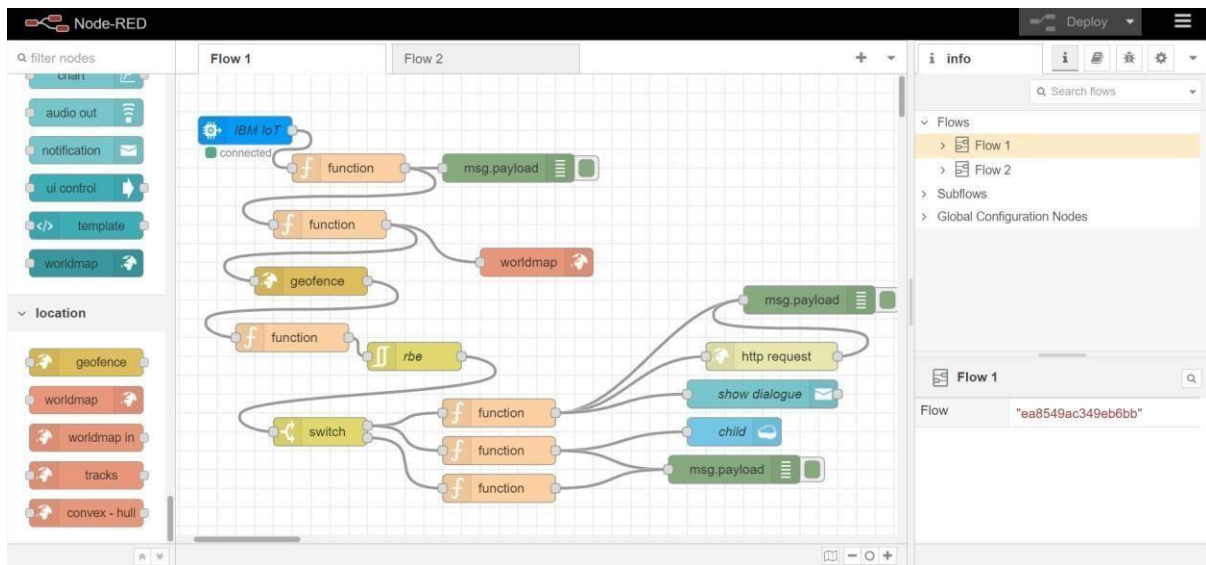


SPRINT 4

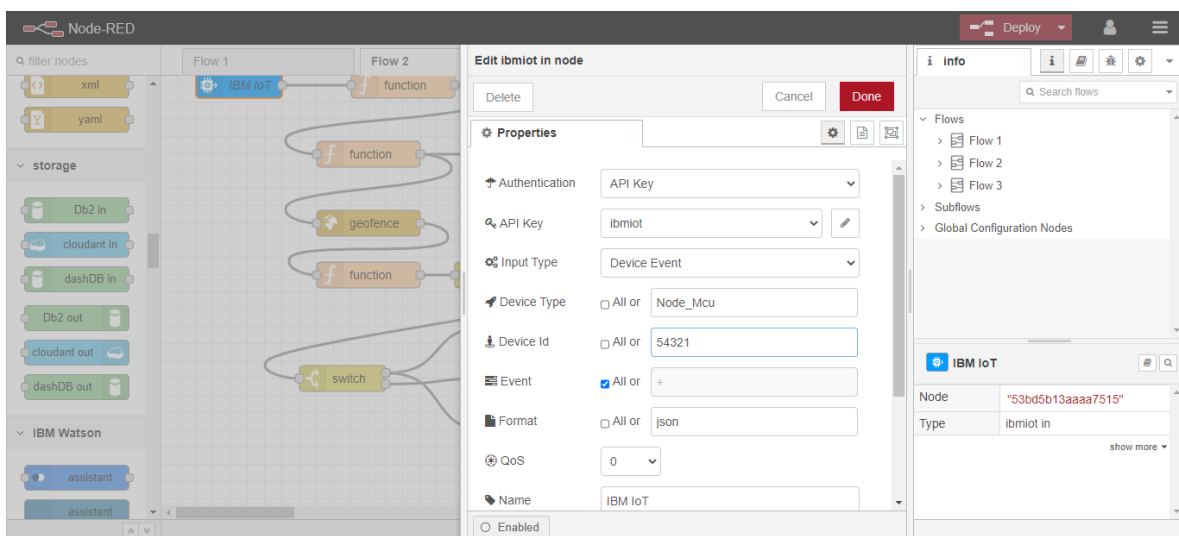
Date	17 November 2022
Team ID	PNT2022TMID32019
Project Name	IoT Based Safety Gadget for ChildSafety Monitoring and Notification

NODE – RED

Connections



Codes in Node's



Node-RED interface showing the "Edit function node" dialog. The node is named "function" and is currently disabled. The code in the "On Message" tab is:

```
1 var name = msg.payload.name
2 var lat = msg.payload.lat
3 var lon = msg.payload.lon
4 global.set('latitude', lat)
5 global.set('longitude', lon)
6 global.set('name', name)
7 return msg;
```

The right sidebar shows the "info" panel with a search bar and a list of flows (Flow 1, Flow 2) and subflows. Below the list, the node details are shown:

- Node: "76ec77cc4270c2c7"
- Type: function

Node-RED interface showing the "Edit function node" dialog. The node is named "function" and is currently disabled. The code in the "On Message" tab is:

```
1 msg.payload={
2   'name':global.get('name'),
3   'lat':global.get('latitude'),
4   'lon': global.get('longitude')
5 }
6 return msg;
```

The right sidebar shows the "info" panel with a search bar and a list of flows (Flow 1, Flow 2) and subflows. Below the list, the node details are shown:

