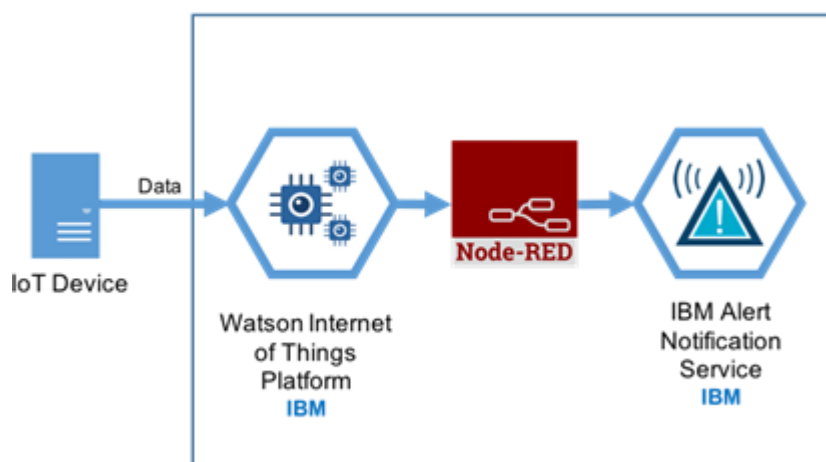


IoT Based Safety Gadget for Child Safety toring and Notification (code & working model solution)

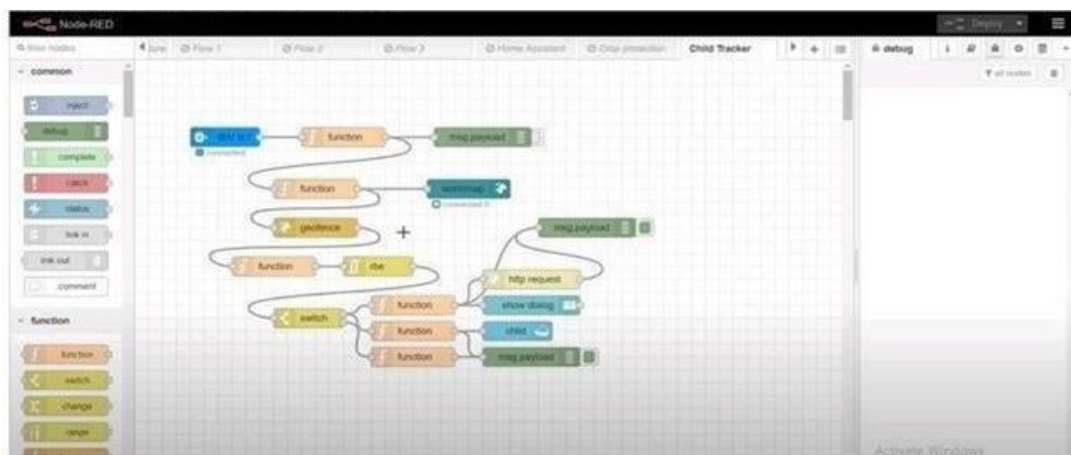
SPRINT-2

Team ID	PNT2022TMID31252
Project Name	IOT Based Safety Gadget for Child Safety Monitoring & Notification

MODEL OF CODE WORKING :



1. BUILD A NODE- RED :



2.ADD A CODE TO GET CHILD LOCATION IN PYTHON :

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

myConfig = {
    "identity": {
        "orgId": "hj5fmy",
        "typeId": "NodeMCU",
        "deviceId": "12345"
    },
    "auth": {
        "token": "12345678"
    }
}

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

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

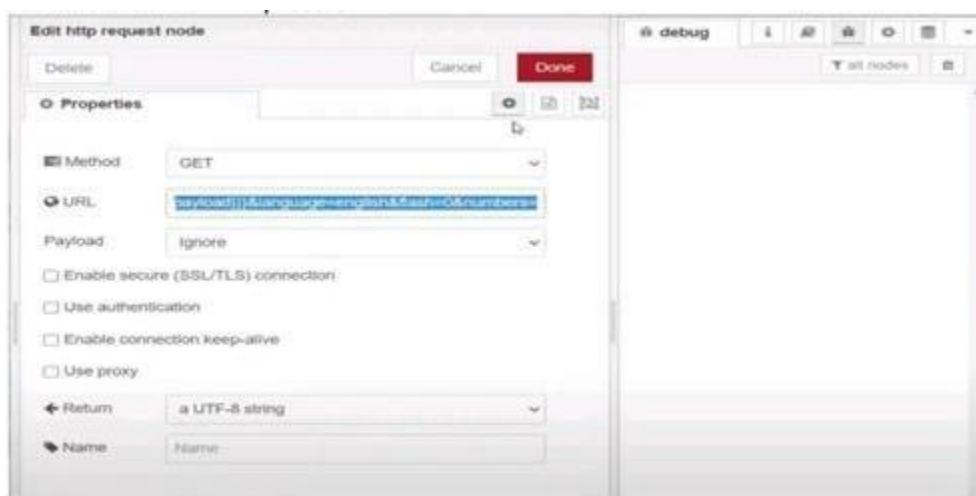
    latitude= 17.4225176
    longitude= 78.5458842

