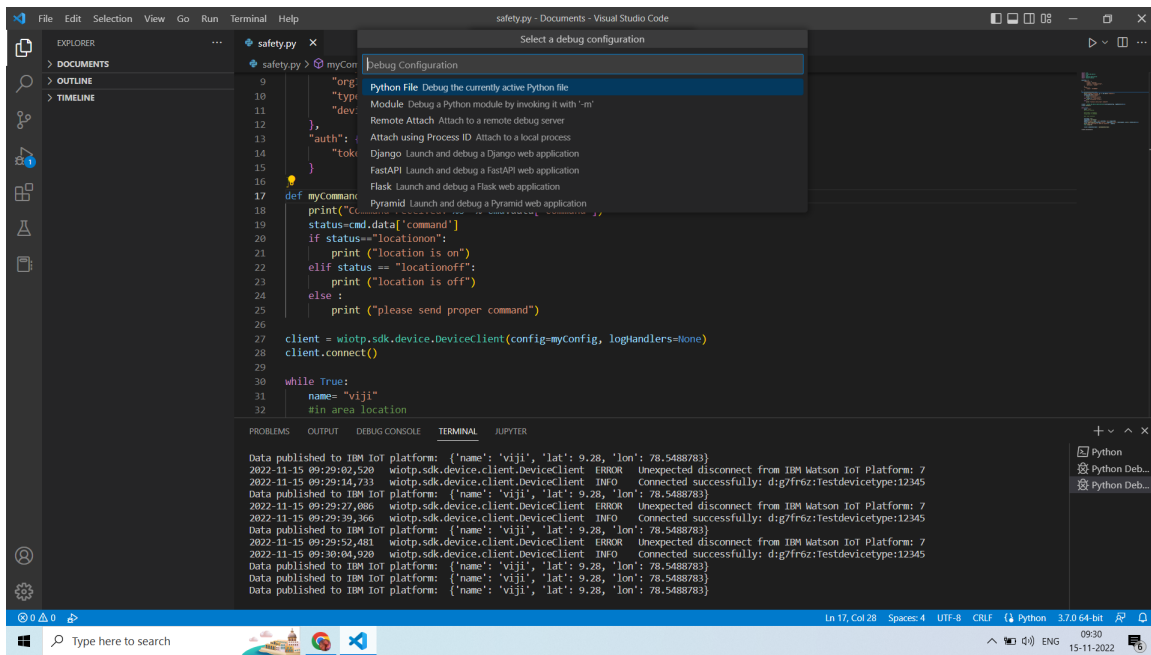
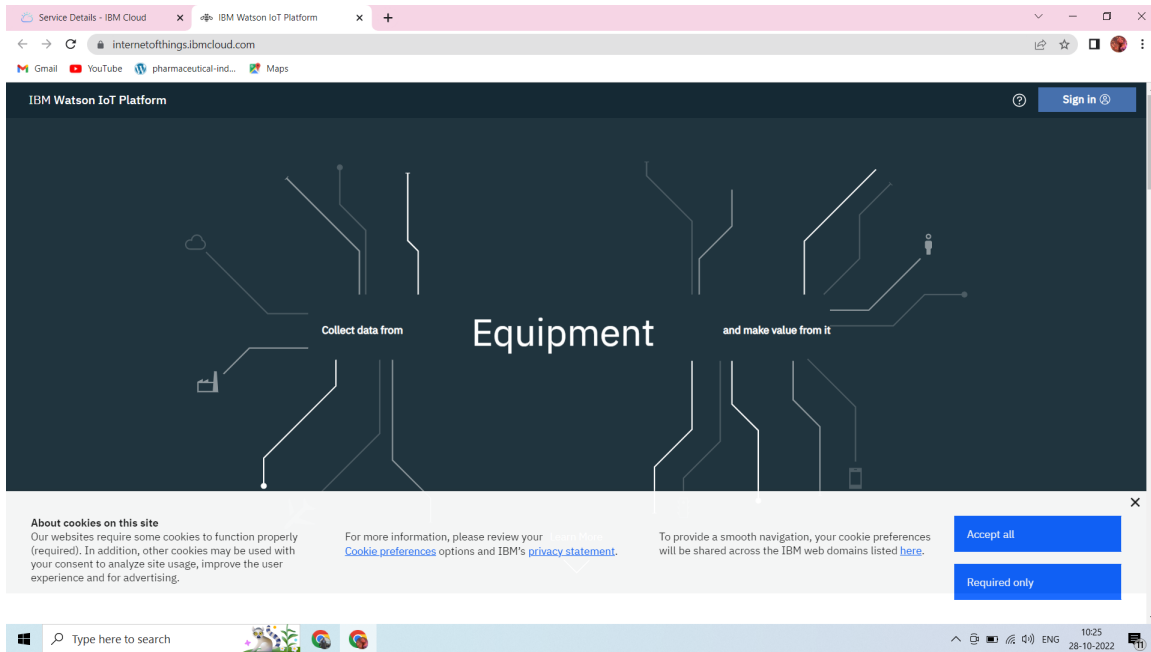
IoT Based Safety Gadget for Child Safety Monitoring & Notification

TEAM ID: PNT2022TMID33905

Creating and Connecting IBM cloud for Project and Python Code

Creating IBM Cloud Service and creating the device:





The top screenshot shows the 'Recent Events' tab for a device named 'sensor_1'. The table displays the following data:

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

The bottom screenshot shows the 'Browse Devices' page. The table displays the following data:

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
12345	Connected	Testdevicetype	Device	14 Nov 2022 9:46 PM	

Python code:

```
import json
import wiotp.sdk.device
import time
import ibmiotf.application
import ibmiotf.device
```

```

myConfig = {
    "identity": {
        "orgId": "g7fr6z",
        "typeId": "Testdeviceype",
        "deviceId": "12345"
    },
    "auth": {
        "token": "67200020"
    }
}

def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="locationon":
        print ("location is on")
    elif status == "locationoff":
        print ("location is off")
    else :
        print ("please send proper command")

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    name= "Viji"
    #in area location

    #latitude= 17.4225176
    #longitude= 78.5458842

    #out area location

    latitude= 9.28
    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(20)

    client.commandCallback = myCommandCallback

client.disconnect()

```