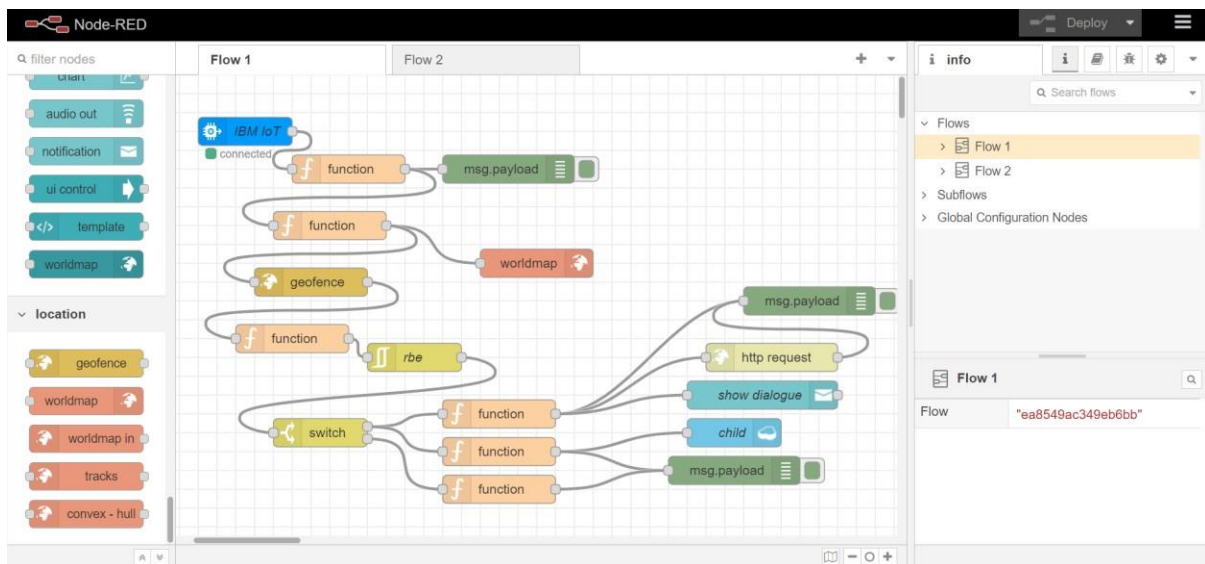


SPRINT 3

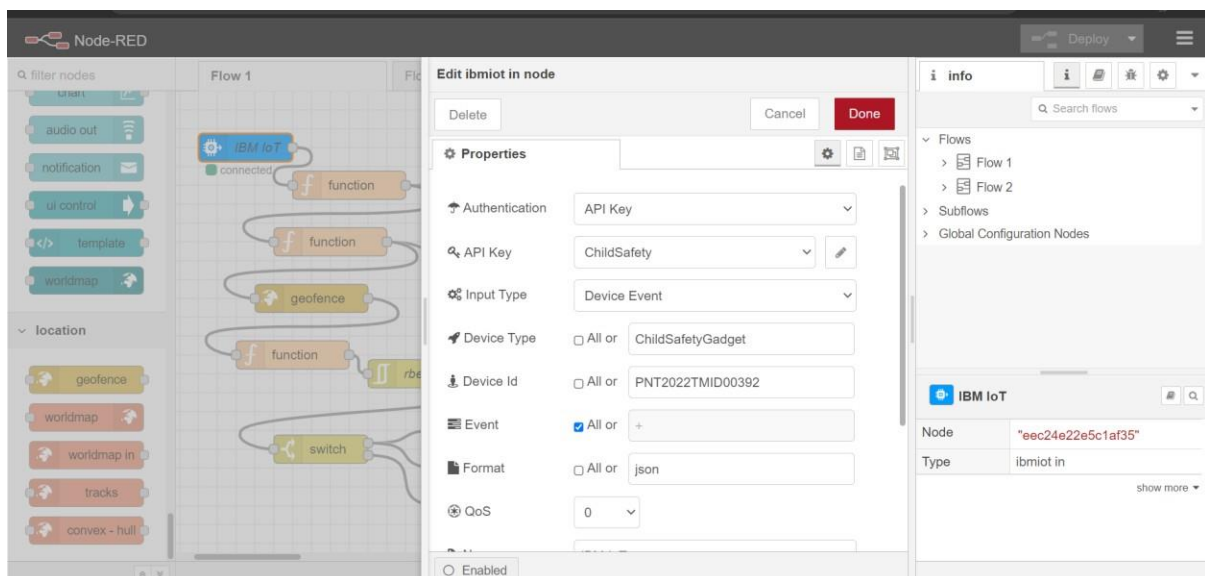
Date	09 November 2022
Team ID	PNT2022TMID40028
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification

NODE - RED

Connections



Codes in Node's



Node-RED interface showing the "Edit function node" dialog. The node is named "function" and is enabled. 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, Subflows, and Global Configuration Nodes. Below this, the node details for "function: 76ec77ccd270c2c7" are displayed, showing the Node ID and Type (function).

Node-RED interface showing the "Edit function node" dialog. The node is named "function" and is enabled. 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, Subflows, and Global Configuration Nodes. Below this, the node details for "function: 77b707bf262aa6f4" are displayed, showing the Node ID and Type (function).

Node-RED interface showing the "Edit geofence node" dialog. The node is named "geofence" and is enabled. The map shows a geofence area (purple circle) centered on a street intersection. The right sidebar shows the "info" panel with a search bar and a list of flows: Flow 1, Flow 2, Subflows, and Global Configuration Nodes. Below this, the node details for "geofence: ee4695a46b4858f1" are displayed, showing the Node ID and 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 (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". A link "The map can be found [here](#)." is displayed.

Node-RED interface showing the "Edit function node" configuration panel. The panel includes a Name field, Setup, On Start, On Message, and On Stop tabs. The "On Message" tab is selected, showing 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 rules: "is false" (→ 1) and "is true" (→ 2). The "checking all rules" checkbox is selected, 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" event. The code defines a function that returns a message object with the following properties:

```
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 following details:

- Node: "322663c3205cc798"
- 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" event. The code defines a function that returns a message object with the following properties:

```
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 following details:

- Node: "dfef78abe1ae2fd4"
- 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" event. The code defines a function that returns a message object with the following properties:

```
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 following details:

- Node: "36df960d0bd4f874"
- Type: function

Node-RED

filter nodes

Flow 1

IBM IoT

connected

function

function

geofence

function

switch

geofence

worldmap

worldmap in

tracks

convex - hull

Edit http request node

Delete Cancel Done

Properties

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

show more

Node-RED

filter nodes

Flow 1

IBM IoT

connected

function

function

geofence

function

switch

geofence

worldmap

worldmap in

tracks

convex - hull

Edit notification node

Delete Cancel Done

Properties

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

show more

Node-RED

filter nodes

Flow 1

IBM IoT

connected

function

function

geofence

function

switch

geofence

worldmap

worldmap in

tracks

convex - hull

Edit cloudant out node

Delete Cancel Done

Properties

Service Cloudant-pn-99850

Database noderedapqzh20221108

Operation insert

☐ Only store msg.payload object?

Name child

☐ Enabled

info

Search flows

Flows

- Flow 1
- Flow 2
- Subflows
- Global Configuration Nodes

child

Node "7f199a311bbfac36"

Type cloudant out

show more