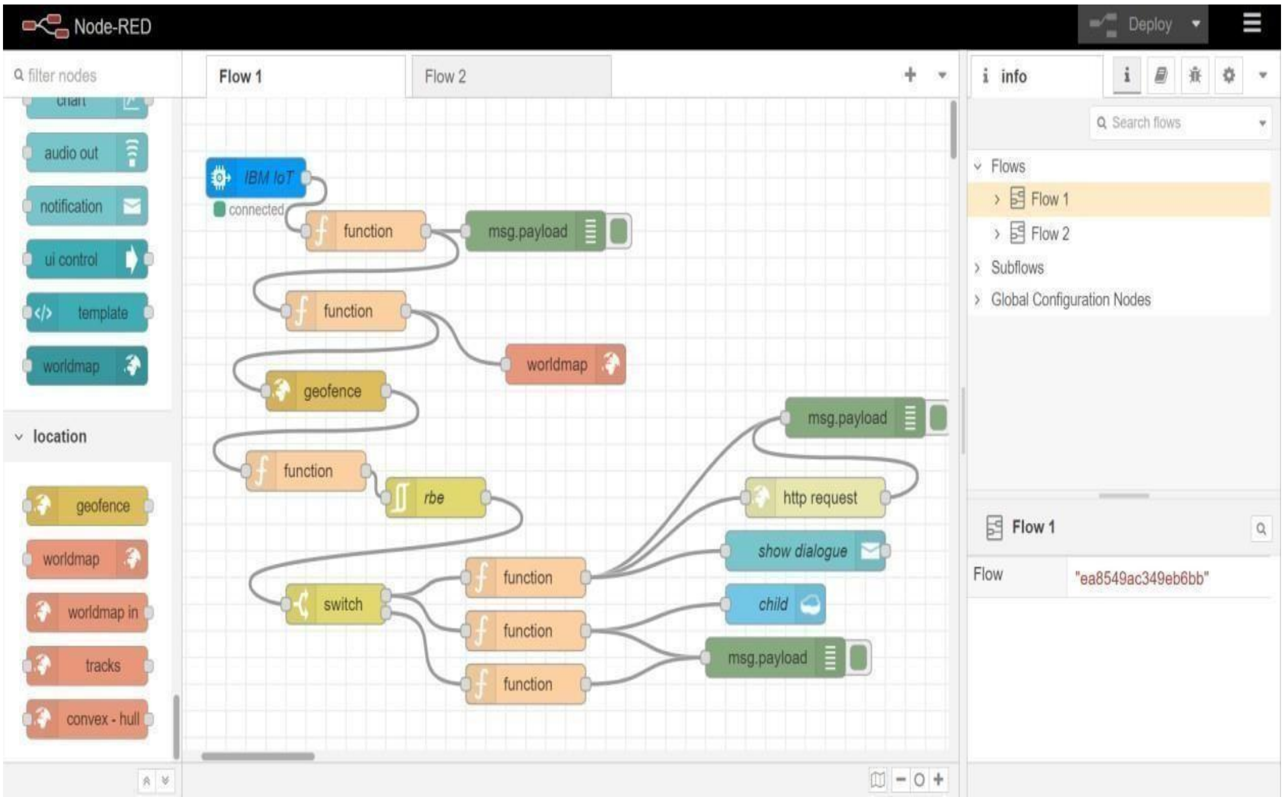
Project Development Phase
SPRINT-3

NODE RED-Cloudant DB Communication:

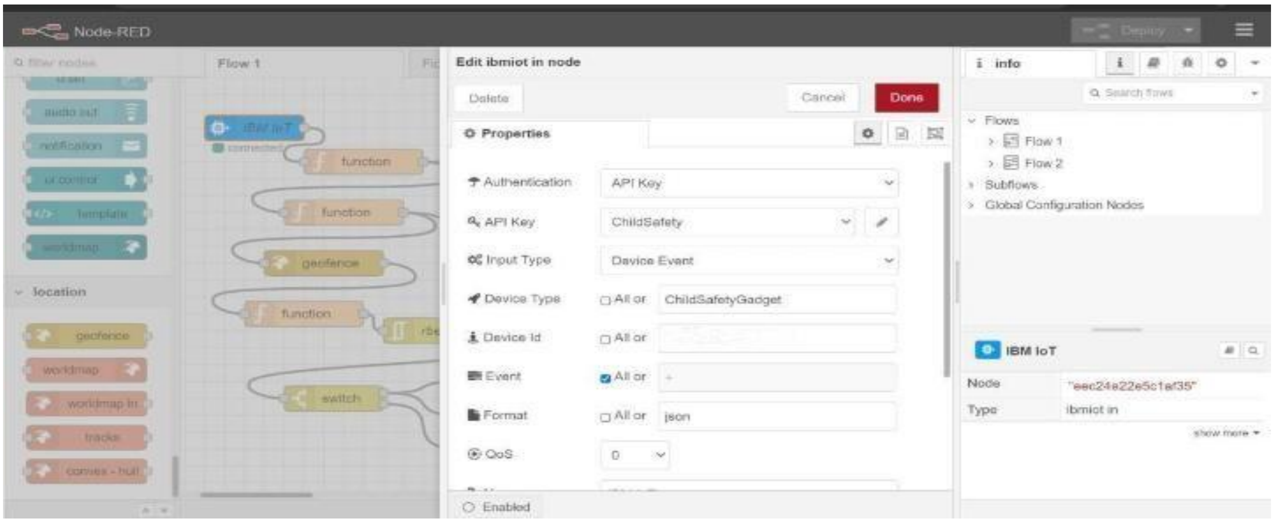
Step 1:Connections



Flow 1

Flow	"ea8549ac349eb6bb"

