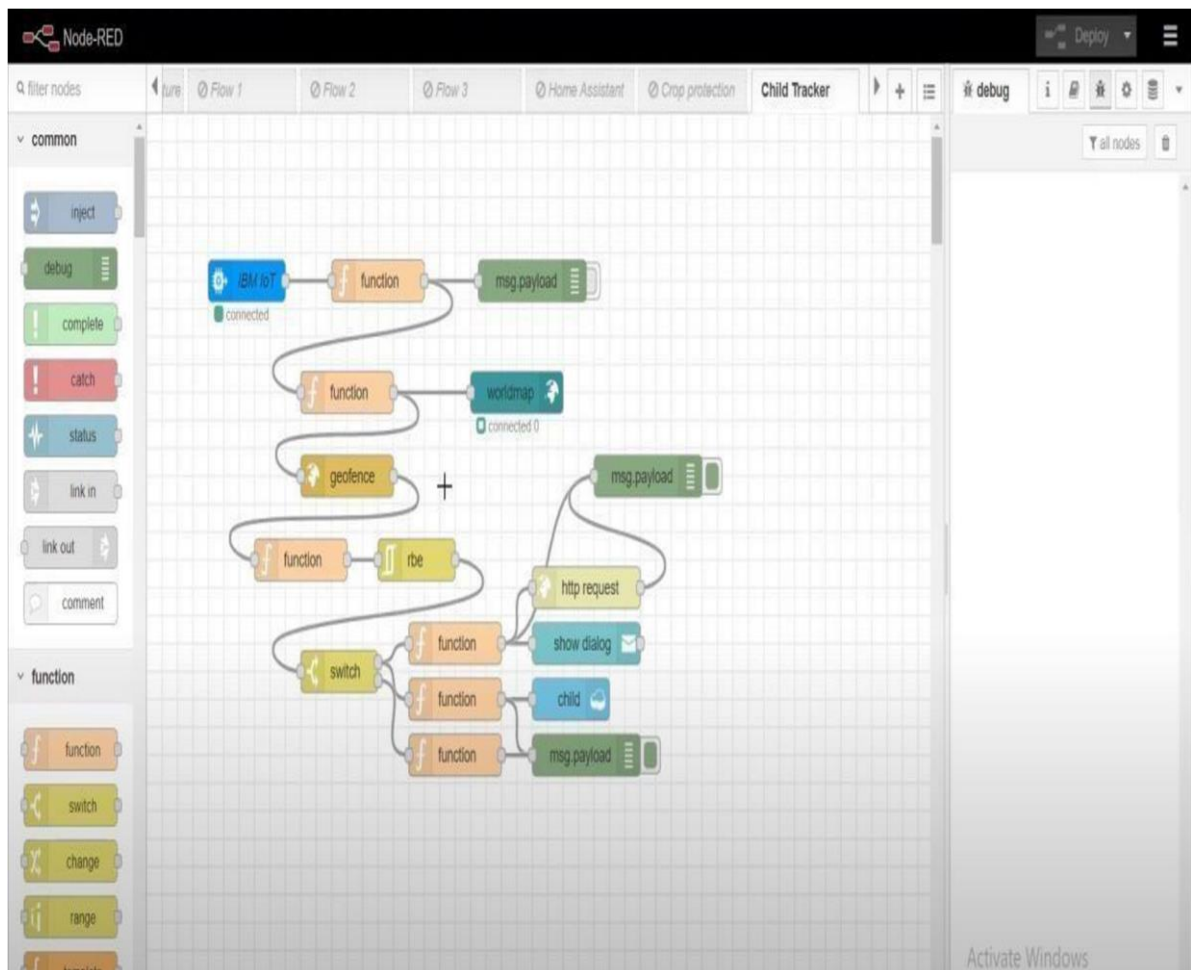# INDUSTRY – SPECIFIC INTELLIGENT FIRE MANAGEMENT SYSTEM

DEVELOP A WEB APPLICATION USING NODE-RED SERVICE

DATE	7 November 2022
Team Id	PNT2022TMID08358
Project Name	Industry-Specific Intelligent Fire Management System

