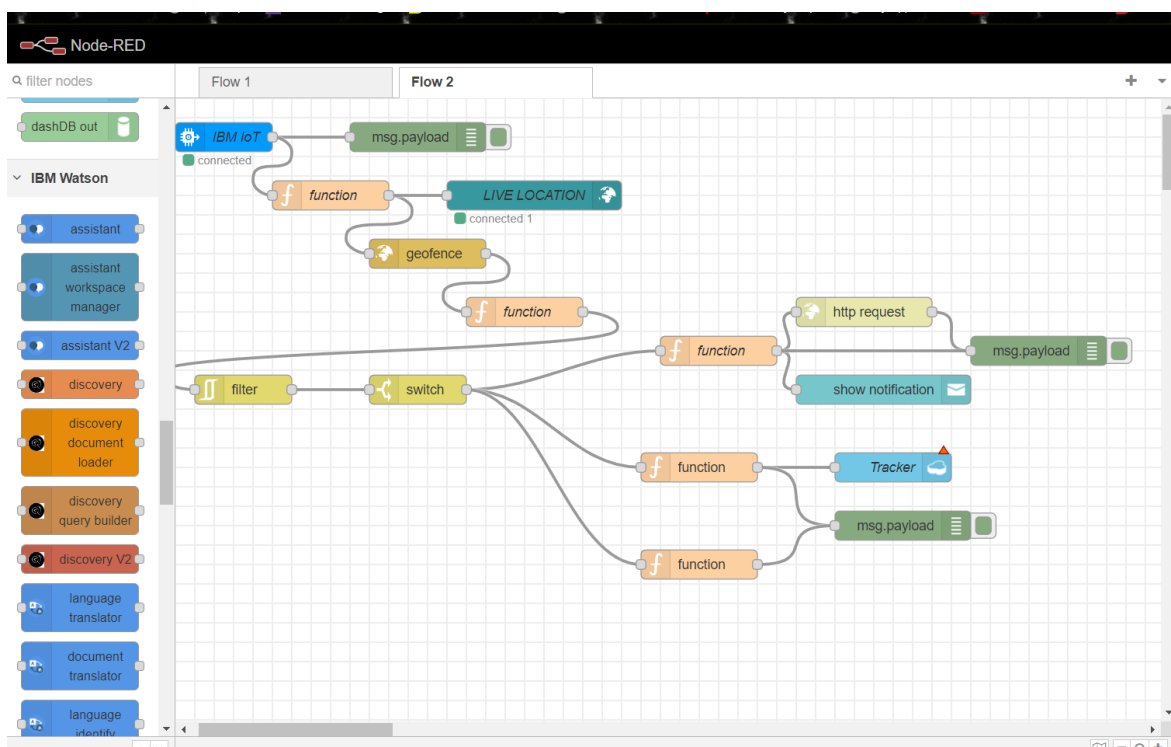


Develop the app using Node Red

Date	18 November 2022
Team ID	PNT2022TMID04717
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification

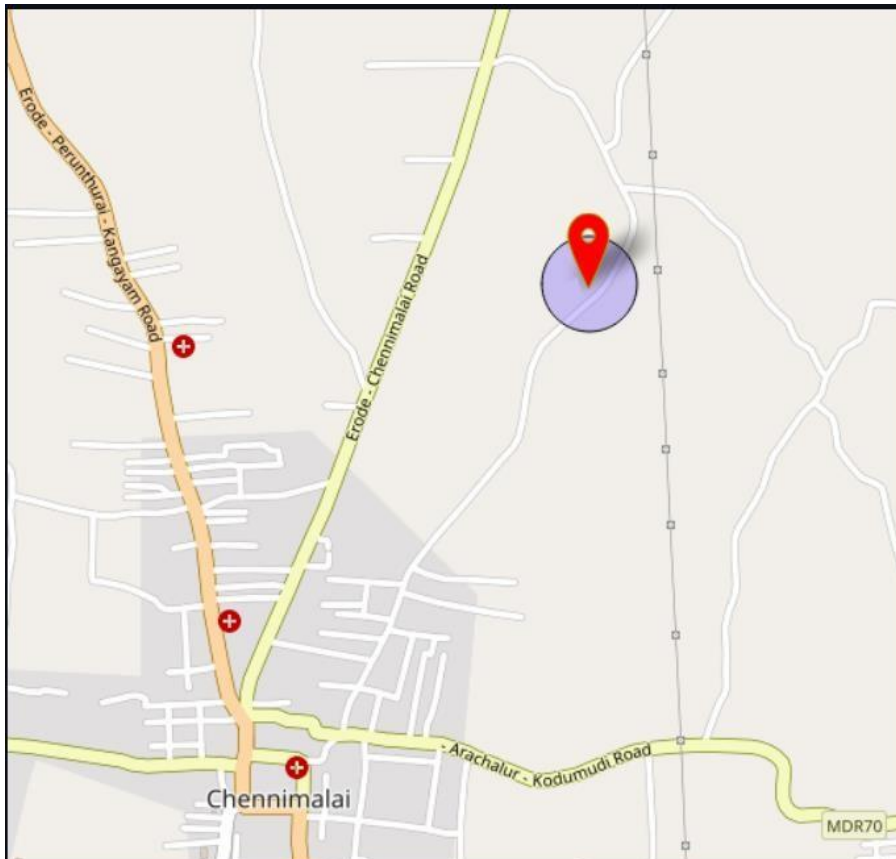
1. Node Red flow



2. Python Code

```
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932
Type "help", "copyright", "credits" or "license()" for more information.
>>> import time
... import random
... #import ibmiotf.application
... import ibmiotf.device
... import sys
... config= {"org": " 619i71",
...          "type": " IoT ",
...          "id": "12344321",
...          "auth-method": "use-token-auth",
...          "auth-token": "12345678"}
... client= ibmiotf.device.Client (config)
... client.connect()
... def myCommandCallback (cmd):
...     a=cmd.data
...     if len(a["command"])==0:
...         pass
...     else:
...         print(a["command"])
...     def pub (data):
...         client.publishEvent (event="status", msgFormat="json",data=data, qos=0)
...         print("Published data Successfully: %s",data)
...     while True:
...         name= "Childtracker"
...         #in area
...         #latitude= 9.8796
...         #longitude= 78.0810
...         #out area latitude= 9.95143 longitude= 78.1158
...         data={'name': name, 'lat':latitude,'lon':longitude}
...         pub(data)
...         client.commandCallback = myCommandCallback
...         time.sleep(2)
...         client.disconnect()
```

3. Created Geo fence



4. Edit HTTP request node URL

Edit http request node

Delete Cancel Done

Properties

Method GET

URL %20Web%20Application%20Using%20Node-RED

Payload Ignore

☐ Enable secure (SSL/TLS) connection

☐ Use authentication

☐ Enable connection keep-alive

☐ Use proxy

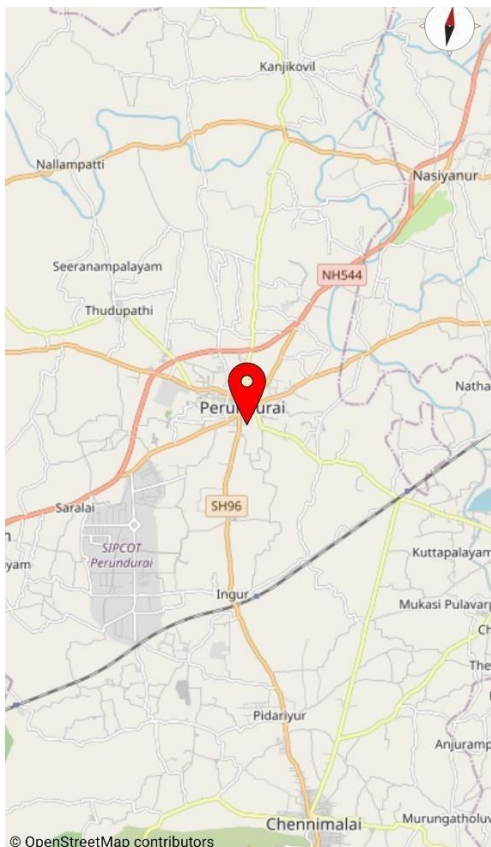
☐ Only send non-2xx responses to Catch node

Return a UTF-8 string

Name Name

☐ Enabled

5. Locate the child



6. Python Script sending request to cloud

[illegible]

7. After verifying, popup will indicate whether child is in geofence or not.

