Create And Configure IBM Cloud Services

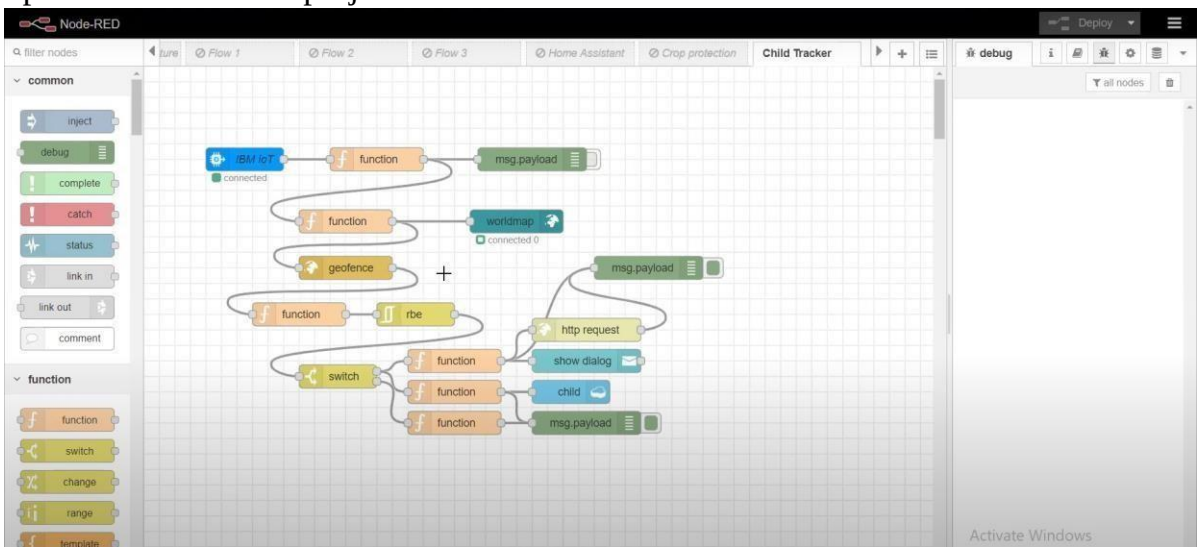
Develop The Web Application Using Node-RED

TEAM ID	PNT2022TMID18932
PROJECT NAME	IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION
MAXIMUM MARKS	4 MARKS

Aim:

