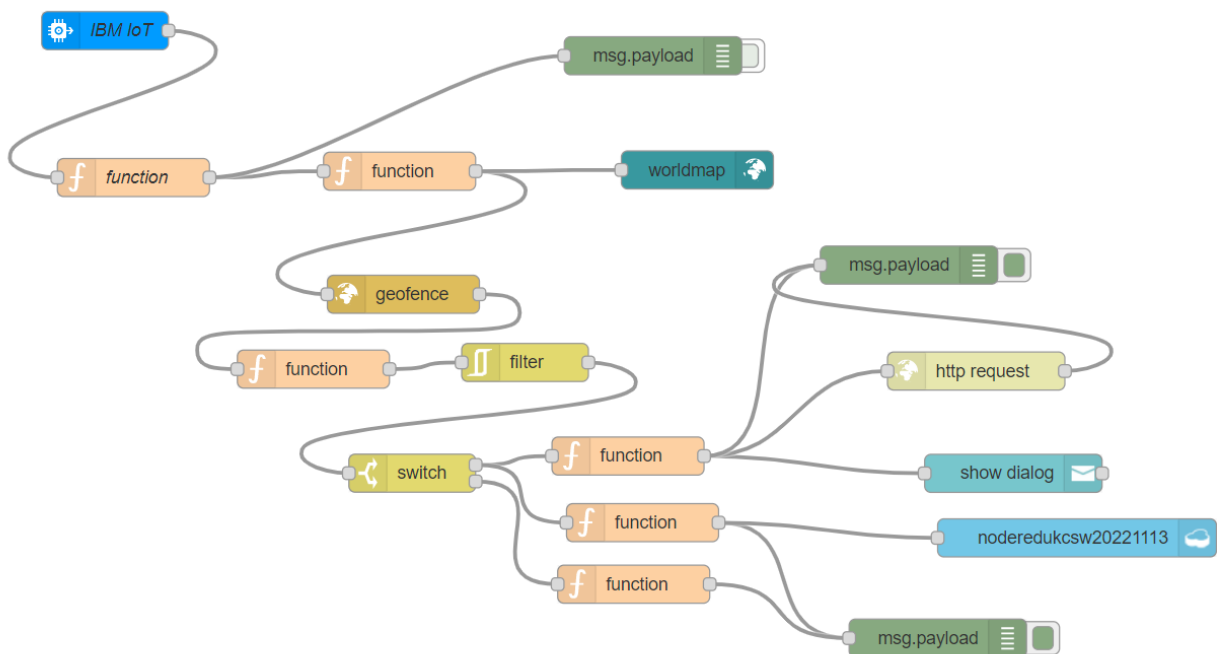


Project Development Phase

Delivery of Sprint 2

Date	14 November 2022
Team ID	PNT2022TMID12738
Project Name	IOT based safety Gadget for child safety monitoring and notification
Maximum Marks	2

Connecting the Required Nodes for the system



Configuring the Nodes

Edit function node > Edit geofence node > **Edit debug node**

Delete Cancel Done

Properties

Output

To ☒ debug window ☐ system console ☒ node status (32 characters)

Name

info

Search flows

Flows

- Flow 1
 - msg.payload
 - function
 - function: 47de6cbb4991562d
 - geofence
 - function: b32b64ac8c30a141
 - filter
 - function: 1f9807fa303f4a2b
 - function: 703ad9aee86f26d6
 - function: 70af18cd07701637
 - msg.payload
 - http request

msg.payload

Node "f2f2649a.0d0d98"

Type debug

show more

Edit function node > Edit geofence node > Edit debug node > **Edit function node**

Delete Cancel Done

Properties

Name

Setup On Start On Message On Stop

```
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;
```

info

Search flows

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 - function: 703ad9aee86f26d6
 - function: 70af18cd07701637
 - msg.payload
 - http request

function

Node "488dae08ff0db172"

Type function


show more

Configuring the Geofence

Edit function node > Edit geofence node > Edit debug node > Edit function node > Edit function node > **Edit geofence node**

Delete Cancel Done

Properties



_ Floor ground _ Ceiling infinity

Action add "inarea" property

Enable output of zones to WorldMap node ☐

☐ Enabled

info

Search flows

Flows

- Flow 1
 - msg.payload
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 - function: 1f9807fa303f4a2b
 - function: 703ad9aee86f26d6
 - function: 70af18cd07701637
 - msg.payload
 - http request

geofence

Node "9e56f71ccd568c42"

Type geofence

show more

Configuring the nodes

Edit function node > Edit geofence node > Edit debug node > Edit function node > Edit function node > Edit geofence node > Edit function node > **Edit function node**

Delete Cancel Done

Properties

Name Name

Setup On Start On Message On Stop

```
1 var d = new Date();
2
3 var utc = d.getTime() + (d.getTimeOffset() * 60000);
4
5 var offset = 5.5; // This is the offset for UTC+3, in your case (UTC+1)
6
7 newDate = newDate(utc + (3600000*offset));
8
9 msg.payload = {
10   "message": "Entry",
11   "time":newDate.toLocaleString(),
12   "name": global.get('name'),
13   "lat":global.get('latitude'),
14   "lon":global.get('longitude')
15 };
16
17 return msg;
```

info

Search flows

Flows

- Flow 1
 - msg.payload
 - function
 - function: 47de6cbb4991562d
 - geofence
 - function: b32b64ac8c30a141
 - filter
 - function: 1f9807fa303f4a2b
 - function: 703ad9aee86f26d6
 - function: 70af18cd07701637
 - msg.payload
 - http request

function: 703ad9aee86f26d6

Node "703ad9aee86f26d6"