Step 2: Code in nodes



Edit ibmiot in node

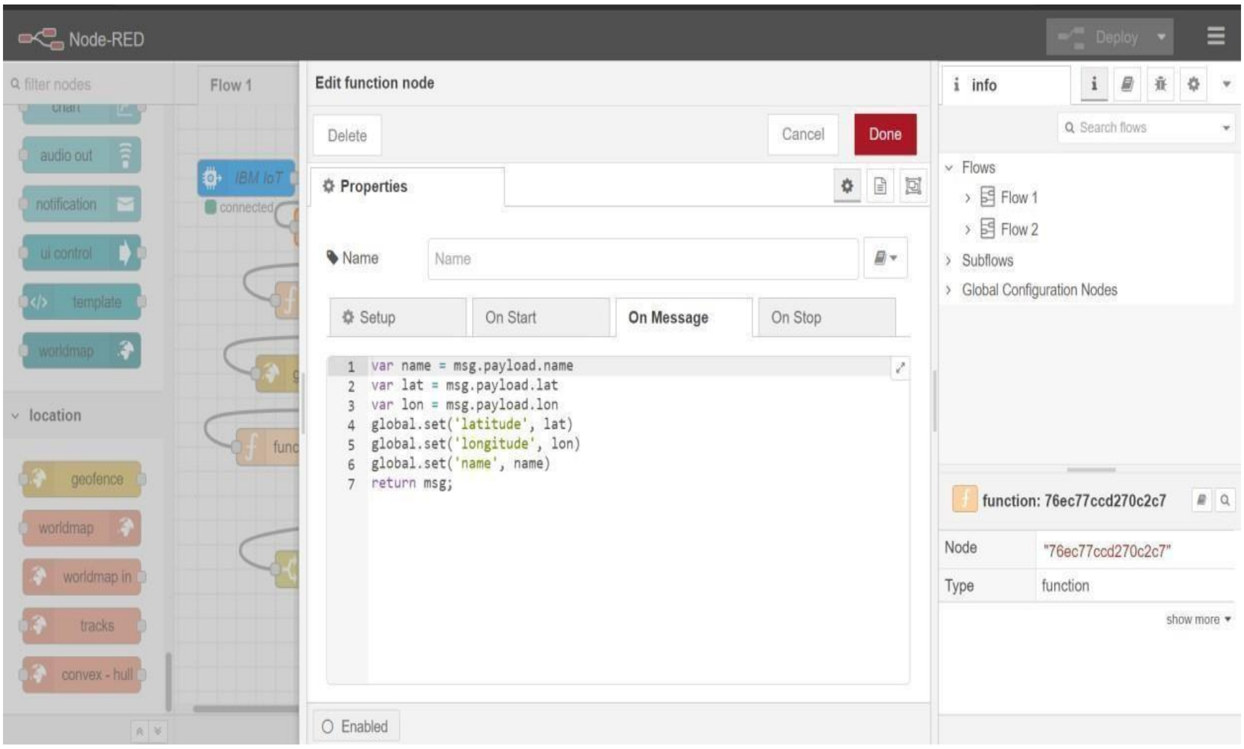
Authentication	API Key	
API Key	ChildSafety	
Input Type	Device Event	
Device Type	□ All or	ChildSafetyGadget
Device Id	□ All or	
Event	☑ All or	+
Format	□ All or	json
QoS	0	

○ Enabled

IBM IoT

Node	"eec24e22e5c1ef35"
Type	ibmiot in

Step 3:Edit function mode(code)

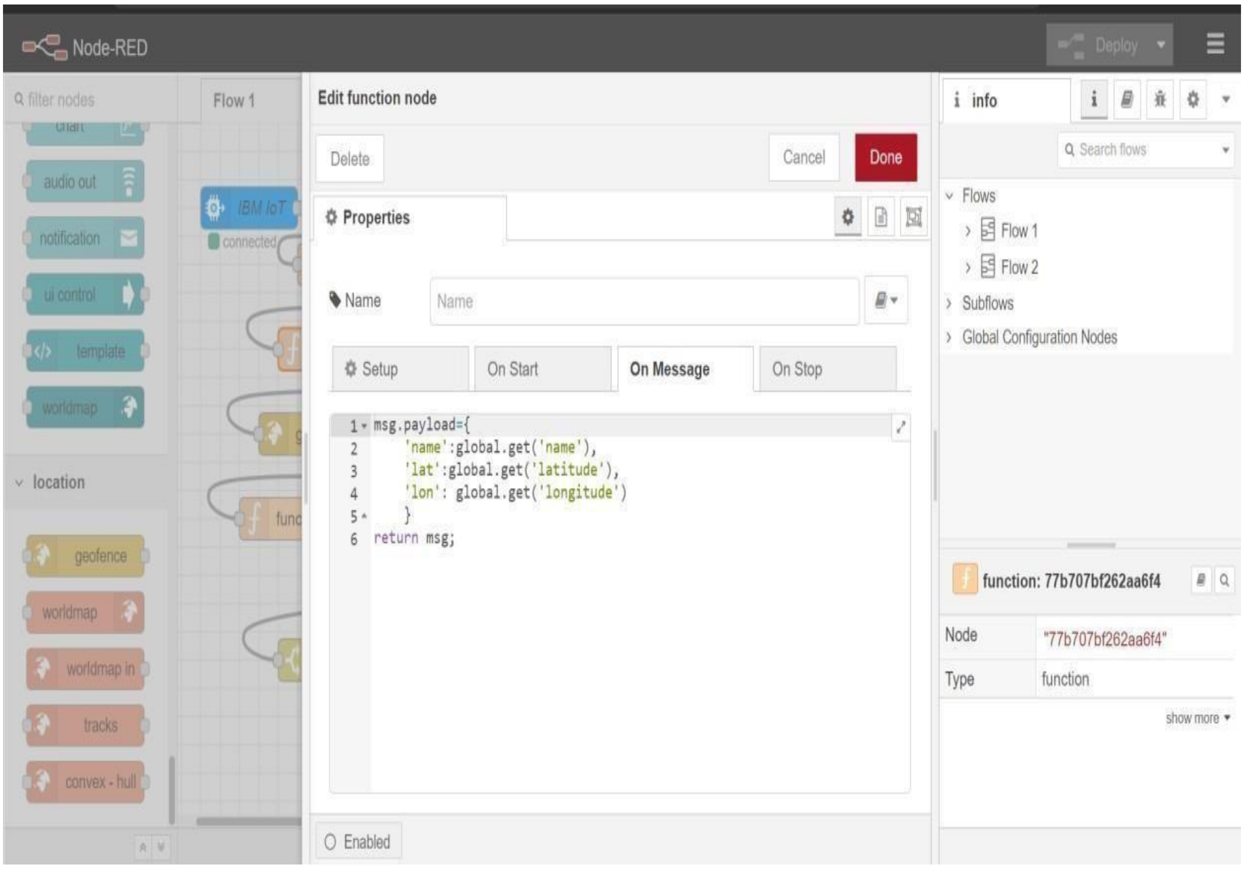


```
var name = msg.payload.name
var lat = msg.payload.lat
var lon = msg.payload.lon
global.set('latitude', lat)
global.set('longitude', lon)
global.set('name', name)
return msg;
```