Develop the web application using Node-RED Steps **Followed:**

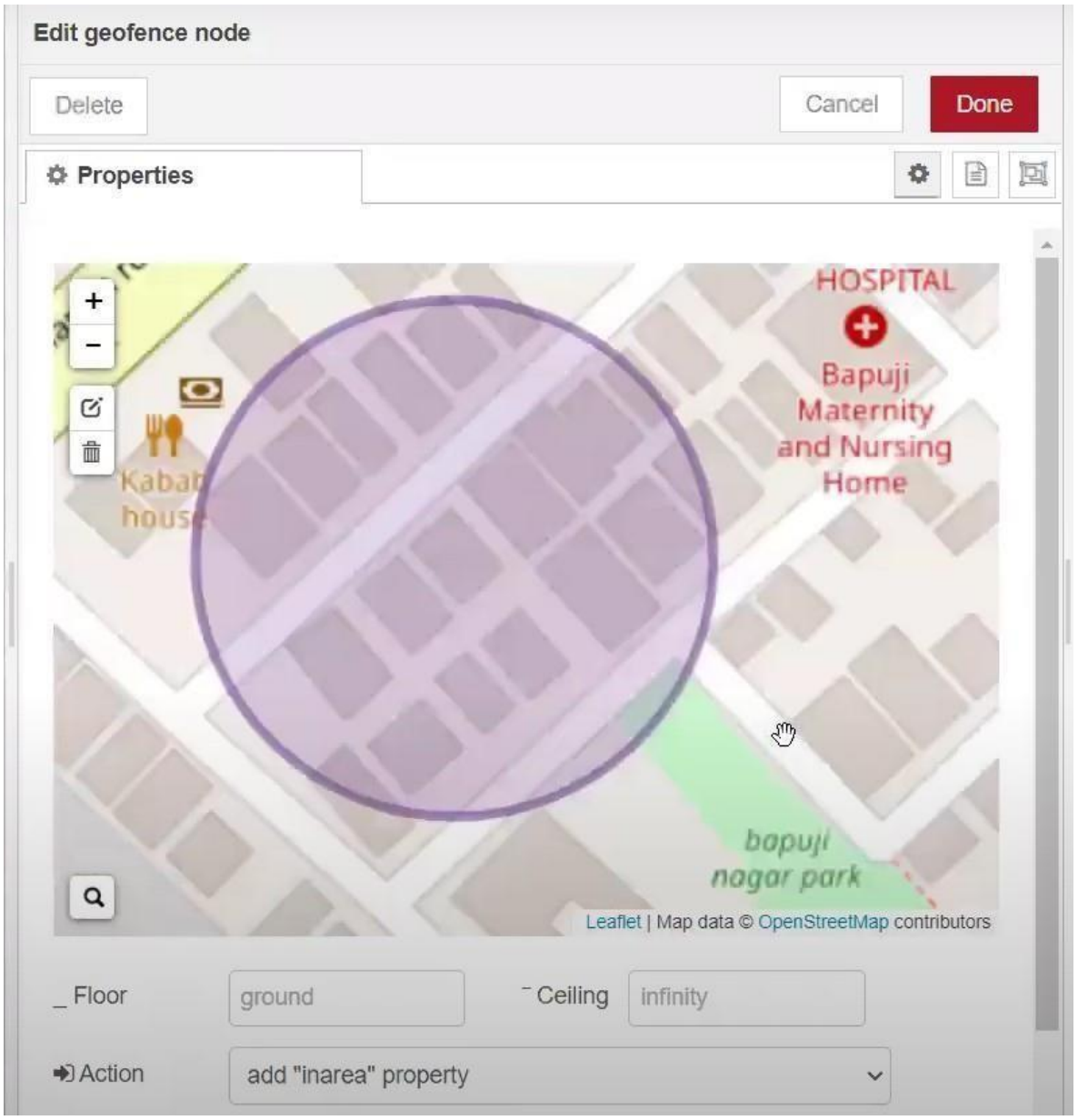
- Opened a Node-RED project



