

GEOFENCE

Team ID	PNT2022TMID47693
Project Name	Project - IoT Based Safety Gadget for Child Safety Monitoring and Notification
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Goal: Creating node-red using geofence.

Feature:

- Location can be viewed in the Web Application
- A parent can create a geofence in the web application
- The web application will check if the child is inside or outside the geofence
- Notifies the parents if the child goes out of the geofence

Steps followed:

1. click on your Node-RED flow editor where you will be redirected to the Node-RED flow editor.

2. To install IBM nodes in Node-red flow editor click on manage palette in the menu option which is on the top-right of the screen.

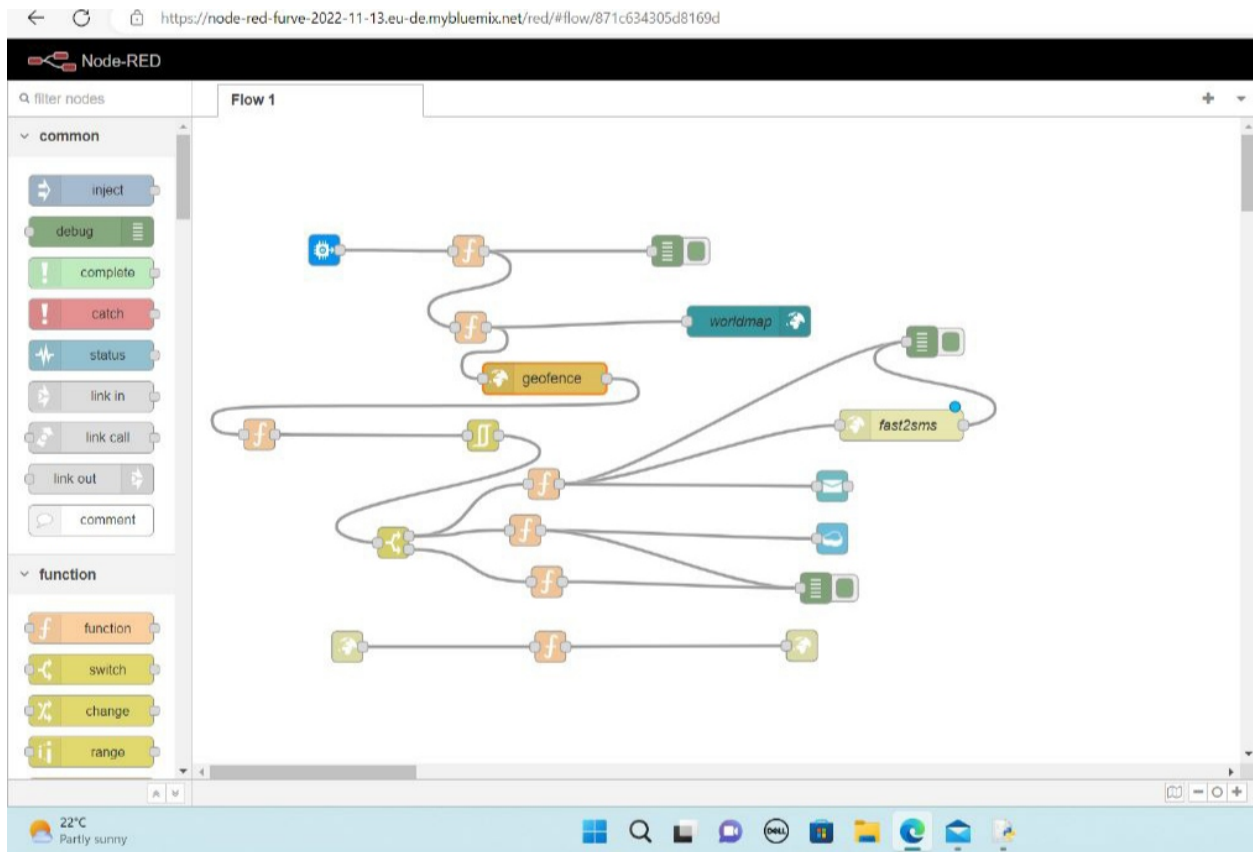
[node-red-dashboard](#)

[node-red-node-geofence](#)

