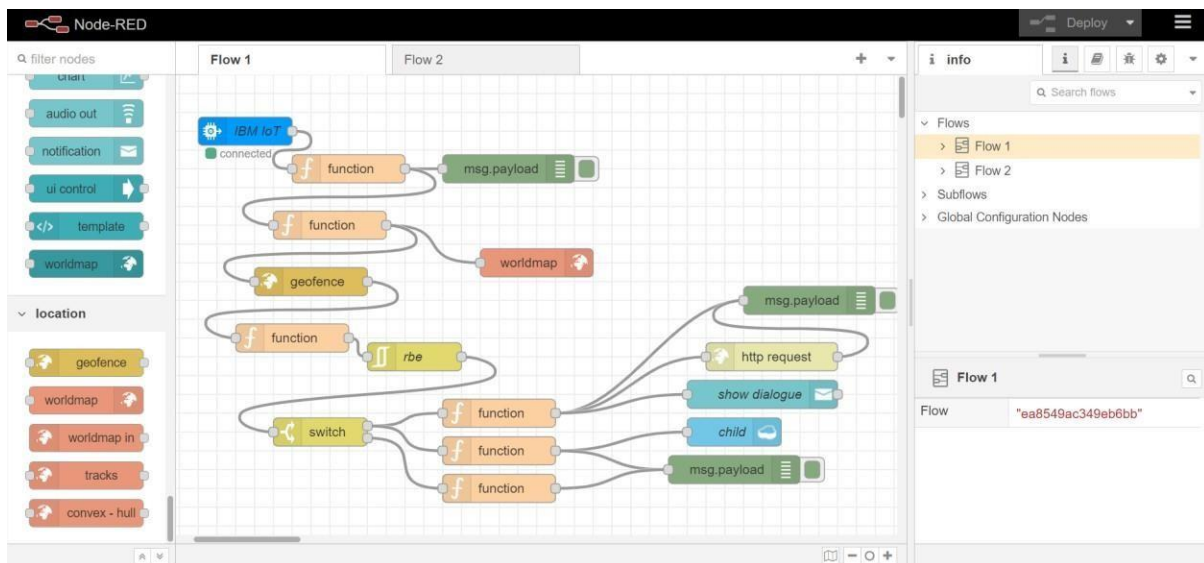


SPRINT 3

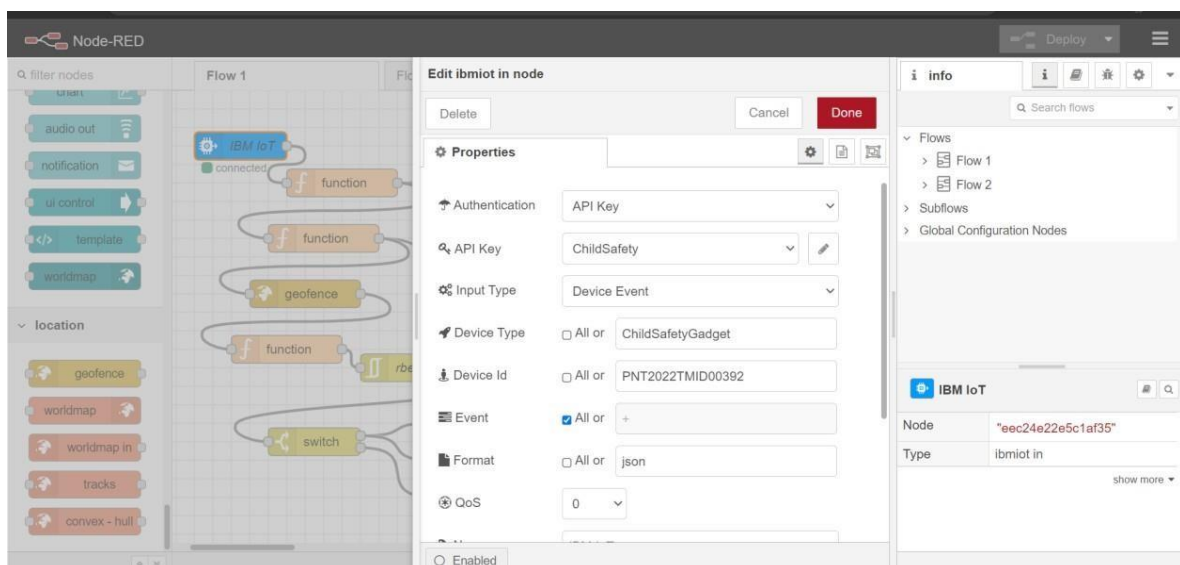
Date	09 November 2022
Team ID	PNT2022TMID39997
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification

NODE - RED

Connections



Codes in Node's



Node-RED interface showing the "Edit function node" configuration. The node is named "function" and is configured to run on the "On Message" trigger. The code defines variables for name, latitude, and longitude, and sets global context values for these variables.

```
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 the node ID "76ec77ccd270c2c7" and 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 message object with name, latitude, and longitude properties, and returns the message.

```
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 the node ID "77b707bf262aa6f4" and type "function".

Node-RED interface showing the "Edit geofence node" configuration. The node is named "geofence" and is configured to run on the "On Message" trigger. The configuration includes a map view showing a geofence area (purple circle) centered on a location (yellow dot) near "Nehru road".

The right sidebar shows the "info" panel with the node ID "ee4695a46b4859f1" and type "geofence".

Node-RED interface showing the configuration of a **worldmap** node.

Properties:

- 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
- Enabled: ☐

Info:

- Node: "5ed11e914b5614ea"
- Type: worldmap
- The map can be found [here](#).

Node-RED interface showing the configuration of a **function** node.

Properties:

- Name: Name
- Setup: ☐ On Start: ☐ On Message: ☐ On Stop: ☐
- Code:

```
1 msg.payload=msg.location.inarea
2 return msg;
```
- Enabled: ☐

Info:

- Node: "3585a4ac8098085f"
- Type: function

Node-RED interface showing the configuration of a **switch** node.

Properties:

- Name: Name
- Property: msg. payload
- Rules:
 - is false → 1
 - is true → 2
- checking all rules: ☐
- recreate message sequences: ☐
- Enabled: ☐

Info:

- Node: "16b63596382b4cc6"
- Type: switch

Node-RED

Flow 1

IBM IoT

connected

filter nodes

audio out

notification

ui control

template

worldmap

location

geofence

worldmap

worldmap in

tracks

convex - hull

Edit function node

Delete Cancel Done

Properties

Name

Setup On Start On Message On Stop

```
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;
```

Enabled

info

Search flows

Flows

- Flow 1
- Flow 2

Subflows

Global Configuration Nodes

function: 322663c3205cc798

Node "322663c3205cc798"

Type function

show more

Node-RED

Flow 1

IBM IoT

connected

filter nodes

audio out

notification

ui control

template

worldmap

location

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worldmap

worldmap in

tracks

convex - hull

Edit function node

Delete Cancel Done

Properties

Name

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8   "name": global.get('name'),
9   "lat": global.get('latitude'),
10  "lon": global.get('longitude')
11 };
12 return msg;
```

Enabled

info

Search flows

Flows

- Flow 1
- Flow 2

Subflows

Global Configuration Nodes

function: dfef78abe1ae2fd4

Node "dfef78abe1ae2fd4"

Type function

show more

Node-RED

Flow 1

IBM IoT

connected

filter nodes

audio out

notification

ui control

template

worldmap

location

geofence

worldmap

worldmap in

tracks

convex - hull

Edit function node

Delete Cancel Done

Properties

Name

Setup On Start On Message On Stop

```
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
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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;
```

Enabled

info

Search flows

Flows

- Flow 1
- Flow 2

Subflows

Global Configuration Nodes

function: 36df960d0bd4f874

Node "36df960d0bd4f874"

Type function

show more

Node-RED

Flow 1

filter nodes

audio out

notification

ui control

template

worldmap

location

geofence

worldmap

worldmap in

tracks

convex - hull

IBM IoT

connected

function

function

geofence

function

switch

rb

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

Flow 1

filter nodes

audio out

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geofence

worldmap

worldmap in

tracks

convex - hull

IBM IoT

connected

function

function

geofence

function

switch

rb

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

Flow 1

filter nodes

audio out

notification

ui control

template

worldmap

location

geofence

worldmap

worldmap in

tracks

convex - hull

IBM IoT

connected

function

function

geofence

function

switch

rb

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