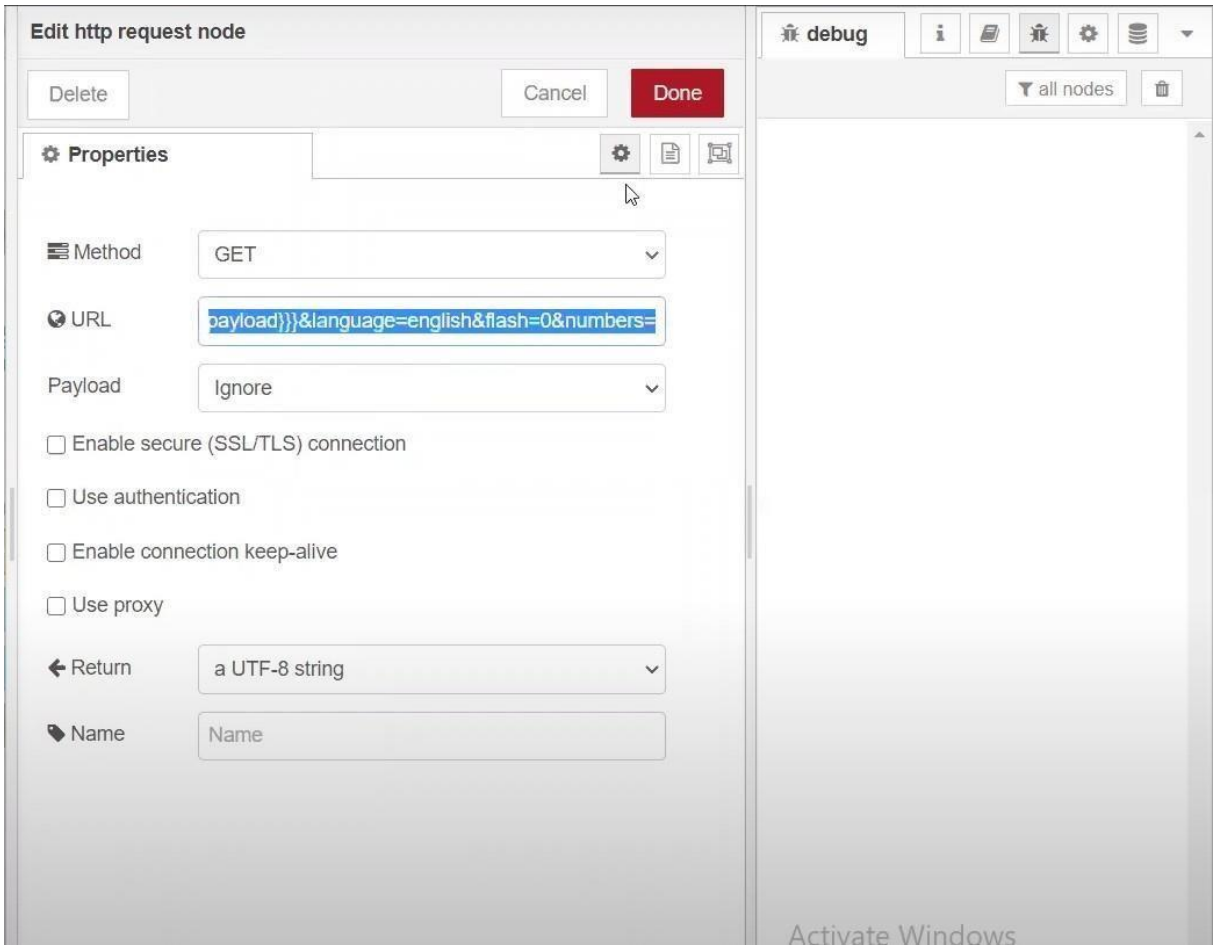
- Added code to get child location in python

```
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()
```

