Develop a web application using Node-Red Services
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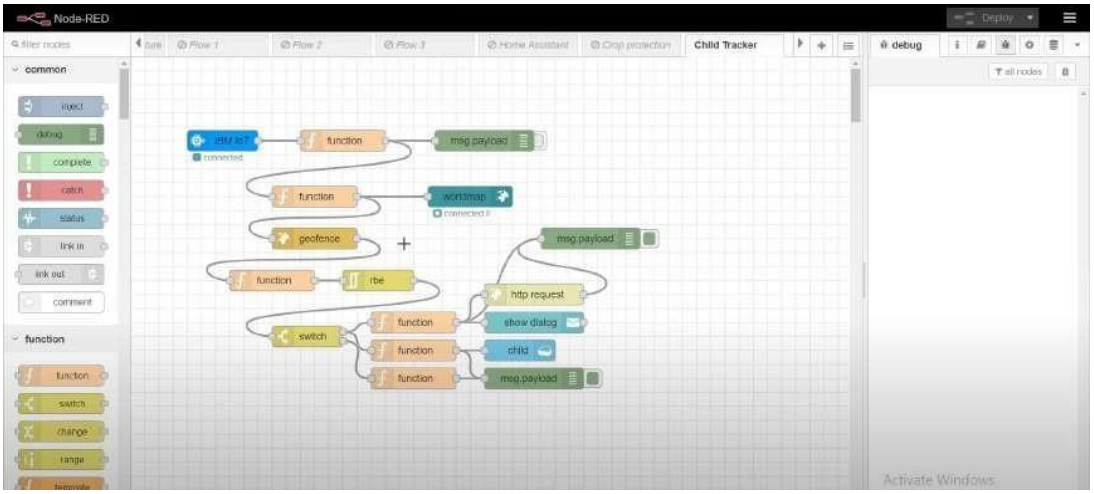
Date	14 September 2022
Team ID	PNT2022TMID13499
Project Name	Project – IoT Based Safety Gadget for Child Safety Monitoring & Notification
Maximum Marks	4 Marks

IoT Based Safety Gadget for Child Safety Monitoring & Notification

1. Develop a web application using Node-Red Services

Steps :

