Develop The Web Application Using Node-RED

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1. To Develop the web application using Node-RED

Steps :
1. Open a Node-RED project
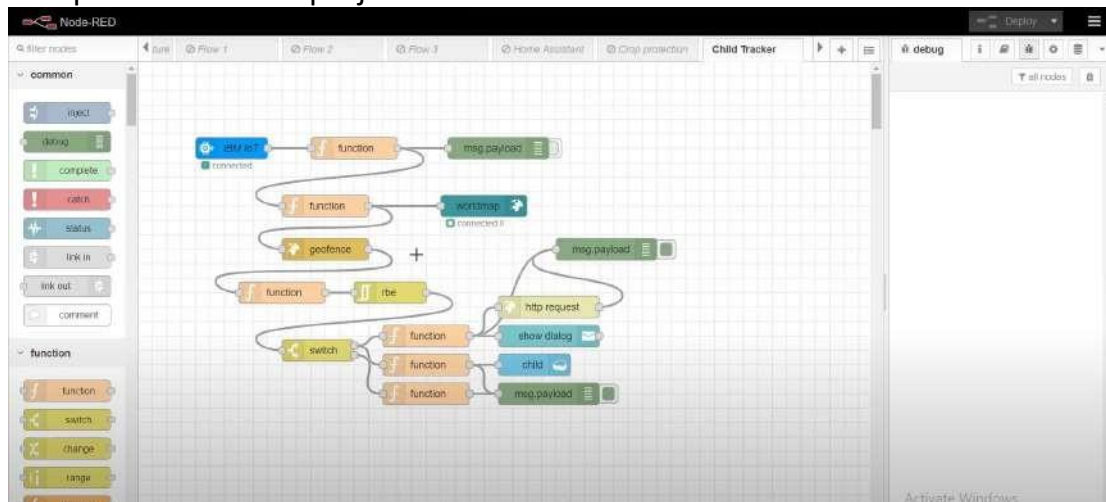
2. Add code to get child location in python

```
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. Create the GeoFence
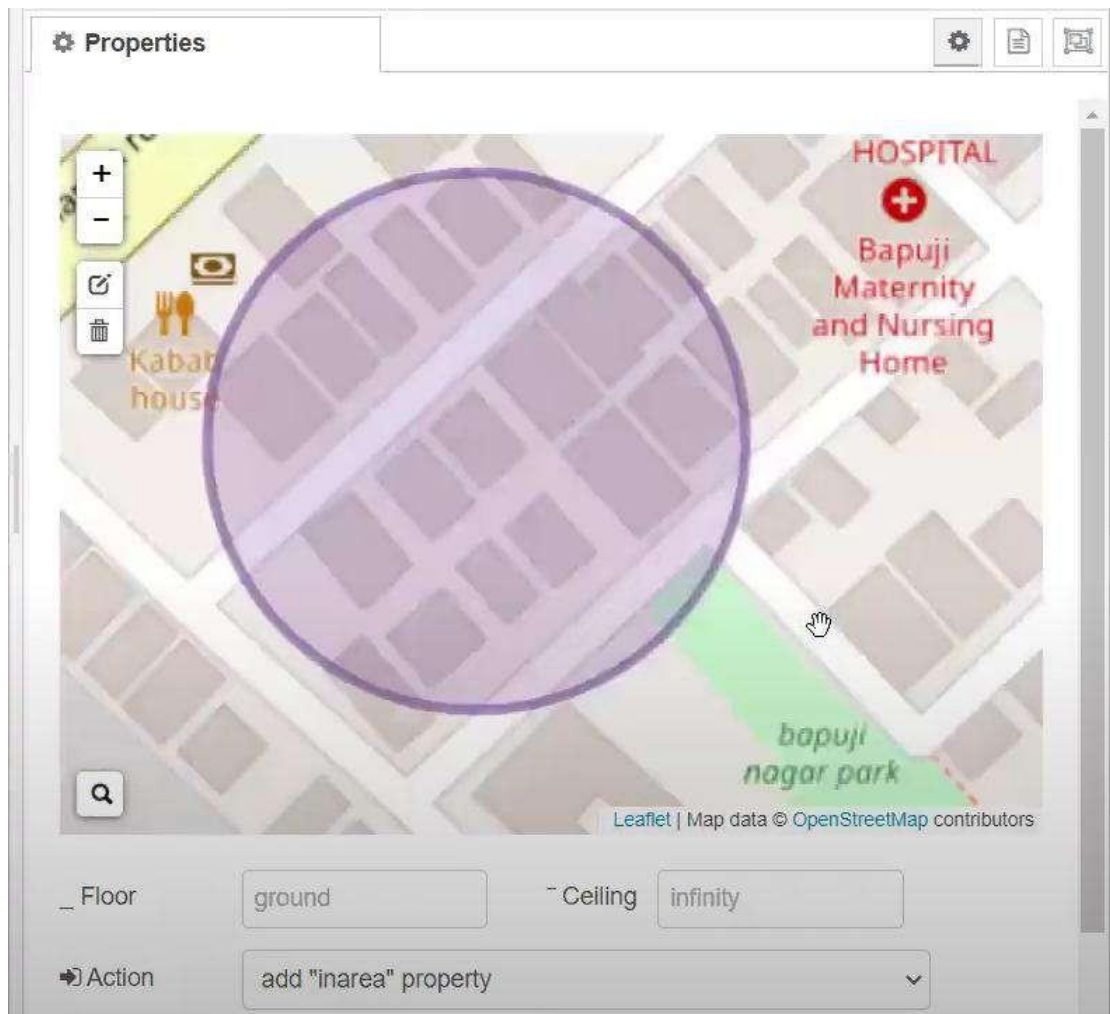
4. Edit the HTTP Request URL

5. Locate the child

6. Create the geofence node

7. Python script send requests to IBM Cloud