Node "76ec77ccd270c2c7"

Type function

Step 4:Changing code

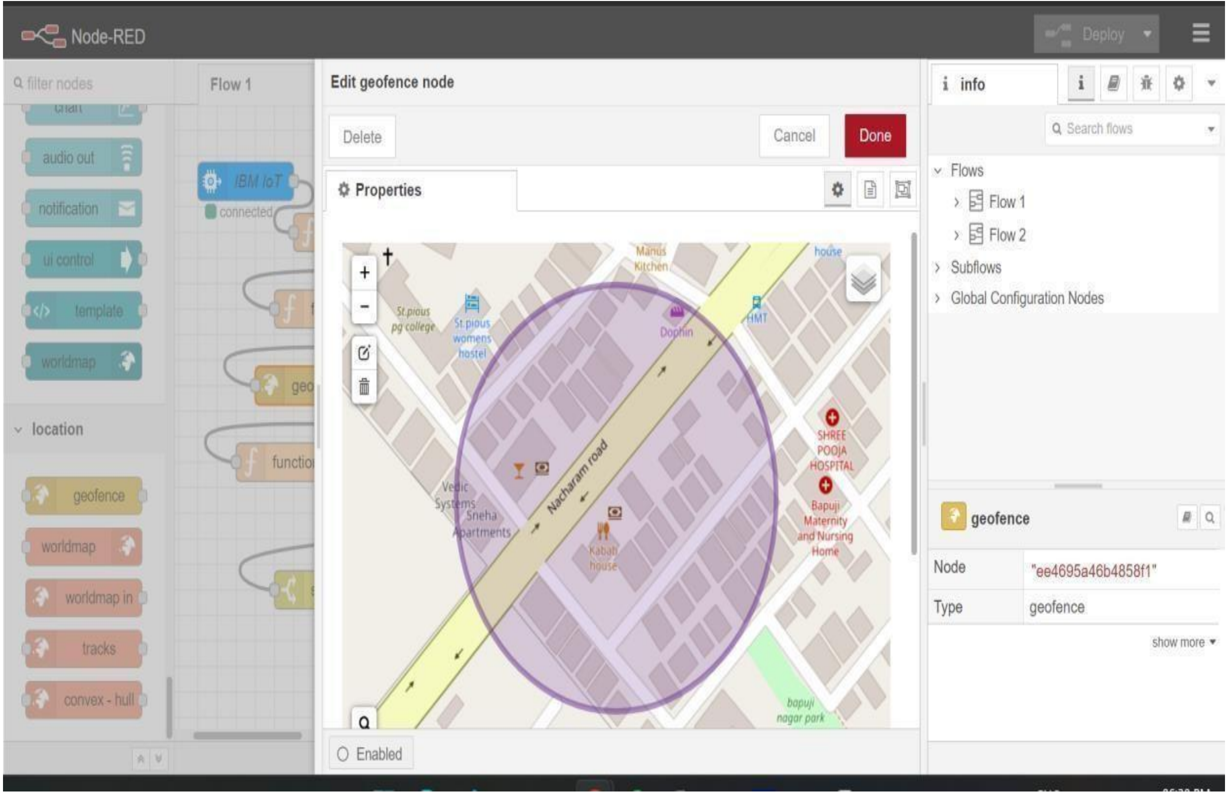


```
msg.payload={
    'name':global.get('name'),
    'lat':global.get('latitude'),
    'lon': global.get('longitude')
    }
return msg;
```

Node "77b707bf262aa6f4"