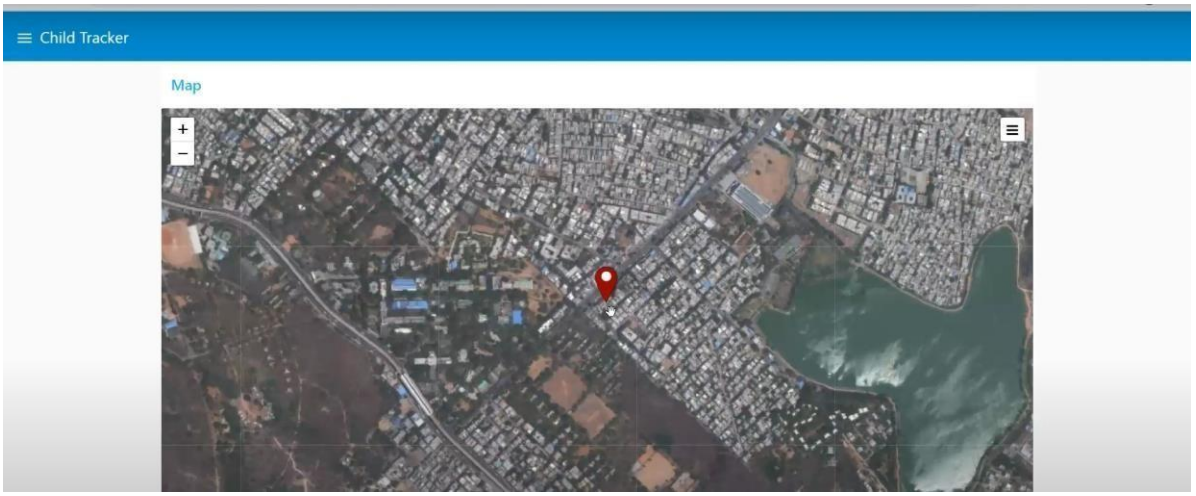
Created the GeoFence



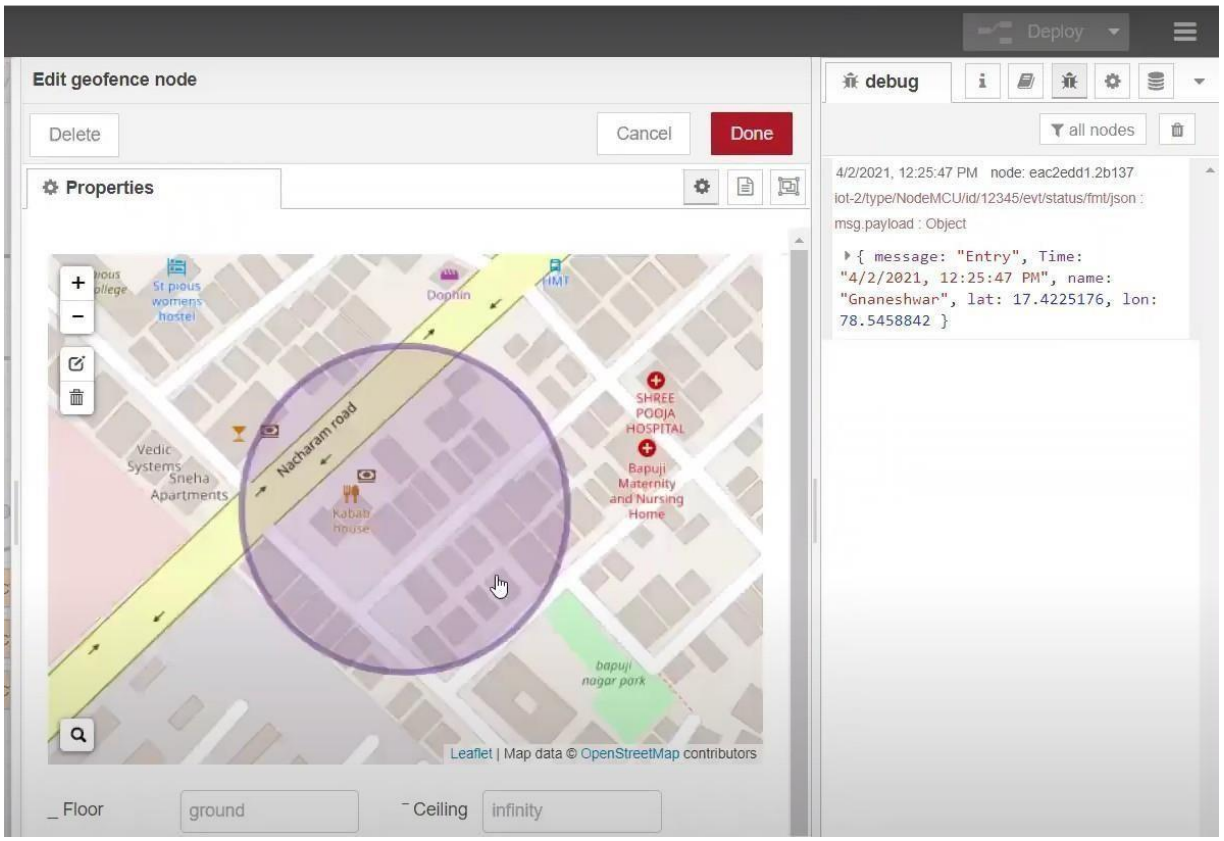
Editing the HTTP Request URL

- 

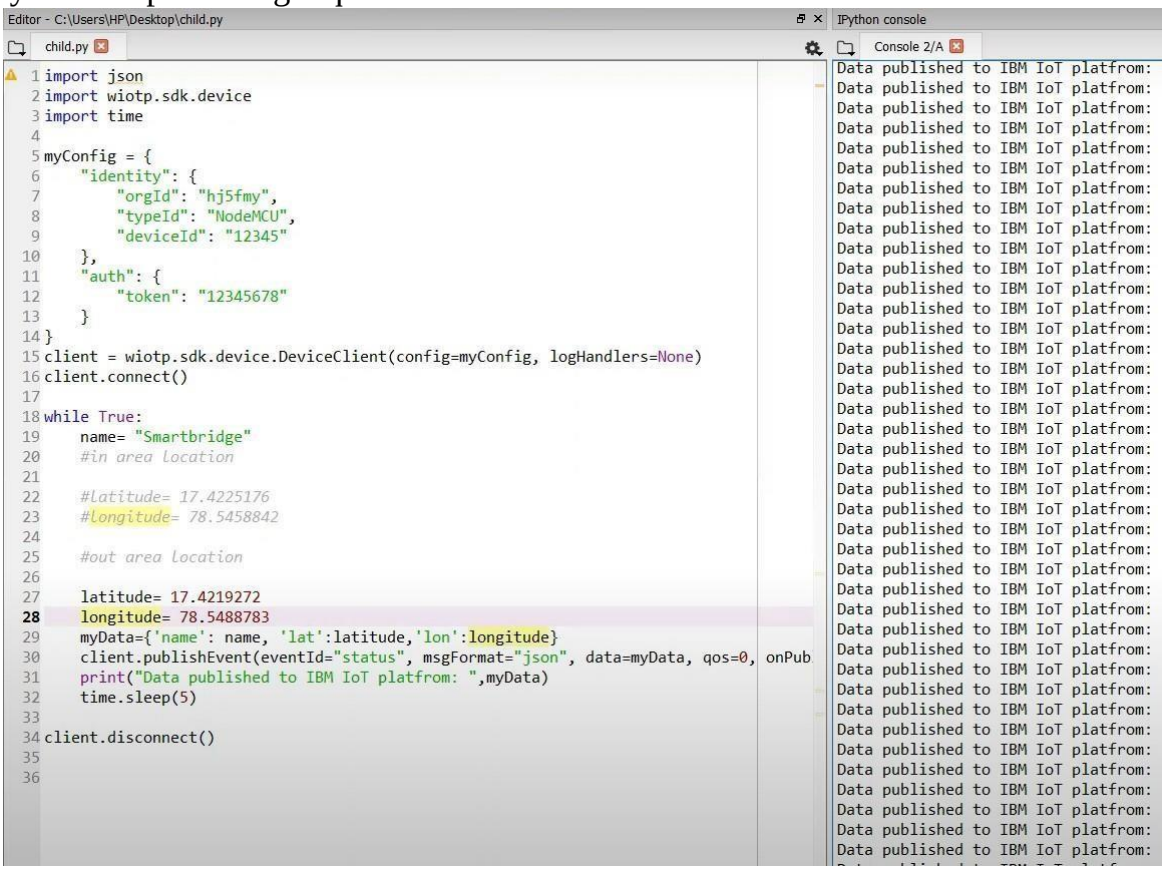
- Located the child



Created the geofence node

- 