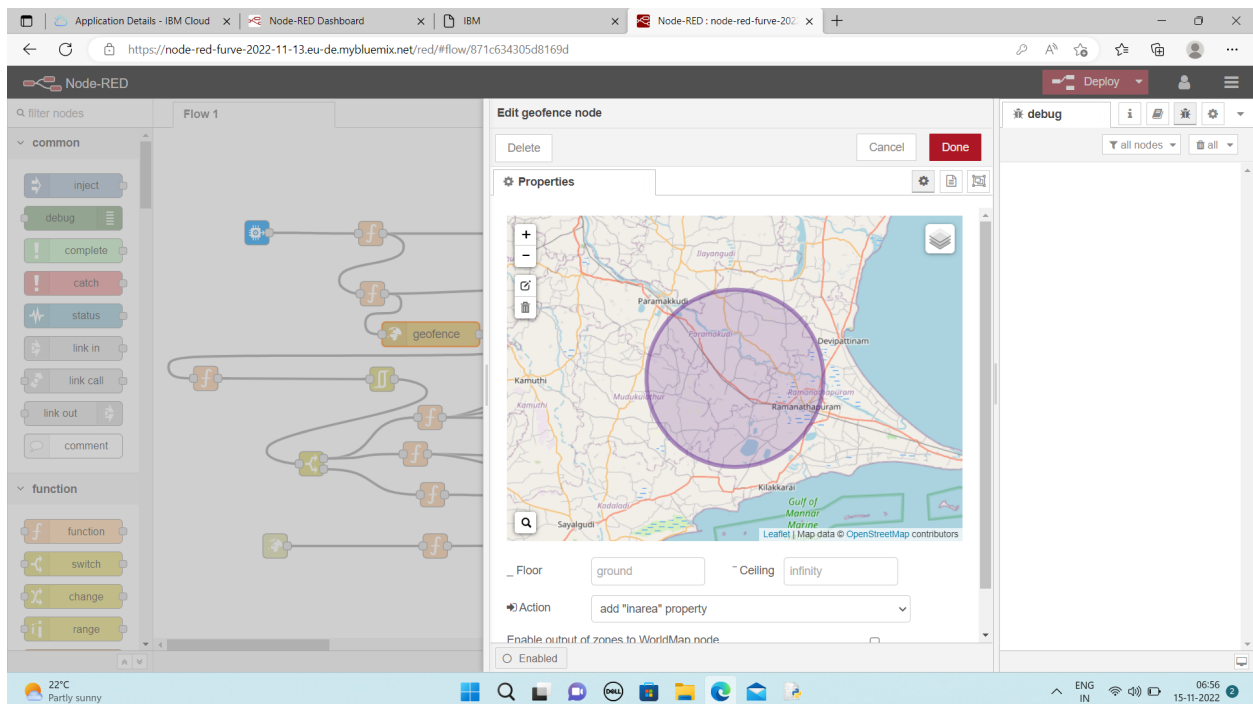
[node-red-contrib-web-worldmap](#)

3. Connect the nodes below

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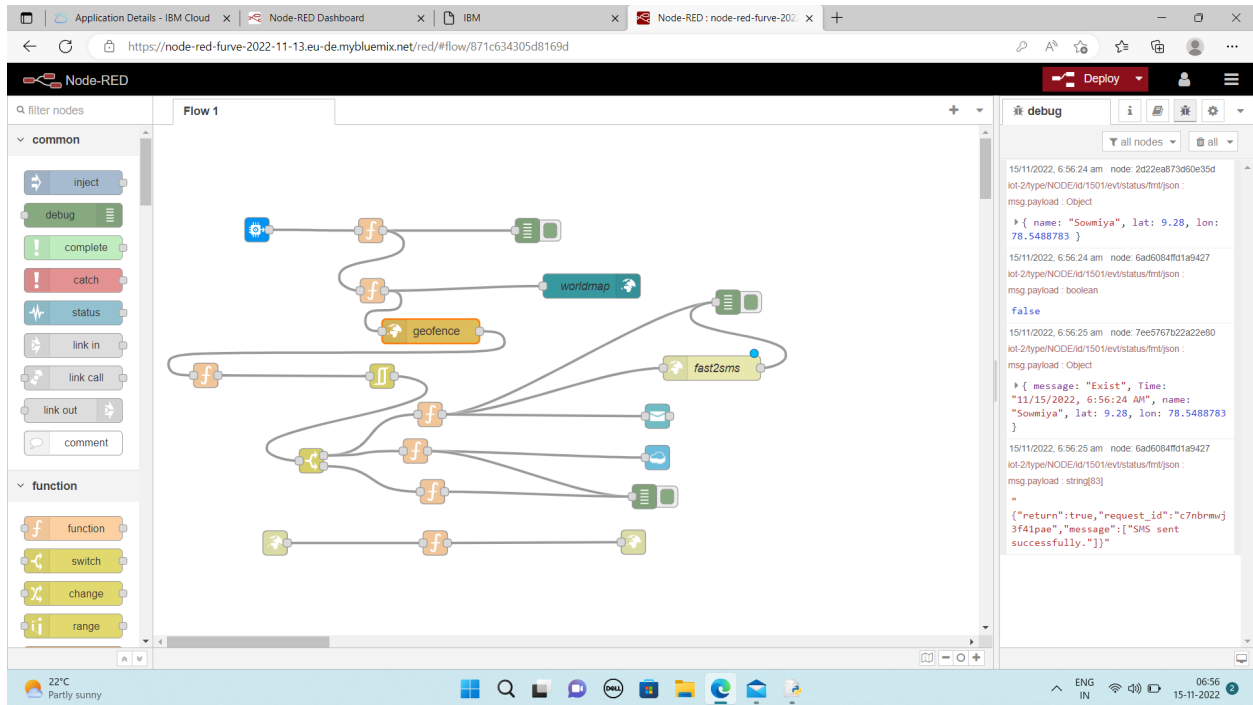
4. Create the geo-fence