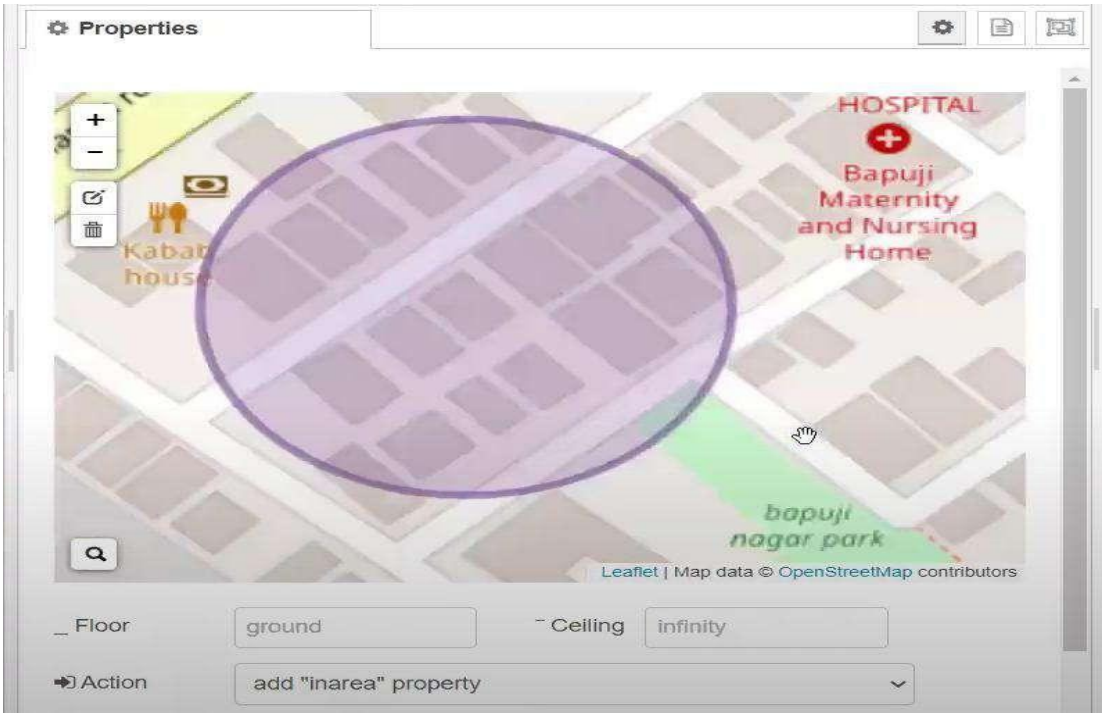
Open a Node-RED project



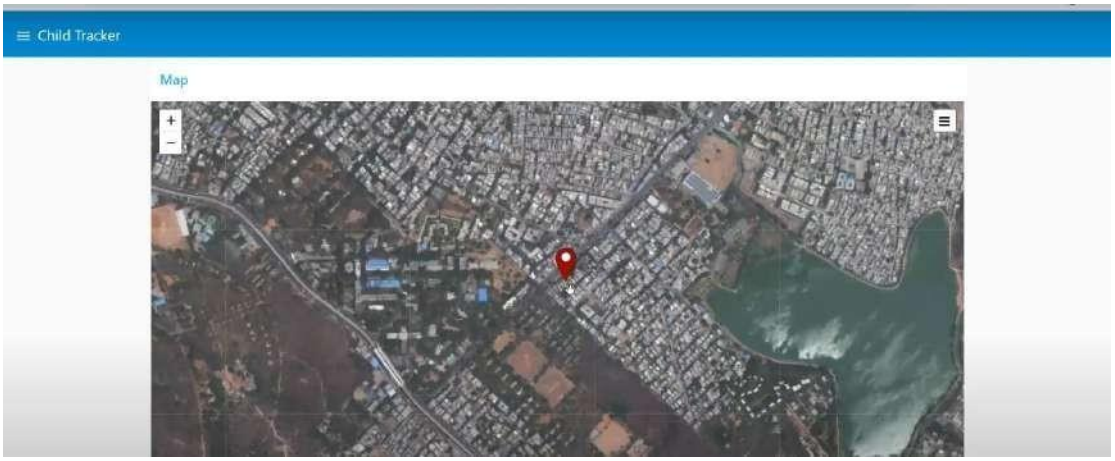
1. Add code to get location in python

```
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()
```

