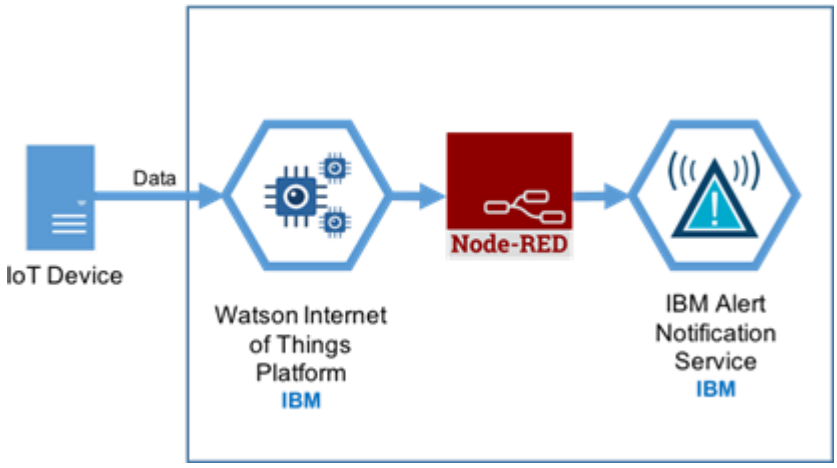
IoT Based Safety Gadget for Child Safety toring and Notification (code & working model solution)

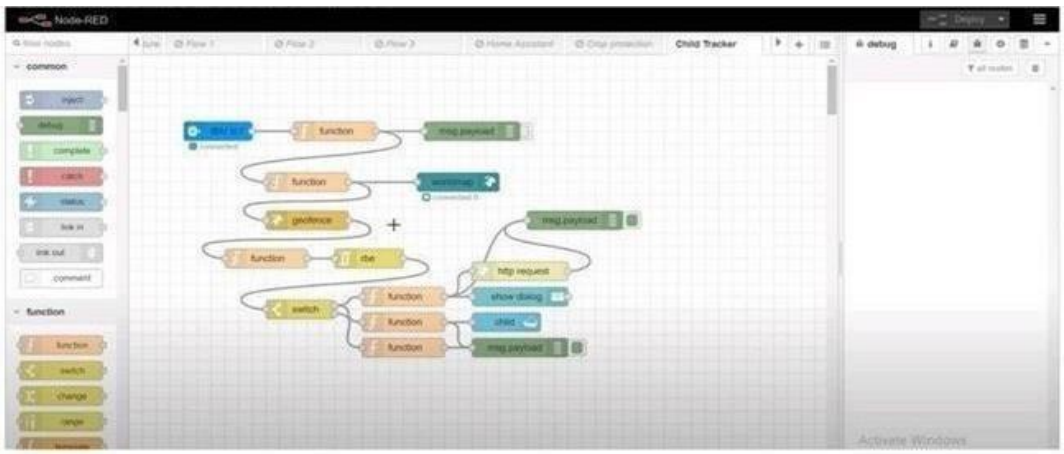
SPRINT-1

Team ID	PNT2022TMID28943
Project Name	IOT Based Safety Gadget for Child Safety Monitoring&Notification

MODEL OF CODE WORKING :



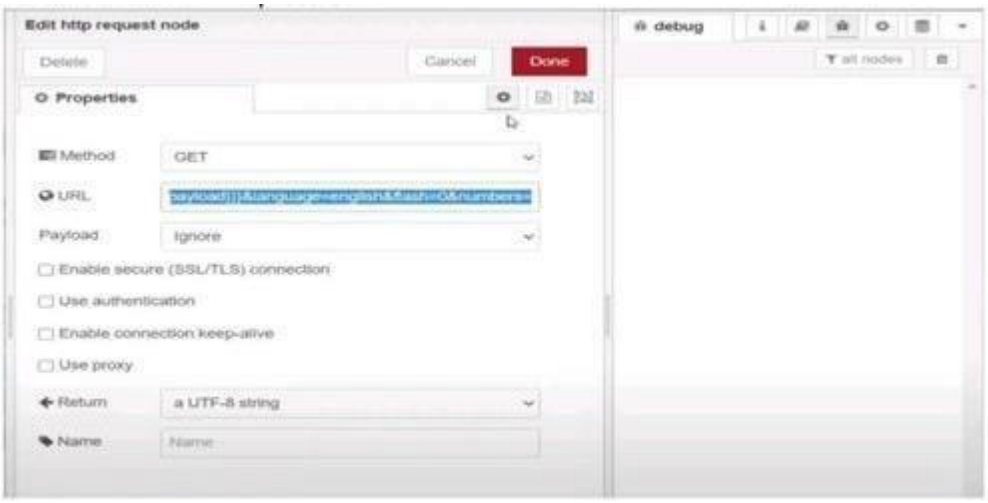
1. BUILD A NODE- RED :