Type function

Step 5: Geofencing mode

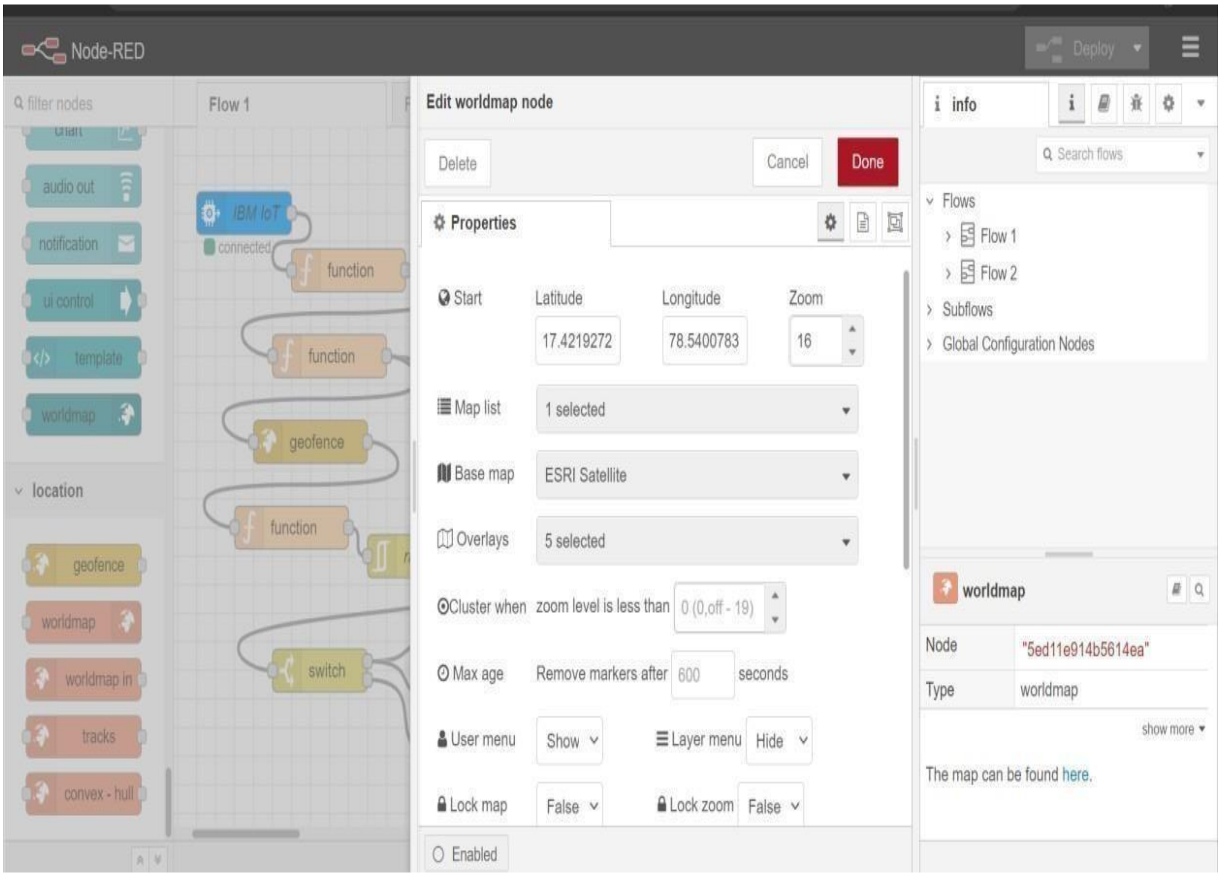


Edit geofence node

geofence

Node	"ee4695a46b4858f1"
Type	geofence

Step 6: Worldmap node with properties



Edit worldmap node

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

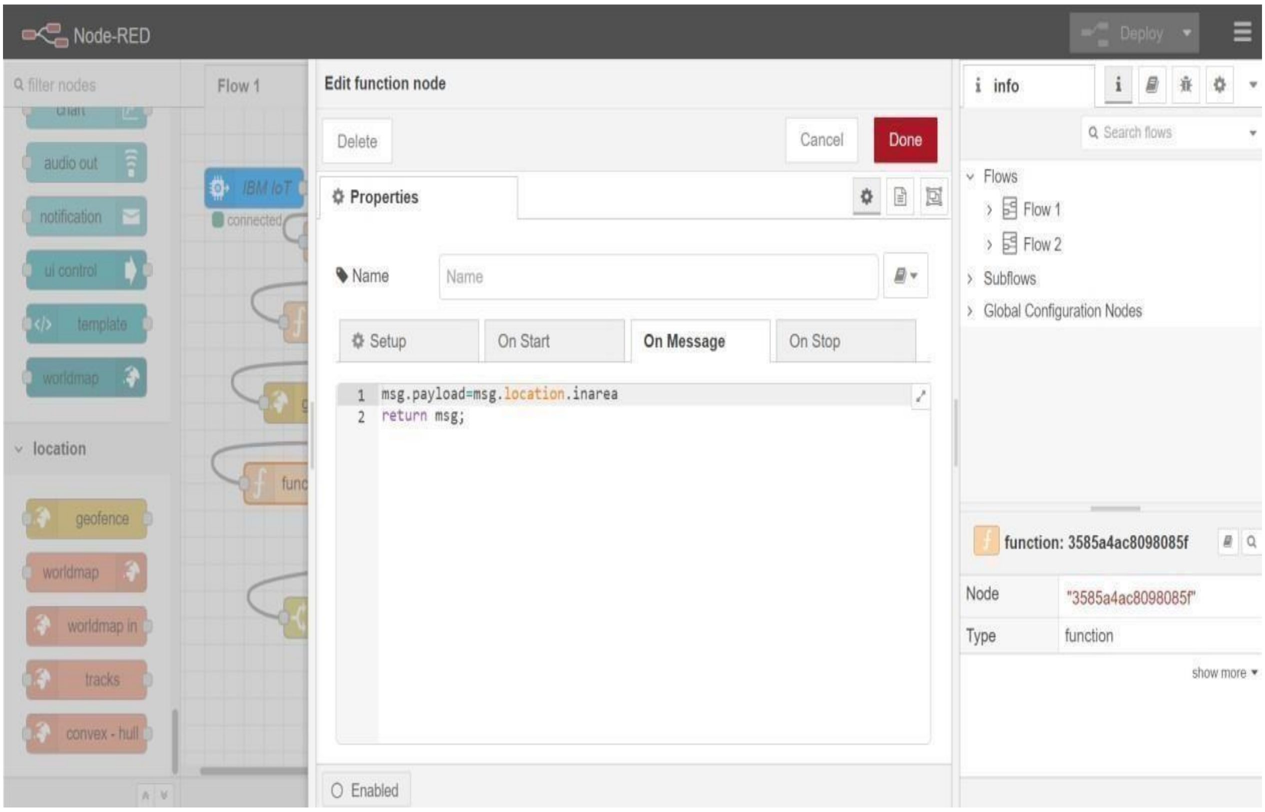
Lock map False Lock zoom False

worldmap

Node	"5ed11e914b5614ea"
Type	worldmap

The map can be found here.