- Python script sending requests to IBM Cloud



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

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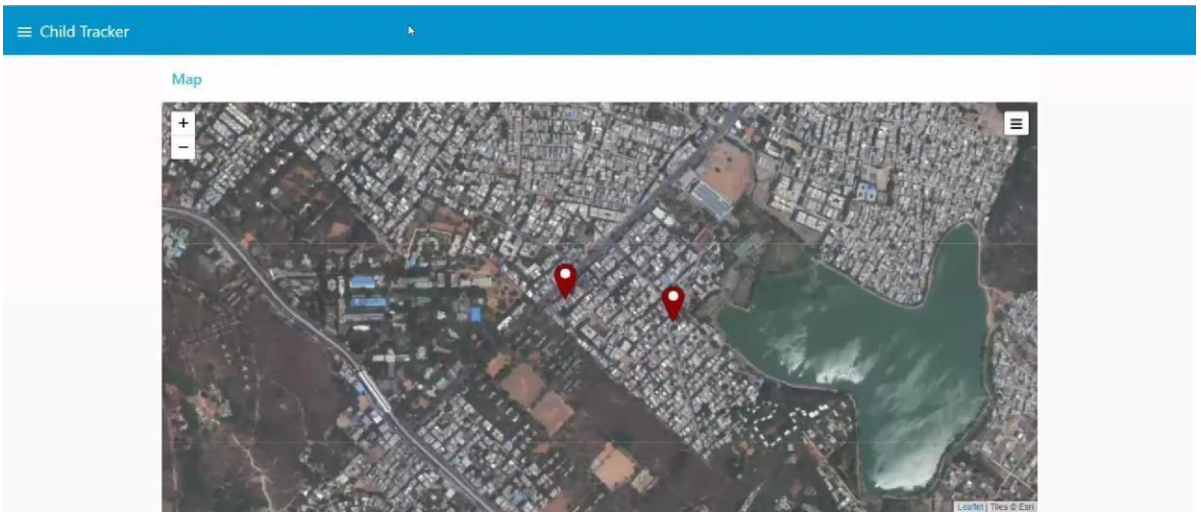

Result:

Successfully developed the web application using Node-RED