```python
1  import json
2  import wiotp.sdk.device
3  import time
4
5  myConfig = {
6      "identity": {
7          "orgId": "hj5fmy",
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     #latitude= 17.4225176
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.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPub
31     print("Data published to IBM IoT platfrom: ",myData)
32     time.sleep(5)
33
34 client.disconnect()
35
36
```
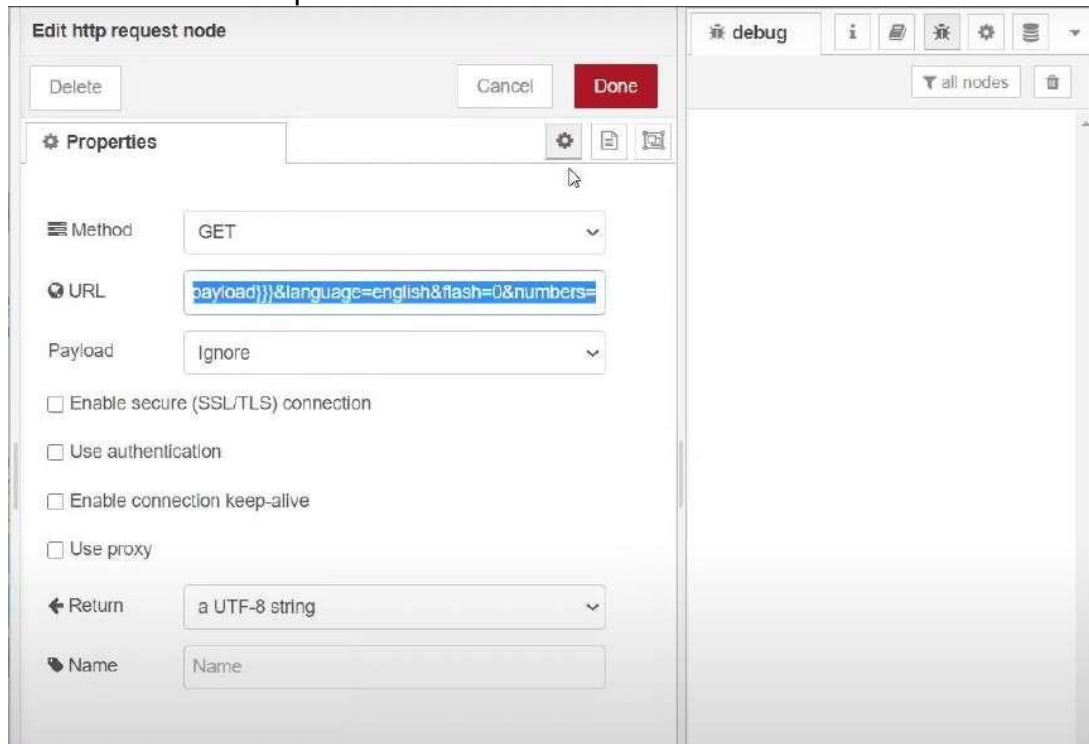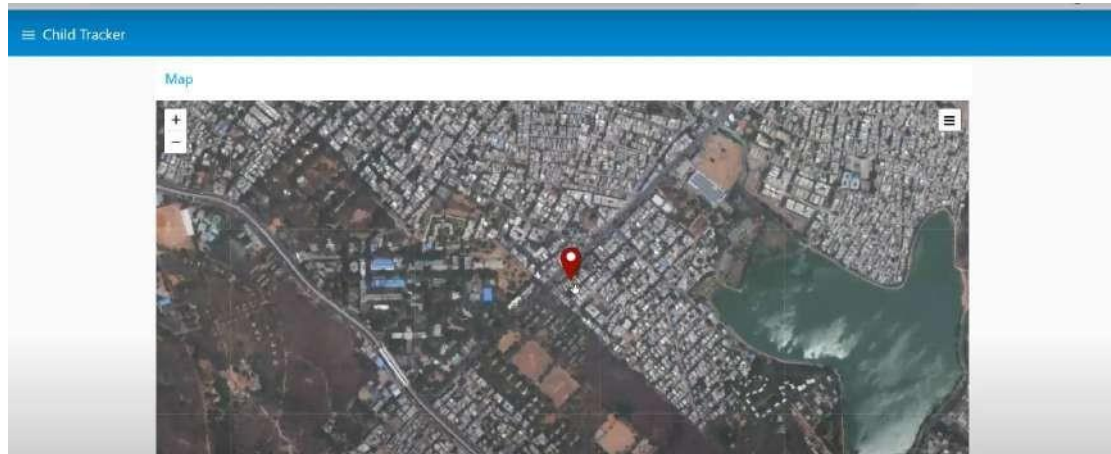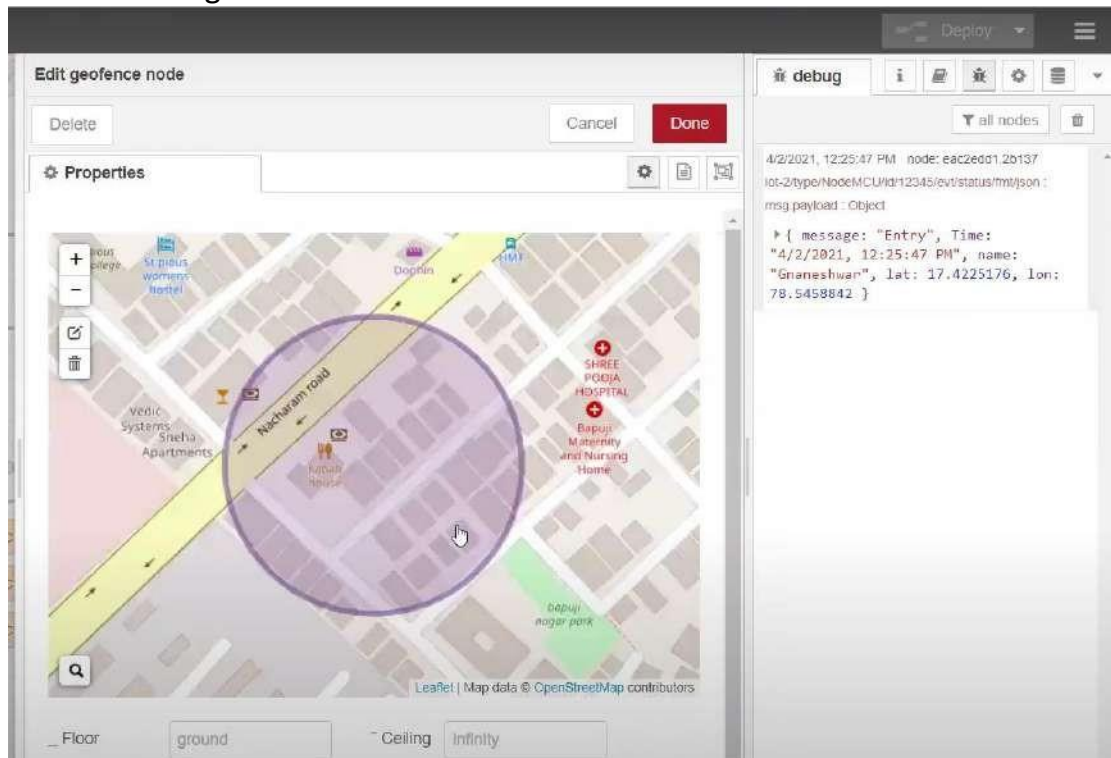
```
Data published to IBM IoT platfrom:
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```

8. After running the script, the web UI shows "Person is not in the particular area"

Conclusion:
Developed the web application using Node-RED Successfully