Step 7:Apply the code with different node



Edit function node

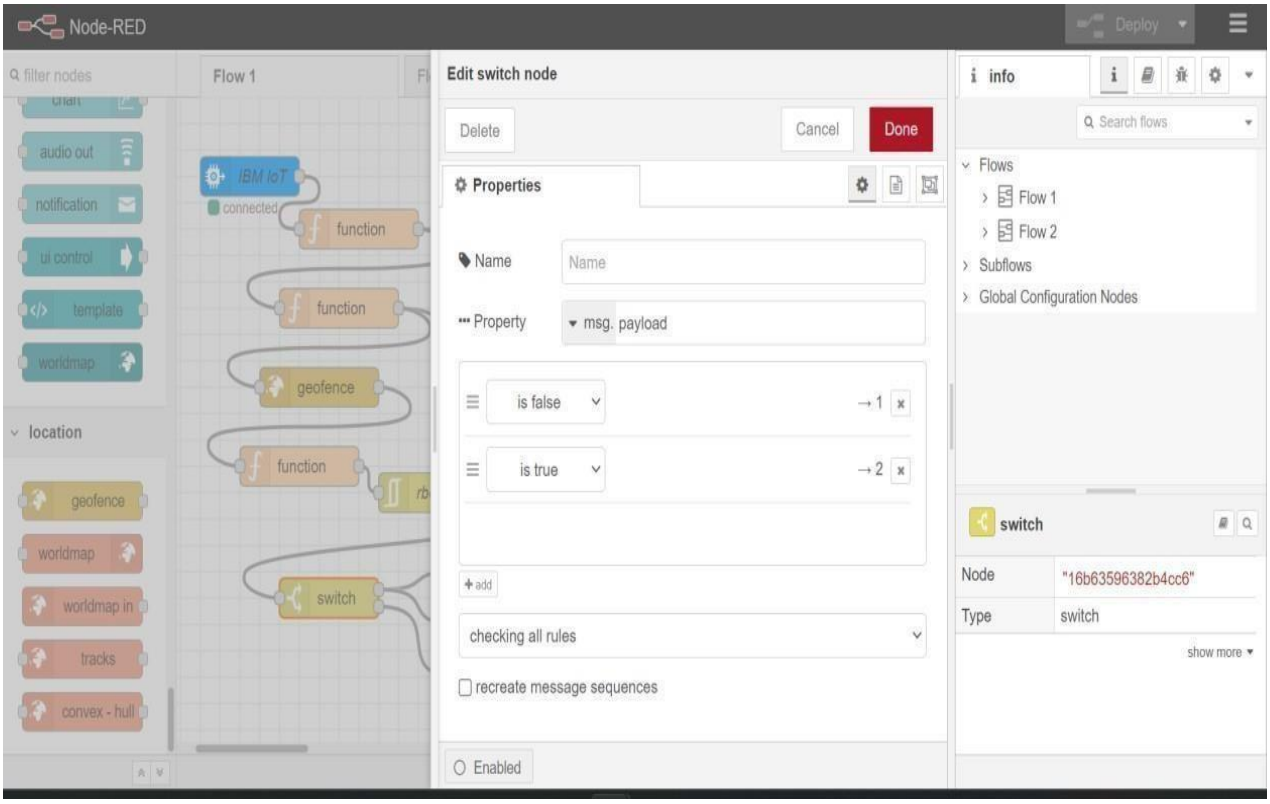
Name: Name

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

function: 3585a4ac8098085f

Node	"3585a4ac8098085f"
Type	function

Step 8:Code with different node



Edit switch node

Name: Name

Property: msg. payload

is false → 1

is true → 2

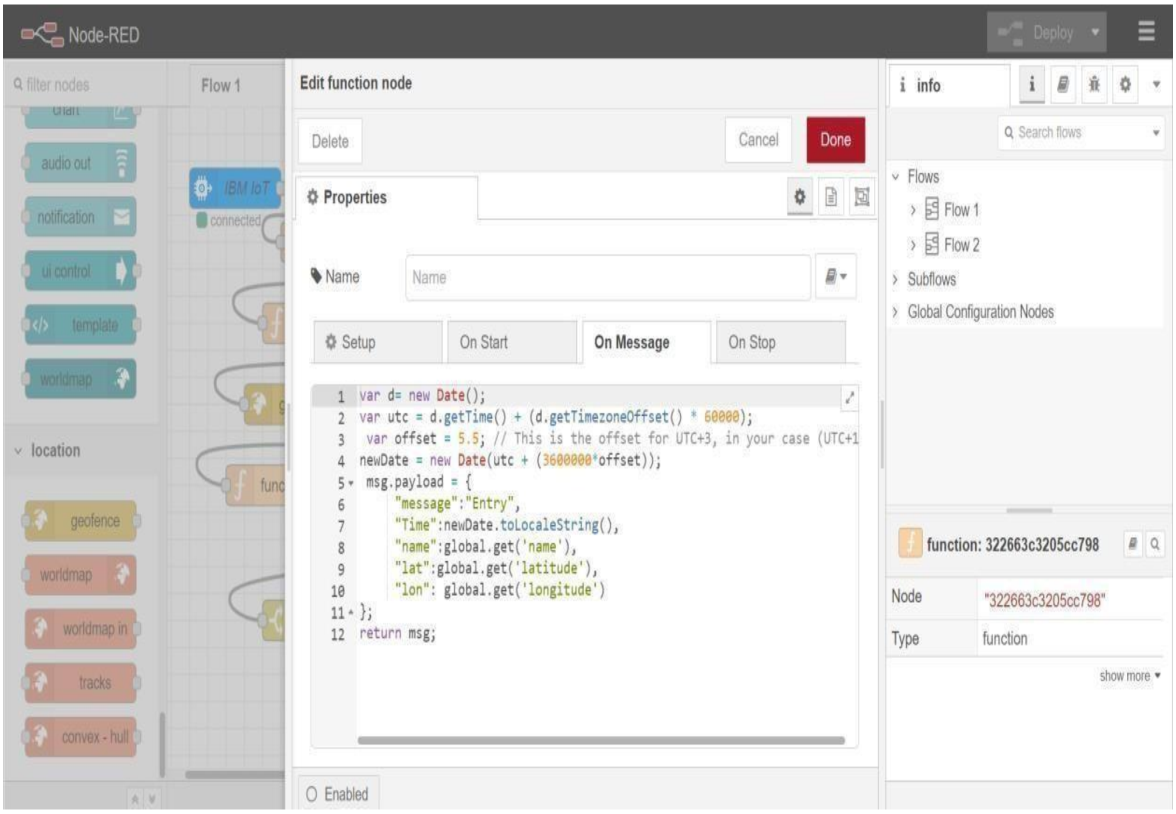
checking all rules

☐ recreate message sequences

switch

Node	"16b63596382b4cc6"
Type	switch

Step 9:Code with different node

