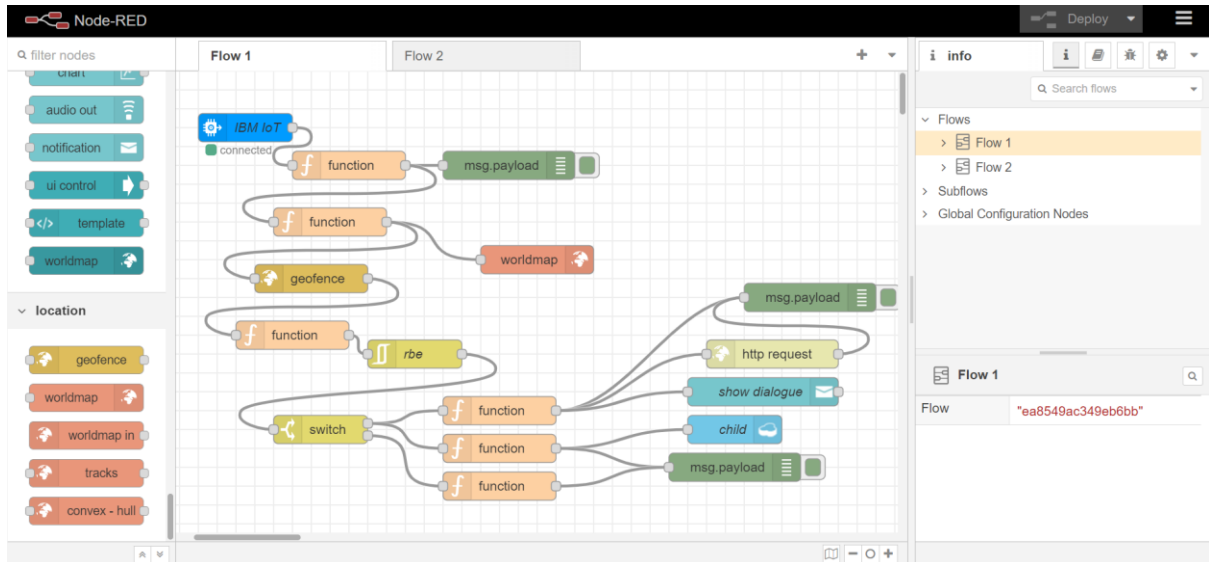


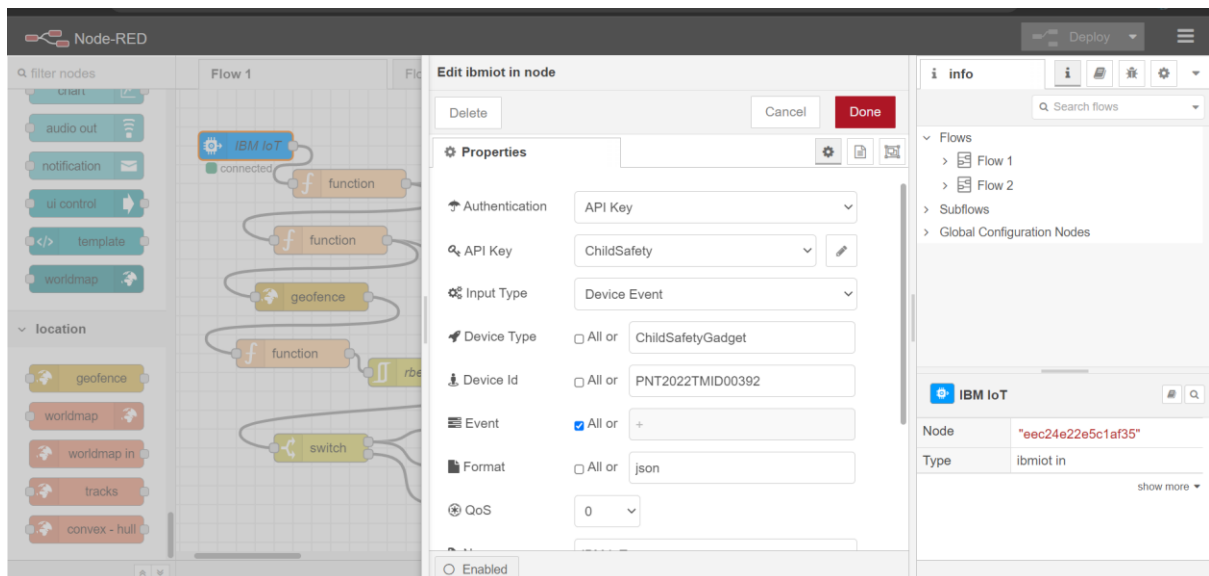
SPRINT 3

NODE – RED

Connections



Codes in Node's



Node-RED interface showing the "Edit function node" dialog. The node is named "function: 76ec77ccd270c2c7". 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.

Node-RED interface showing the "Edit function node" dialog. The node is named "function: 77b707bf262aa6f4". 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.

Node-RED interface showing the "Edit geofence node" dialog. The node is named "geofence: ee4695a46b4858f1". 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, Subflows, and Global Configuration Nodes.

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

Edit 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

- Flows**: Flow 1, Flow 2, Subflows, Global Configuration Nodes
- worldmap**: Node: "5ed11e914b5614ea", Type: worldmap
- The map can be found [here](#).

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

Edit function node

Properties

- Name**: Name
- Setup**: On Start, On Message, On Stop
- Code**:

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

Info

- Flows**: Flow 1, Flow 2, Subflows, Global Configuration Nodes
- function: 3585a4ac8098085f**: Node: "3585a4ac8098085f", Type: function

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

Edit switch node

Properties

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

Info

- Flows**: Flow 1, Flow 2, Subflows, Global Configuration Nodes
- switch**: Node: "16b63596382b4cc6", Type: switch

Node-RED

filter nodes

Flow 1

audio out

notification

ui control

template

worldmap

location

geofence

worldmap

worldmap in

tracks

convex - hull

IBM IoT

connected

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

filter nodes

Flow 1

audio out

notification

ui control

template

worldmap

location

geofence

worldmap

worldmap in

tracks

convex - hull

IBM IoT

connected

Edit function node

Delete Cancel Done

Properties

Name

Setup On Start On Message On Stop

```
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2 var utc = d.getTime() + (d.getTimezoneOffset() * 60000);
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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: dfe78abe1ae2fd4

Node "dfe78abe1ae2fd4"

Type function

show more

Node-RED

filter nodes

Flow 1

audio out

notification

ui control

template

worldmap

location

geofence

worldmap

worldmap in

tracks

convex - hull

IBM IoT

connected

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 interface showing a flow with an IBM IoT node, function nodes, a geofence node, and a switch node. The right sidebar displays the "Edit http request node" configuration.

Edit http request node

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 sidebar shows the node details:

- Node: "a43ddb0b4716e38d"
- Type: http request

Node-RED interface showing a flow with an IBM IoT node, function nodes, a geofence node, and a switch node. The right sidebar displays the "Edit notification node" configuration.

Edit notification node

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 sidebar shows the node details:

- Node: "388bcb2648d1348b"
- Type: ui_toast

Node-RED interface showing a flow with an IBM IoT node, function nodes, a geofence node, and a switch node. The right sidebar displays the "Edit cloudant out node" configuration.

Edit cloudant out node

Properties:

- Service: Cloudant-pn-99850
- Database: noderedapqzh20221108
- Operation: insert
- ☐ Only store msg.payload object?
- Name: child
- ☐ Enabled

Info sidebar shows the node details:

- Node: "7f199a311bbfac36"
- Type: cloudant out