Type function

show more

Edit function node > Edit geofence node > Edit debug node > Edit function node > Edit function node > Edit geofence node > Edit function node > Edit filter node > Edit function node > Edit function node > Edit function node > Edit function node > Edit debug node > Edit http request node

Delete

Cancel

Done

Properties

Method

GET

URL

https://www.fast2sms.com/dev/bulkV2?authorization=ndPubWp4BIIIFSxqUZHxRzTK0k1OQYmreM2J5v6N

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

Name

Name

Find in workspace

http request

Flows

Flow 1

msg.payload

function

function: 47de6cbb4991562d

geofence

function: b32b64ac8c30a141

filter

function: 1f9807fa303f4a2b

function: 703ad9aee86f26d6

function: 70af18cd07701637

msg.payload

http request

Node

"47c9760d537821f1"

Type

http request

show more

Edit function node > Edit geofence node > Edit debug node > Edit function node > Edit function node > Edit geofence node > Edit function node > Edit filter node > Edit function node > Edit function node > Edit function node > Edit debug node > Edit http request node > Edit notification node > Edit switch node > Edit debug node > Edit worldmap node

Delete

Cancel

Done

Properties

Group

[Flow 1] Map

Size

auto

Start

Latitude

17.4225176

Longitude

78.5458842

Zoom

16

Map list

7 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

worldmap

Node

"f19f0c0722bb5477"

Type

ui_worldmap

show more

Edit function node > Edit geofence node > Edit debug node > Edit function node > Edit function node > Edit geofence node > Edit function node > Edit filter node > Edit function node > Edit function node > Edit function node > Edit function node > Edit debug node > Edit http request node > Edit notification node > Edit switch node > Edit debug node > Edit worldmap node > **Edit ibmiot in node**

Delete Cancel Done

Properties

Authentication: API Key

API Key: IBMIOT

Input Type: Device Event

Device Type: ☒ All or +

Device Id: ☐ All or device id e.g. ab12cd231a21

Event: ☒ All or +

Format: ☐ All or json

QoS: 0

Name: IBM IoT

Service: registered

Use the Input Type property to configure this node to receive Events

☐ Enabled

info

Search flows

- function: 703ad9aee86f26d6
- function: 70af18cd07701637
- msg.payload
- http request
- show dialog
- switch
- msg.payload
- worldmap
- IBM IoT**
- noderedukcsw20221113

> Flow 2

> Subflows

> Global Configuration Nodes

IBM IoT

Node	"41aaae0f43cc923a"
Type	ibmiot in

show more

Edit function node > Edit geofence node > Edit debug node > Edit function node > Edit function node > Edit geofence node > Edit function node > Edit filter node > Edit function node > Edit function node > Edit function node > Edit function node > Edit debug node > Edit http request node > Edit notification node > Edit switch node > Edit debug node > Edit worldmap node > Edit ibmiot in node > **Edit cloudant out node**

Delete Cancel Done

Properties

Service: External cloudant or couchdb service

Server: https://apikey-v2-2py6l8kqyg9nclq4tsujdiy4ldnskr10m5rr5u8tkdp2:6f0769cd6ab82cf8fd43ce9b2

Database: noderedukcsw20221113

Operation: insert

☐ Only store msg.payload object?

Name: Name

info

Search flows

- function: 703ad9aee86f26d6
- function: 70af18cd07701637
- msg.payload
- http request
- show dialog
- switch
- msg.payload
- worldmap
- IBM IoT
- noderedukcsw20221113**

> Flow 2

> Subflows

> Global Configuration Nodes

noderedukcsw20221113

Node	"6a8efa03bb7acdc2"
Type	cloudant out

show more

Service Details - x Cloudant Dashb... x Cloudant | IBM C... x IBM Watson IoT... x Node-RED: node... x Cloudant Dashb... x Node-RED Dashb... x Node-RED Dashb... x +

node-red-ukcsw-2022-11-13.eu-de.mybluemix.net/red/#flow/98396d7487f21834

Node-RED

filter nodes

- csv
- html
- json
- xml
- yaml

storage

- Db2 in
- cloudant in
- dashDB in
- Db2 out
- cloudant out
- dashDB out

IBM Watson

- assistant
- assistant

Flow 1

debug

msg.payload: Object

```
{ name: "Smartbridge", lat: 17.4225176, lon: 78.5458842 }
```

11/19/2022, 3:42:09 PM node: 90eabc176ec934e5
io1-2/type/NodeMCU/92461/ev/status/rml/json :
msg.payload: Object

```
{ name: "Smartbridge", lat: 17.4225176, lon: 78.5458842 }
```

11/19/2022, 3:42:14 PM node: 90eabc176ec934e5
io1-2/type/NodeMCU/92461/ev/status/rml/json :
msg.payload: Object

```
{ name: "Smartbridge", lat: 17.4225176, lon: 78.5458842 }
```

11/19/2022, 3:42:19 PM node: 90eabc176ec934e5
io1-2/type/NodeMCU/92461/ev/status/rml/json :
msg.payload: Object

```
{ name: "Smartbridge", lat: 17.4225176, lon: 78.5458842 }
```

11/19/2022, 3:42:24 PM node: 90eabc176ec934e5
io1-2/type/NodeMCU/92461/ev/status/rml/json :
msg.payload: Object

```
{ name: "Smartbridge", lat: 17.4225176, lon: 78.5458842 }
```

11/19/2022, 3:42:29 PM node: 90eabc176ec934e5
io1-2/type/NodeMCU/92461/ev/status/rml/json :
msg.payload: Object

```
{ name: "Smartbridge", lat: 17.4225176, lon: 78.5458842 }
```

30°C Haze

ENG IN

3:42 PM

11/19/2022