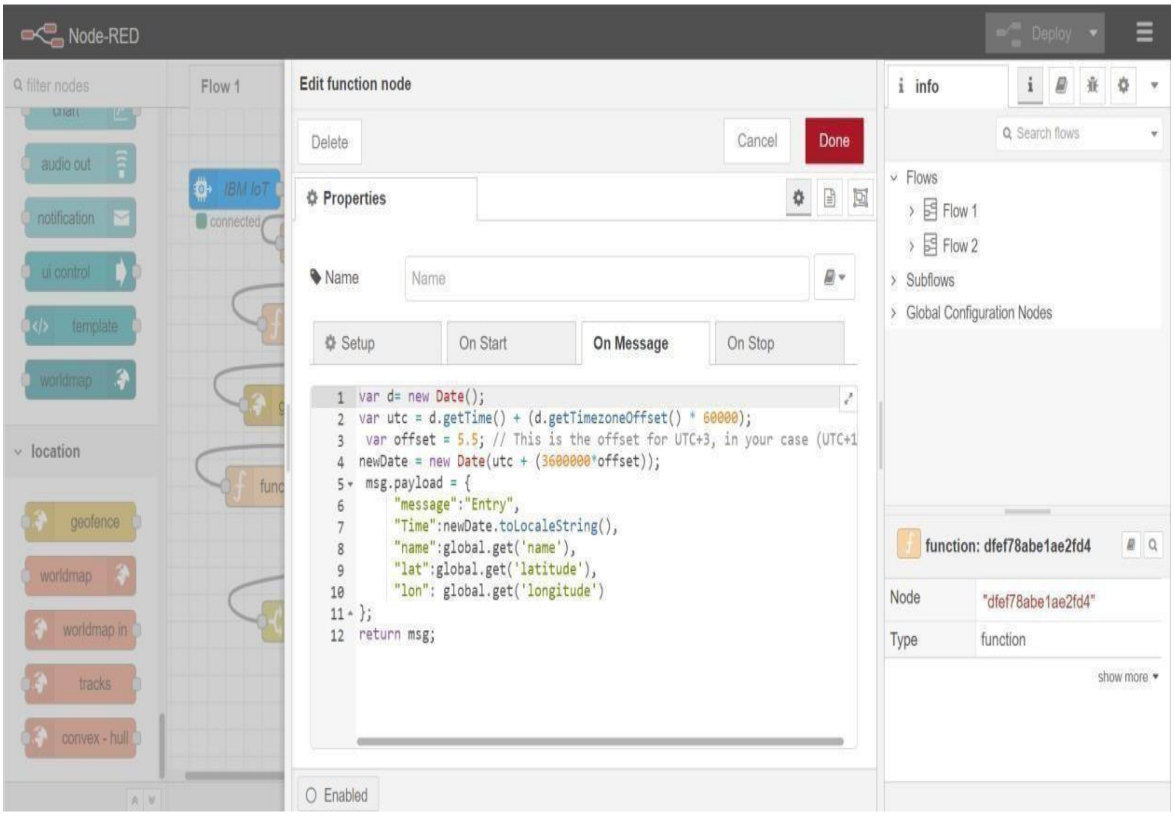


```
var d= new Date();
var utc = d.getTime() + (d.getTimezoneOffset() * 60000);
 var offset = 5.5; // This is the offset for UTC+3, in your case (UTC+1
newDate = new Date(utc + (3600000*offset));
 msg.payload = {
     "message":"Entry",
     "Time":newDate.toLocaleString(),
     "name":global.get('name'),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

function: 322663c3205cc798

Node	"322663c3205cc798"
Type	function

Step 10:code with different node

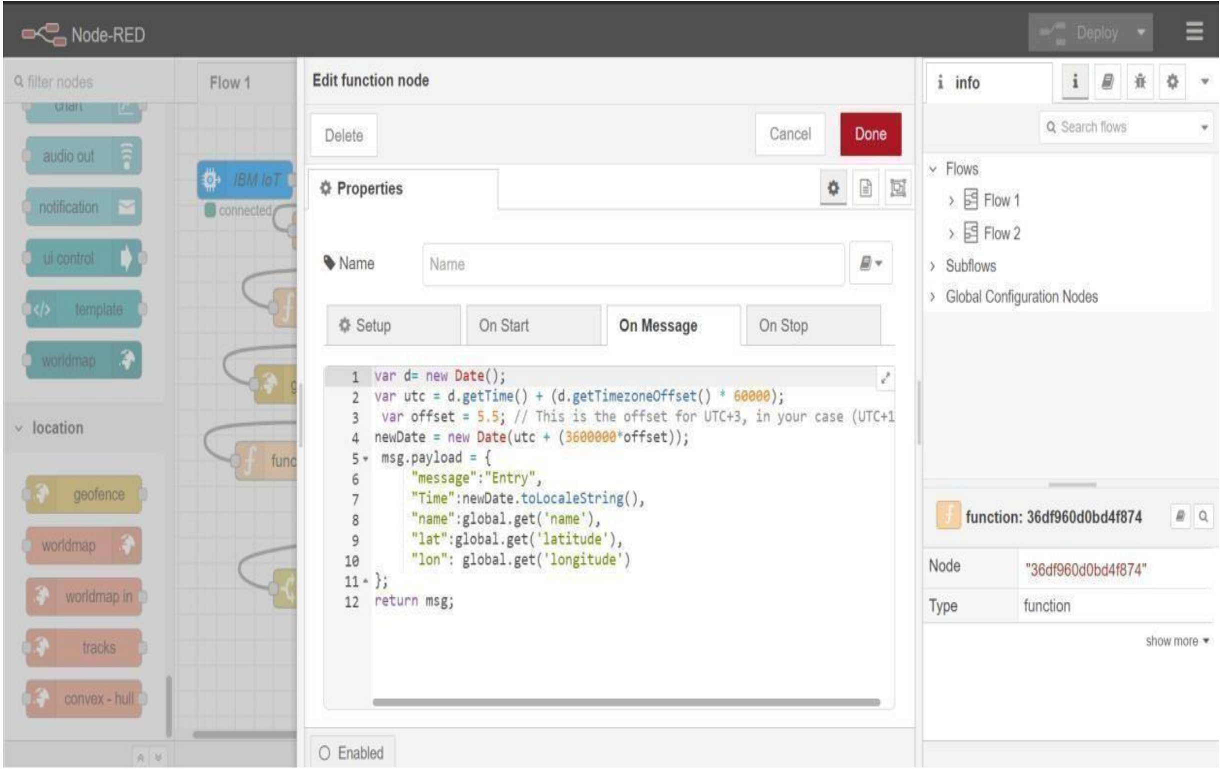