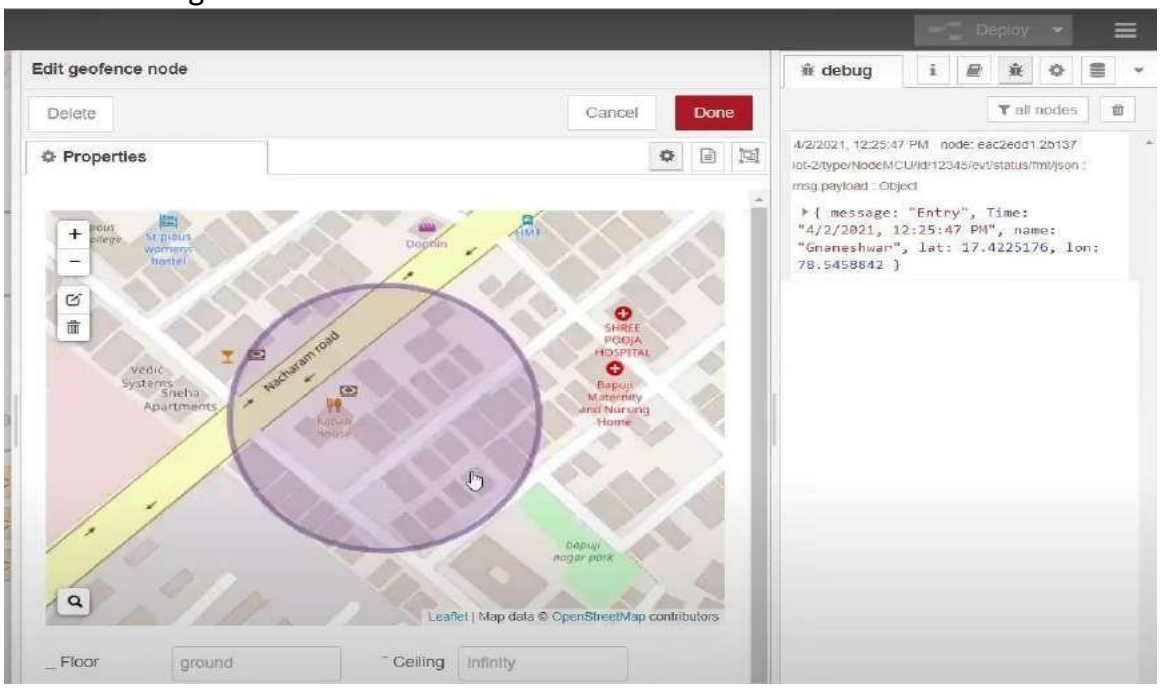
2. Create the Geofence



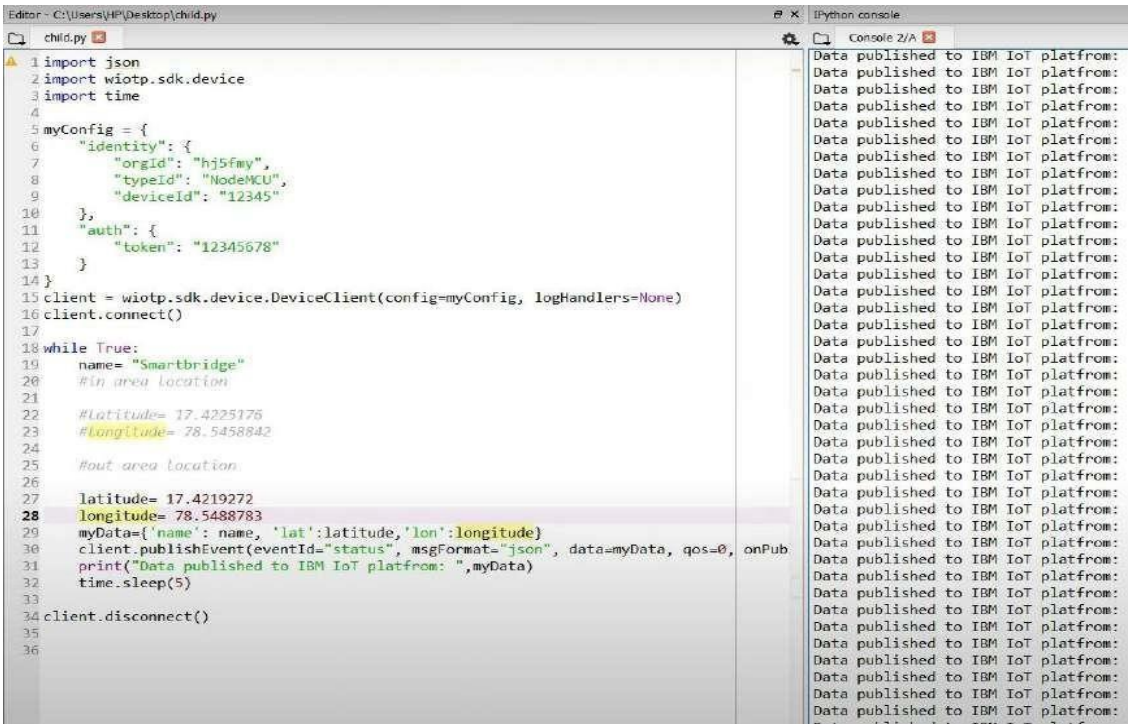
3. Locate the place



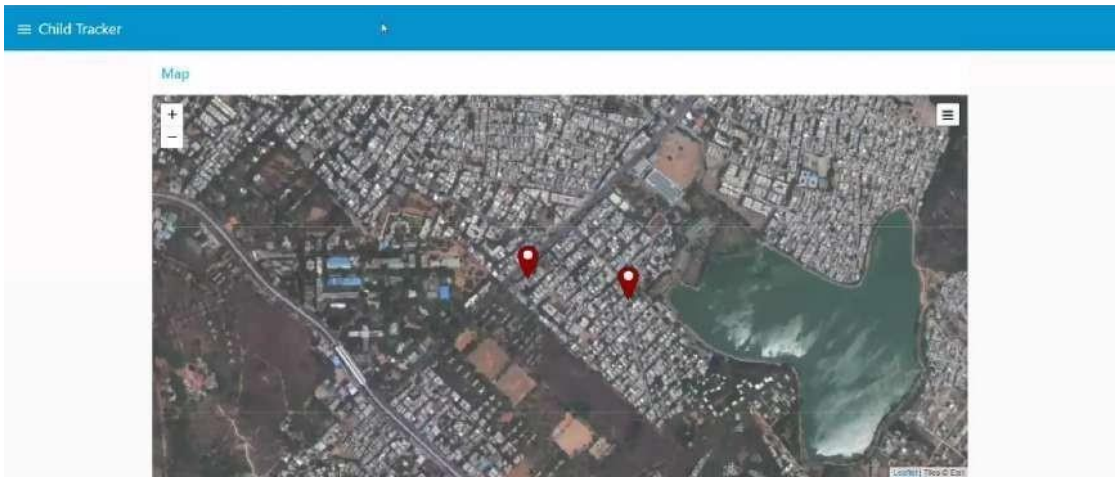
4. Create the geofence



5. Python script send requests to IBM Cloud



6. After running the script, the web UI shows “Person is not in the particular area”



Conclusion :

Developed the web application using Node-RED Successfully