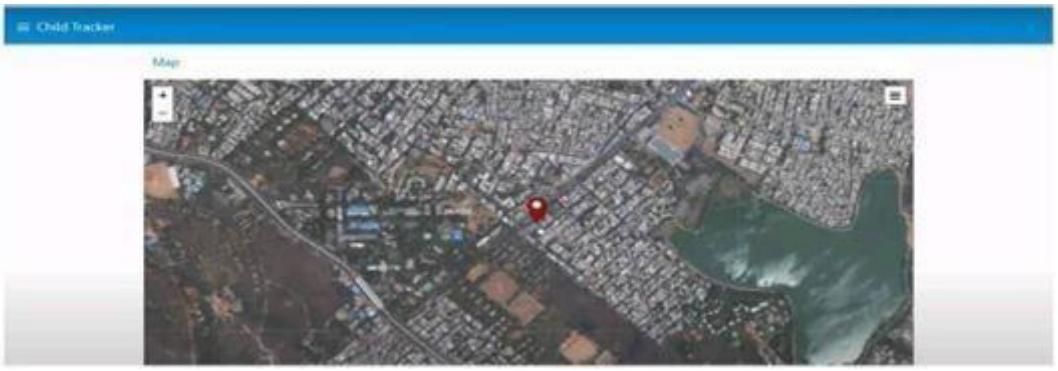
2.ADD A CODE TO GET CHILD LOCATION IN PYTHON :

```
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 platfrom: ",myData)
        time.sleep(5)

client.disconnect()
```

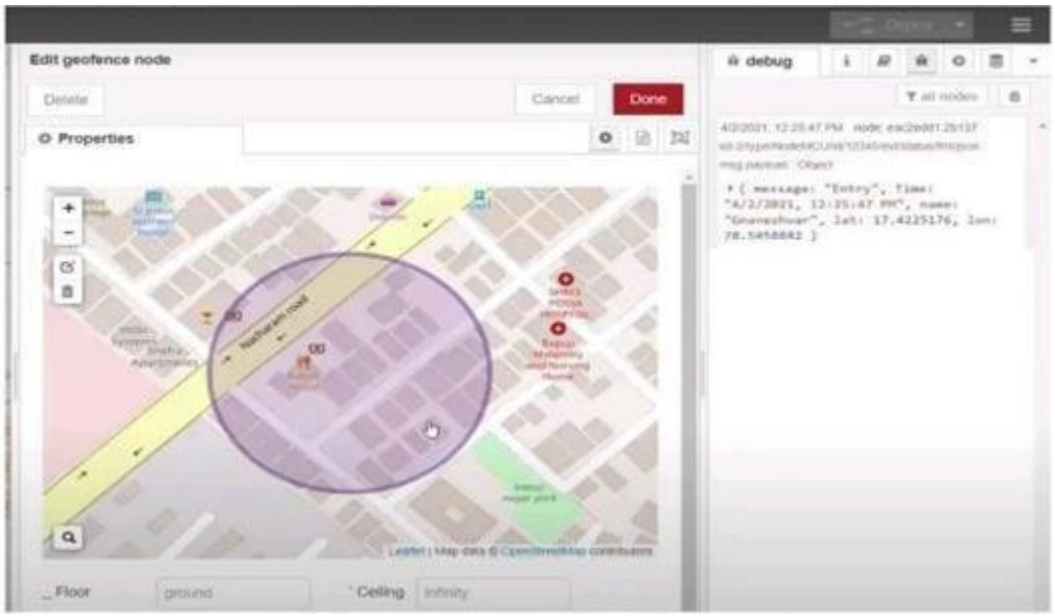
3. EDIT THE HTTP REQUEST URL :



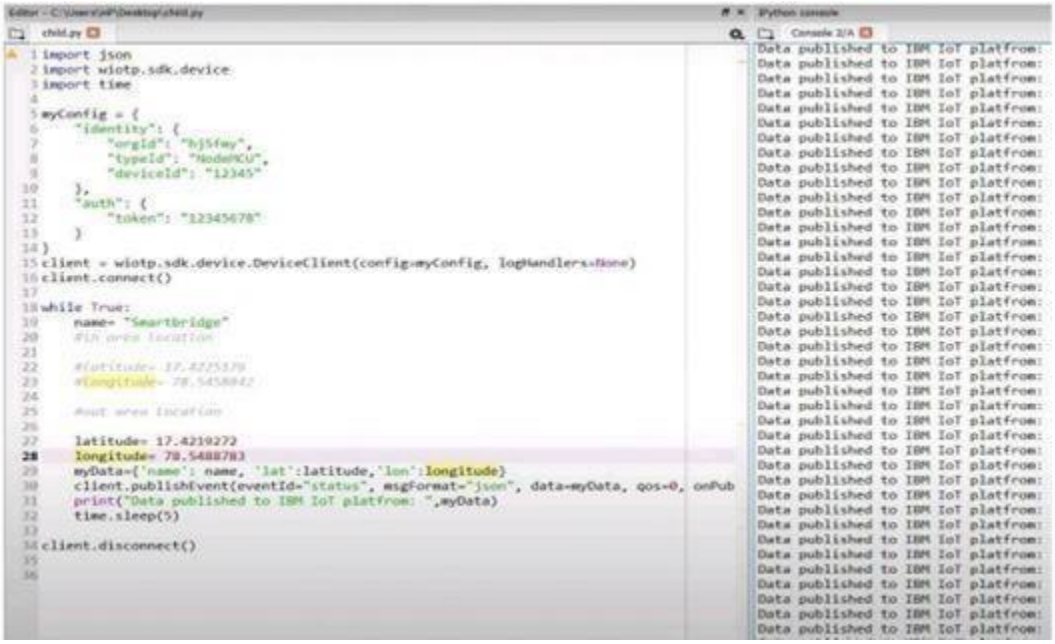
4. LIVE LOCATION OF THE CHILD :



5. CREATE THE GEOFENCE NODE :



6. PYTHON SCRIPT SEND REQUEST YO IBM CLOUD :



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