    #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 platform: ",myData)
    time.sleep(5)

client.disconnect()
```

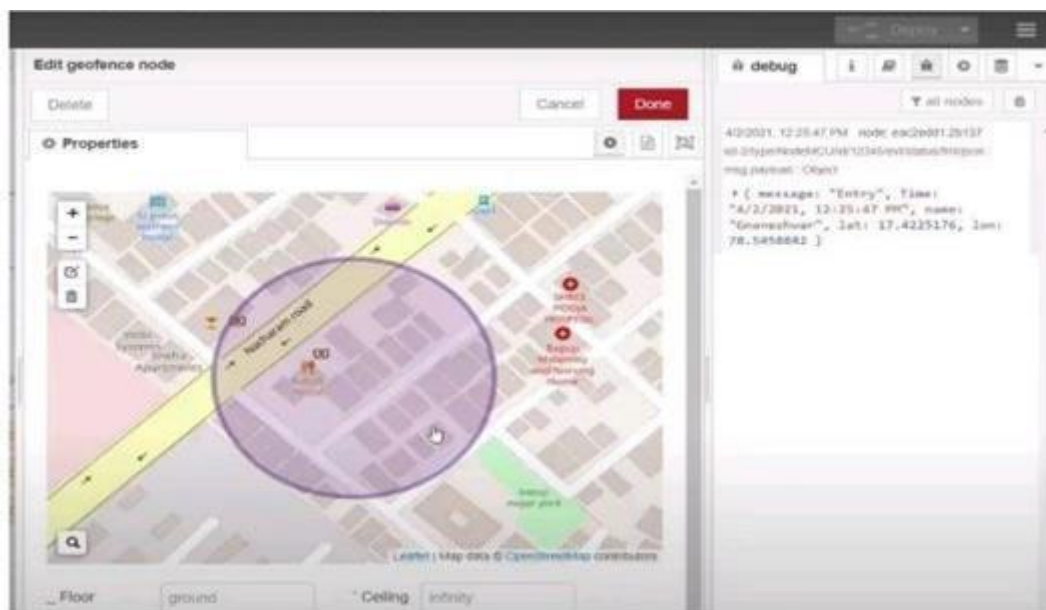
3. EDIT THE HTTP REQUEST URL :



4. LIVE LOCATION OF THE CHILD :



5. CREATE THE GEOFENCE NODE :



6. PYTHON SCRIPT SEND REQUEST YO IBM CLOUD :

```

1 import json
2 import wiotp.sdk.device
3 import time
4
5 myConfig = {
6     "identity": {
7         "orgId": "h35fwy",
8         "typeId": "NodeMCU",
9         "deviceId": "12345"
10    },
11    "auth": {
12        "token": "12345678"
13    }
14}
15 client = wiotp.sdk.device.DeviceClient(config=myConfig, loghandlers=None)
16 client.connect()
17
18 while True:
19     name= "SmartBridge"
20     #In area location
21
22     #latititude= 17.4275379
23     #longitude= 78.5458842
24
25     #out area location
26
27     latitude= 17.4219272
28     longitude= 78.5488783
29     myData={'name': name, 'lat':latitude, 'lon':longitude}
30     client.publish(eventId="status", msgFormat="json", data=myData, qos=0, onPub
31     print("Data published to IBM IoT platform: ",myData)
32     time.sleep(5)
33
34 client.disconnect()
35
36

```

Console output (repeated): Data published to IBM IoT platform:

7.RESULT : “After Running The Script, The Web UI show The Current Location & The Activity Of The Child”



TEST CASE :

TEST CASE ID	FEATURE TYPE	COMPONENT	TEST SCENARIO	EXPECTED RESULT	STATUS
TC_ID_01	UI	HOME PAGE	To track and get exact location of children	Working as expected	pass
TC_ID_02	UI	HOME PAGE	It increase the interaction of the family's with their children	Working as expected	pass