- Node: "77b707bf262aa6f4"
- Type: function

Node-RED interface showing the "Edit geofence node" dialog. The node is named "geofence" and is currently disabled. The map shows a geofence area (purple circle) centered on a location. The right sidebar shows the "info" panel with a search bar and a list of flows (Flow 1, Flow 2, Flow 3) and subflows. Below the list, the node details are shown:

- Node: "29d33503e67fd5f0"
- Type: geofence

Node-RED interface showing the "Edit worldmap node" configuration panel. The panel includes fields for Start (Latitude: 17.4219272, Longitude: 78.5400783, Zoom: 16), Map list (1 selected), Base map (ESRI Satellite), Overlays (5 selected), Cluster when zoom level is less than (0 (0, off - 19)), Max age (Remove markers after 600 seconds), User menu (Show), Layer menu (Hide), Lock map (False), Lock zoom (False), and an Enabled checkbox.

The right sidebar shows the "info" panel with a search bar and a list of flows (Flow 1, Flow 2) and subflows. The "worldmap" node is highlighted, showing its ID (*5ed11e914b5614ea*) and type (worldmap).

Node-RED interface showing the "Edit function node" configuration panel. The panel includes a Name field, a Setup tab, and a code editor with the following code:

```
1 msg.payload=msg.location.inarea
2 return msg;
```

The right sidebar shows the "info" panel with a search bar and a list of flows (Flow 1, Flow 2) and subflows. The "function" node is highlighted, showing its ID (*3585a4ac8098085f*) and type (function).

Node-RED interface showing the "Edit switch node" configuration panel. The panel includes a Name field, a Property dropdown (msg.payload), and two conditions: "is false" (→ 1) and "is true" (→ 2). The "checking all rules" checkbox is checked, and the "recreate message sequences" checkbox is unchecked. The node is enabled.

The right sidebar shows the "info" panel with a search bar and a list of flows (Flow 1, Flow 2) and subflows. The "switch" node is highlighted, showing its ID (*16b63596382b4cc6*) and type (switch).

Node-RED interface showing the Edit function node configuration. The node is named "function" and is configured to run on the "On Message" trigger. The code defines a function that calculates a timestamp and returns a message object.

```
1 var d= new Date();
2 var utc = d.getTime() + (d.getTimezoneOffset() * 60000);
3 var offset = 5.5; // This is the offset for UTC+3, in your case (UTC+1
4 newDate = new Date(utc + (3600000*offset));
5- msg.payload = {
6   "message": "Entry",
7   "Time": newDate.toLocaleString(),
8   "name": global.get('name'),
9   "lat": global.get('latitude'),
10  "lon": global.get('longitude')
11- };
12 return msg;
```

The right sidebar shows the "info" panel with the node ID "322663c3205cc798" and the type "function".

Node-RED interface showing the Edit function node configuration. The node is named "function" and is configured to run on the "On Message" trigger. The code defines a function that calculates a timestamp and returns a message object.

```
1 var d= new Date();
2 var utc = d.getTime() + (d.getTimezoneOffset() * 60000);
3 var offset = 5.5; // This is the offset for UTC+3, in your case (UTC+1
4 newDate = new Date(utc + (3600000*offset));
5- msg.payload = {
6   "message": "Entry",
7   "Time": newDate.toLocaleString(),
8   "name": global.get('name'),
9   "lat": global.get('latitude'),
10  "lon": global.get('longitude')
11- };
12 return msg;
```

The right sidebar shows the "info" panel with the node ID "dfef78abe1ae2fd4" and the type "function".

Node-RED interface showing the Edit function node configuration. The node is named "function" and is configured to run on the "On Message" trigger. The code defines a function that calculates a timestamp and returns a message object.

```
1 var d= new Date();
2 var utc = d.getTime() + (d.getTimezoneOffset() * 60000);
3 var offset = 5.5; // This is the offset for UTC+3, in your case (UTC+1
4 newDate = new Date(utc + (3600000*offset));
5- msg.payload = {
6   "message": "Entry",
7   "Time": newDate.toLocaleString(),
8   "name": global.get('name'),
9   "lat": global.get('latitude'),
10  "lon": global.get('longitude')
11- };
12 return msg;
```

The right sidebar shows the "info" panel with the node ID "36df960d0bd4f874" and the type "function".

Node-RED

Filter nodes

Flow 1

IBM IoT

function

function

geofence

function

switch

http request

Method: GET

URL: https://www.fast2sms.com/dev/wallet?authorizati

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

Enabled

Info

Search flows

Flows

Flow 1

Flow 2

Subflows

Global Configuration Nodes

http request

Node: "a43ddb0b4716e38d"

Type: http request

Node-RED

Filter nodes

Flow 1

IBM IoT

function

function

geofence

function

switch

notification

Layout: OK / Cancel Dialog

Send to all browser sessions.

Default action label: OK

Secondary action label: (optional label for Cancel button)

Accept raw HTML/JavaScript input in msg.payload to format popup.

Class: [msg.className]

Topic: [msg.topic]

Name: show dialogue

Enabled

Info

Search flows

Flows

Flow 1

Flow 2

Subflows

Global Configuration Nodes

show dialogue

Node: "388bcb2648d1348b"

Type: ui_toast

Node-RED

Filter nodes

Flow 1

Flow 2

IBM IoT

function

function

geofence

function

switch

cloudant out

Service: nature-cloudant-1667927605347-85679

Database: database

Operation: insert

Only store msg.payload object?

Name: child

Enabled

Info

Search flows

Flows

Flow 1

Flow 2

Flow 3

Subflows

Global Configuration Nodes

child

Node: "dde02c596d61443d"

Type: cloudant out