```
var d= new Date();
var utc = d.getTime() + (d.getTimezoneOffset() * 60000);
 var offset = 5.5; // This is the offset for UTC+3, in your case (UTC+1
newDate = new Date(utc + (3600000*offset));
 msg.payload = {
     "message":"Entry",
     "Time":newDate.toLocaleString(),
     "name":global.get('name'),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

function: dfef78abe1ae2fd4

Node	"dfef78abe1ae2fd4"
Type	function

Step 11:Code with different node



Edit function node

Delete Cancel Done

Properties

Name: Name

Setup | On Start | On Message | On Stop

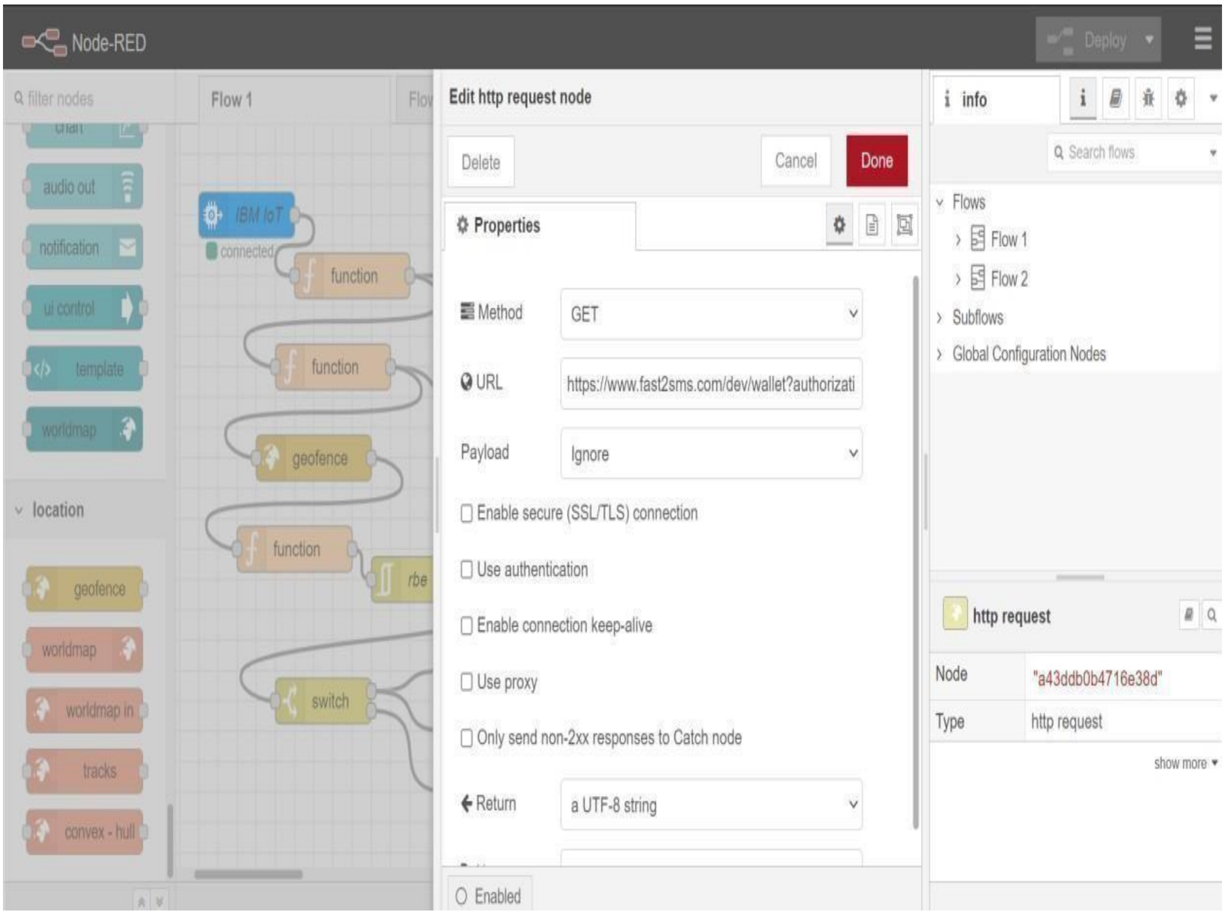
```
var d= new Date();
var utc = d.getTime() + (d.getTimezoneOffset() * 60000);
 var offset = 5.5; // This is the offset for UTC+3, in your case (UTC+1
newDate = new Date(utc + (3600000*offset));
 msg.payload = {
     "message":"Entry",
     "Time":newDate.toLocaleString(),
     "name":global.get('name'),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

○ Enabled

function: 36df960d0bd4f874

Node	"36df960d0bd4f874"
Type	function

Step 12:Http request node->properties



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

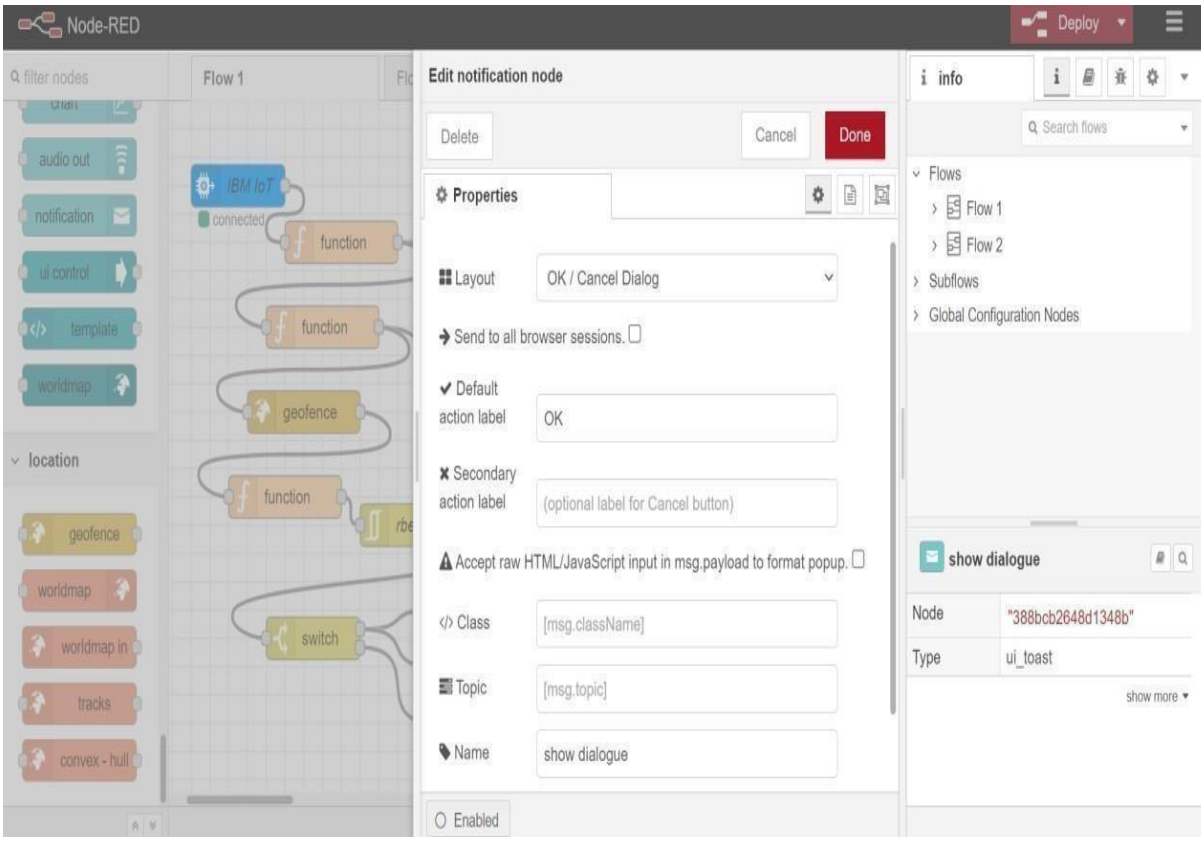
Return: a UTF-8 string

○ Enabled

http request

Node	"a43ddb0b4716e38d"
Type	http request

Step 13:Notification node



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]

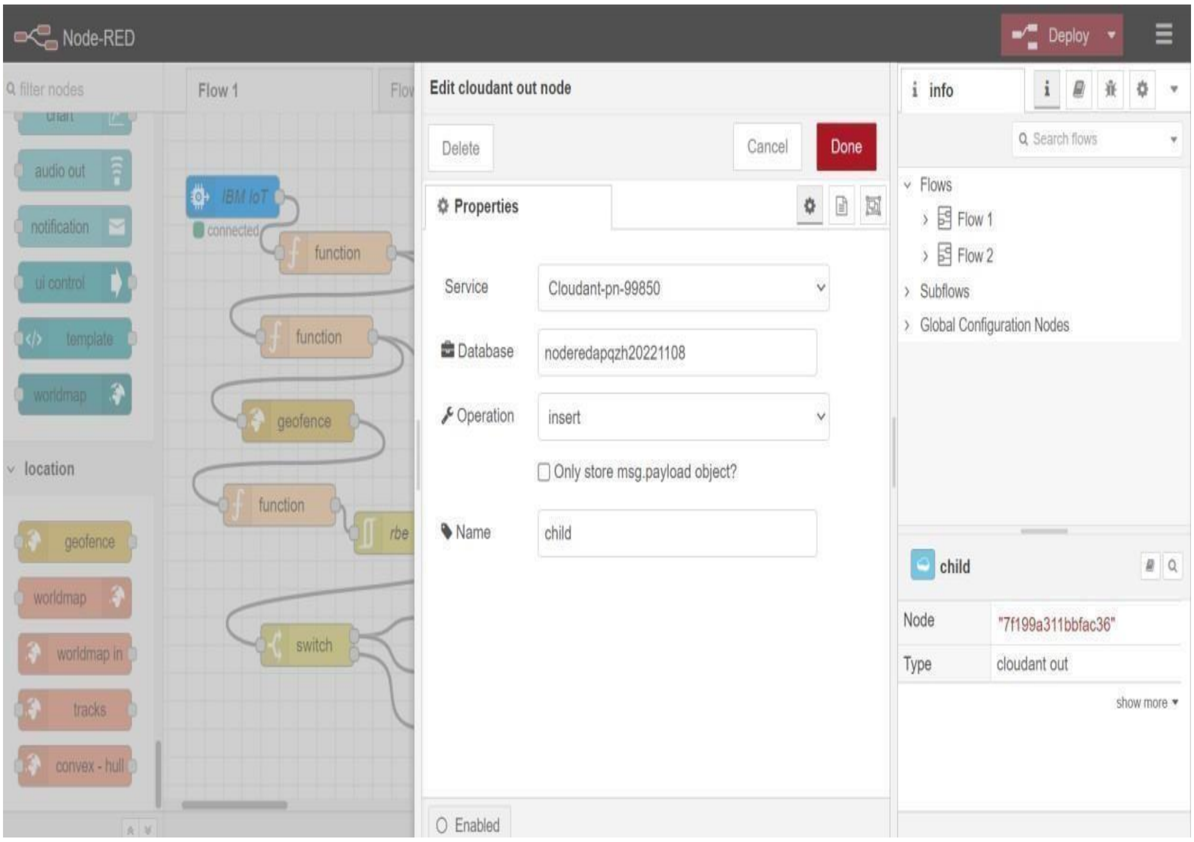
Name: show dialogue

○ Enabled

show dialogue

Node	"388bcb2648d1348b"
Type	ui_toast

Step 14:Cloudant node



Edit cloudant out node

Delete Cancel Done

Properties

Service: Cloudant-pn-99850

Database: noderedapqzh20221108

Operation: insert

□ Only store msg.payload object?

Name: child

○ Enabled

child

Node	"7f199a311bbfac36"
Type	cloudant out