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5. Send the notification if the child goes out of the geofence using fast2sms services(http package)

6. Connect the node and deploy it

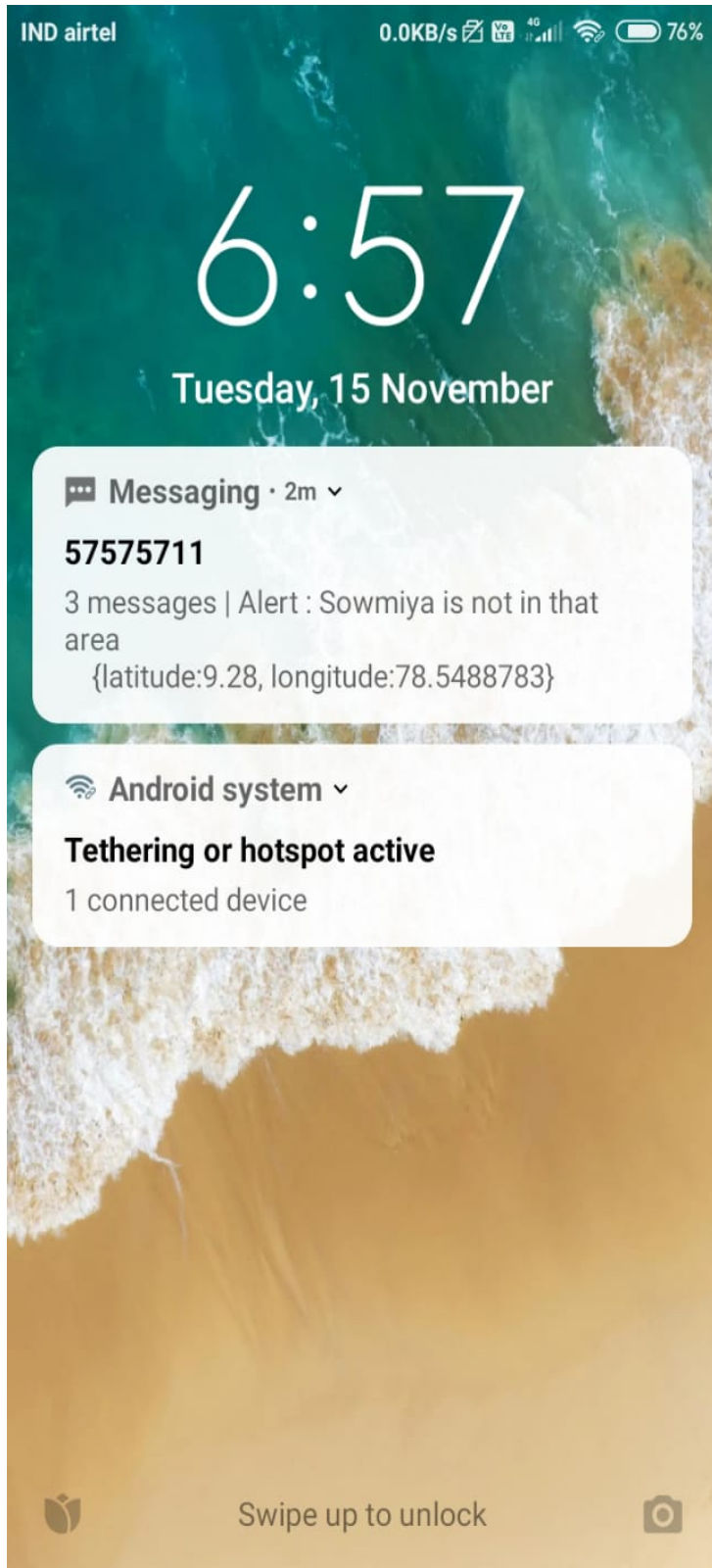


Here we use the python code to publish the location data instead of hardware device

7. In that location is out of geofence, it is send alert sms to user

The SMS is shown below:

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Alert: Sowmiya is not in that area
{latitude:9.28,longitude:78.5488783}

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8. Node-red web UI Dashboard:

