

DEVELOP THE WEB APPLICATION USING NODE-RED

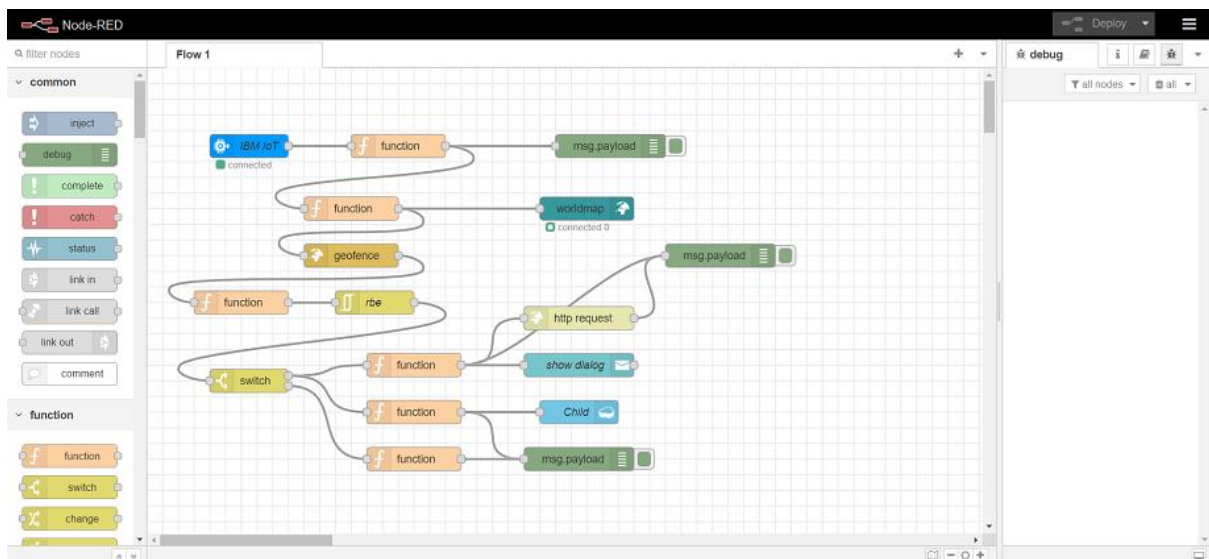
“IOT Based Safety Gadget for Child Safety Monitoring and Notification”

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Aim: Develop the web application using Node-RED

STEPS FOLLOWED:

- Opened a Node-RED project



- Added code to get child location in python.

```
ch44.py - C:\Users\Anu\AppData\Local\Programs\Python\Python37\ch44.py (3.7.0)
File Edit Format Run Options Window Help
import json
import wiotp.sdk.device
import time
myConfig = {
    "identity": {
        "orgid": "wiotp",
        "typeid": "TestDeviceType",
        "deviceId": "12345"
    },
    "auth": {
        "token": "pntkvvN-q488vltayl"
    }
}
client = wiotp.sdk.device.DeviceClient(config=myConfig, loghandlers=None)
client.connect()

while True:
    name = "SmartBridge"
    #in area location
    latitude = 17.4225176
    longitude = 78.5456842

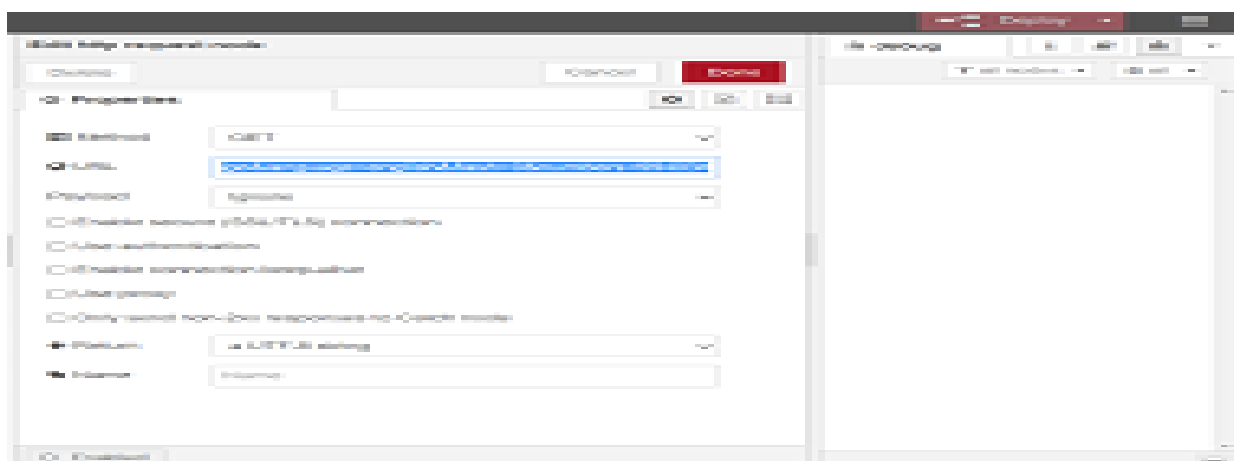
    #out area location
    #latitude 17.4219272
    #longitude 78.5480763
    myData = {'name': name, 'lat': latitude, 'lon': longitude}
    client.publishEvent(eventId="status", msgformat="json", data=myData, qos=0, onPublish=None)
    print("Data published to the IoT platform", myData)
    time.sleep(15)

client.disconnect()
```

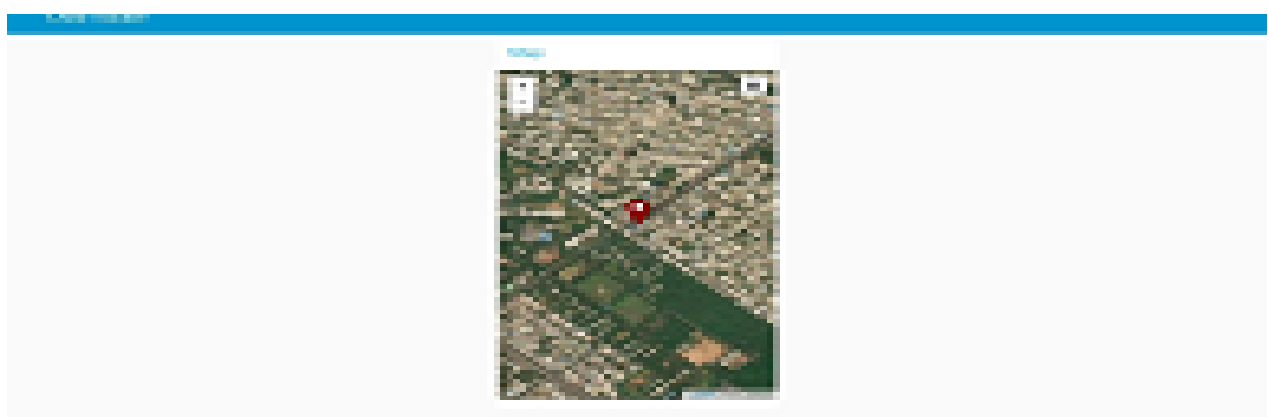
- Created the Geo-Fence.



- Editing the HTTP Request URL.



- Located the child.



- Created the Geo-fence 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 the web application using Node-RED.