- Node-RED project:

- Adding code to get child location in python

-

```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 Geo Fence

Edit geofence node

Delete   Cancel   Done
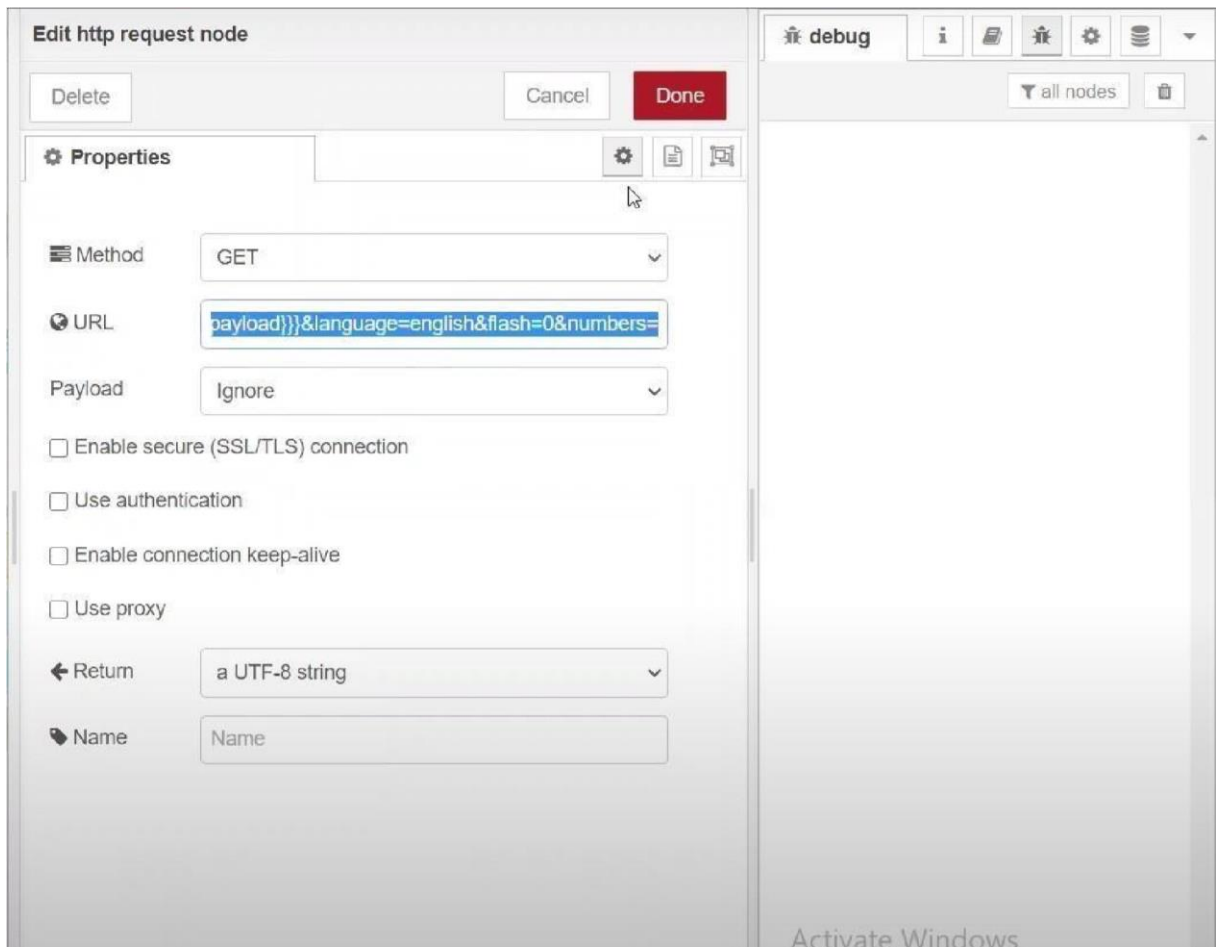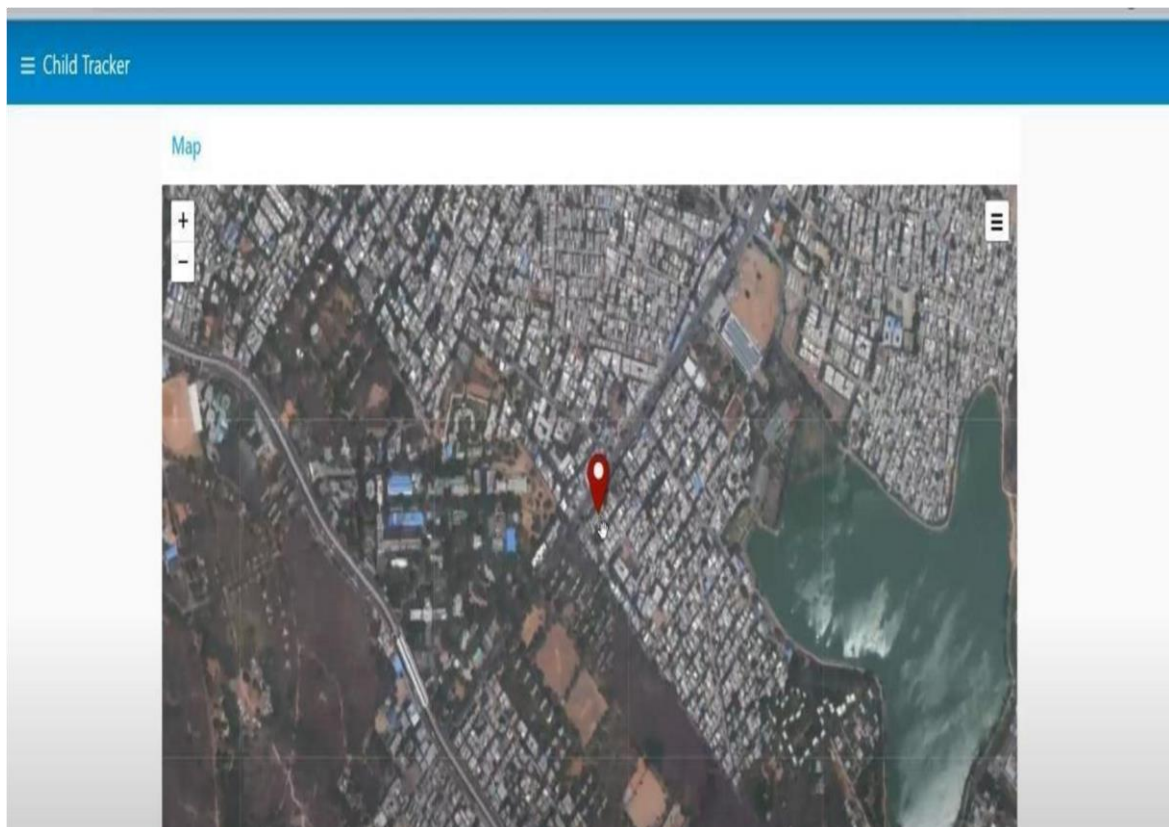
⚙ **Properties**   ⚙ 📄 ▣

HOSPITAL
➕
Bapuji
Maternity
and Nursing
Home

Kabab
house

bapuji
nagar park

Leaflet | Map data © OpenStreetMap contributors

_ Floor   ground   ⁻ Ceiling   infinity

➡ Action   add "inarea" property   ⌄

-

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"

-
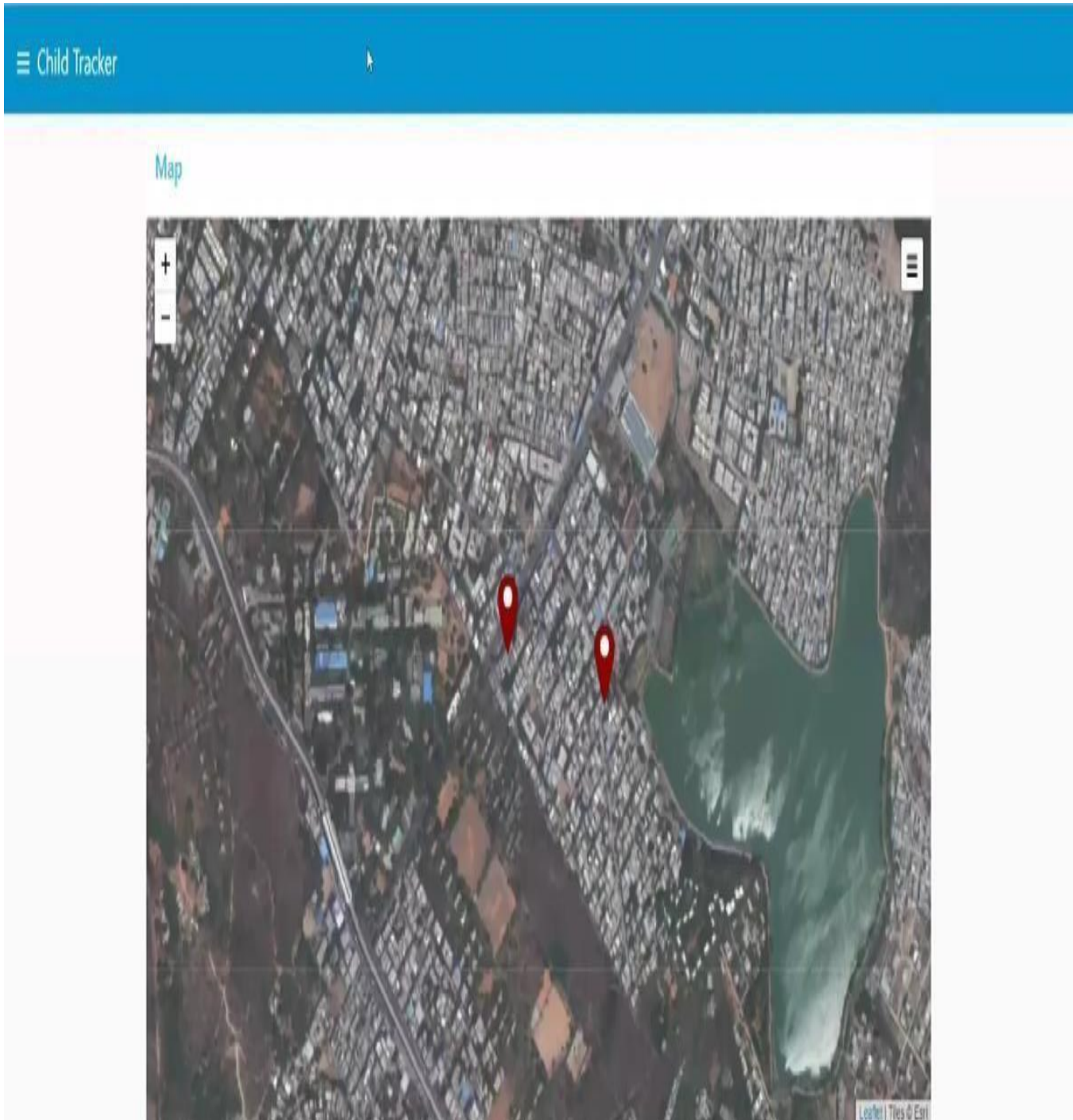
Result: Successfully developed a web application using Node-RED