

# PROJECT DEVELOPMENT PHASE

## DELIVERY OF SPRINT 2

Date	14 November 2022
Team ID	PNT2022TMID33781
Project Name	Personal Assistance for Seniors who are Self-reliant

## Outline of Sprint 2

This sprint delivery document contains the following,

- 1)To create a form dashboard to enter the medicine details.
- 2)To send the medicine name at the right time to the IoT device.
- 3)Total node flow of the entire Web UI.
- 4)The results of the web UI after deploying.

## To create a form dashboard to enter the medicine details.

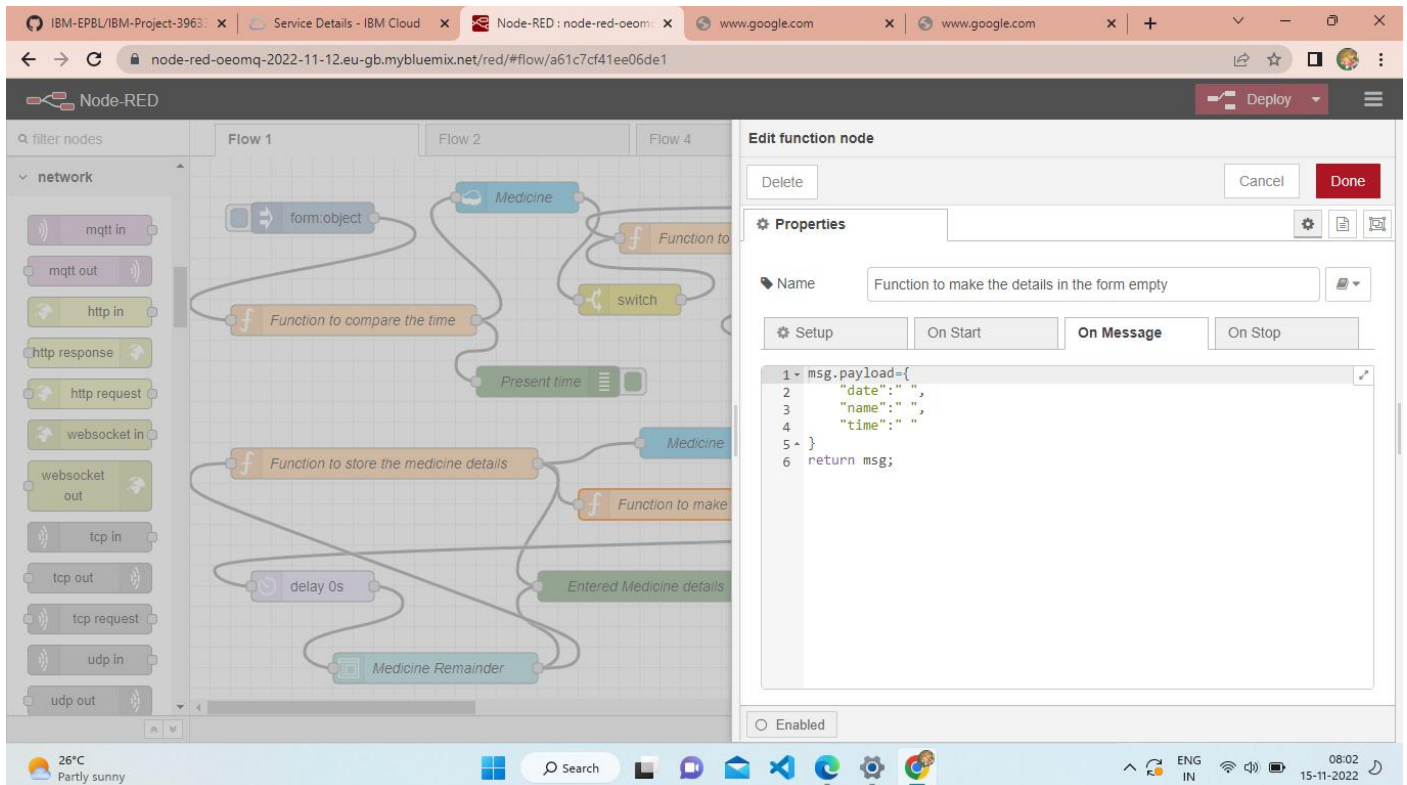
- Create a form in node-red dashboard installed in the manage palate option.
- Form allows the user to enter the medicine name, time in which the medicine has to be taken and the day.
- Medicine details entered in the form are stored in the cloudant db database service.

The screenshot displays the Node-RED web interface in a browser. The main workspace shows a flow with several nodes: 'form object', 'Function to compare the time', 'Present time', 'Function to store the medicine details', 'Medicine', 'switch', 'Function to make', 'delay 0s', and 'Medicine Remainder'. The 'Edit function node' panel is open on the right, showing the code for the 'Function to store the medicine details' node. The code is as follows:

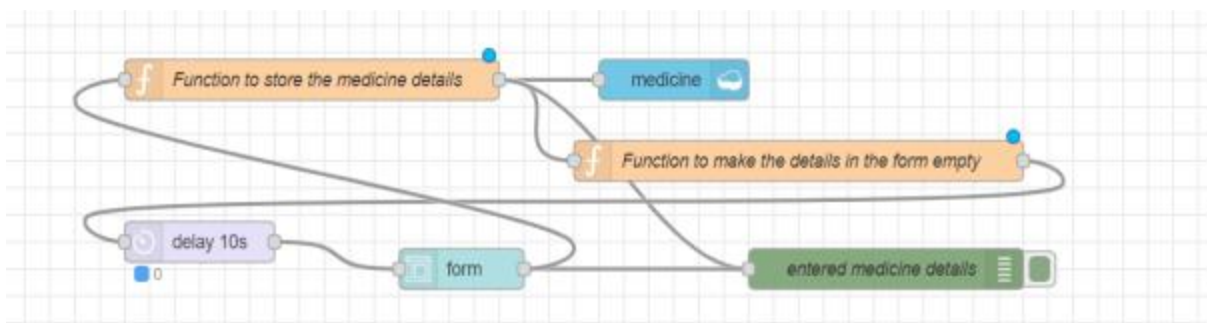
```
1 var d=msg.payload.date
2 var t=msg.payload.time
3 msg.payload = {
4   "_id": d+" "+t,
5   "name":msg.payload.name,
6 }
7 return msg;
```

The browser's address bar shows the URL: `node-red-oemq-2022-11-12.eu-gb.mybluemix.net/red/#flow/a61c7cf41ee06de1`. The bottom of the screen shows a Windows taskbar with the date and time: 08:02 15-11-2022.

- Another function is written to make the contents of the form empty after a delay to facilitate the entry of the other medicine details.



- Node flow for the creation of the form.



- UI for entering the medicine details

Medicine Remainder

Medicine Remainder

Enter the name of the Medicine \*

Enter the Time(HH:MM) \*

Enter the Date/YYYY-MM-DD \*

SUBMIT

CANCEL

## To send the medicine name at the right time to the IoT device.

- To accomplish this we need to write a function to compare the present time with the time entered in the form.
- The following function will obtain the present time.

Properties

Name: Function to compare the time

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;
4 newDate= new Date(utc + (3600000*offset));
5 var n=newDate.toISOString()
6 var date = n.slice(0, 10)
7 var time = n.slice(11,16)
8 global.set('time', time)
9 msg.payload=date+" "+time
10 return msg
```

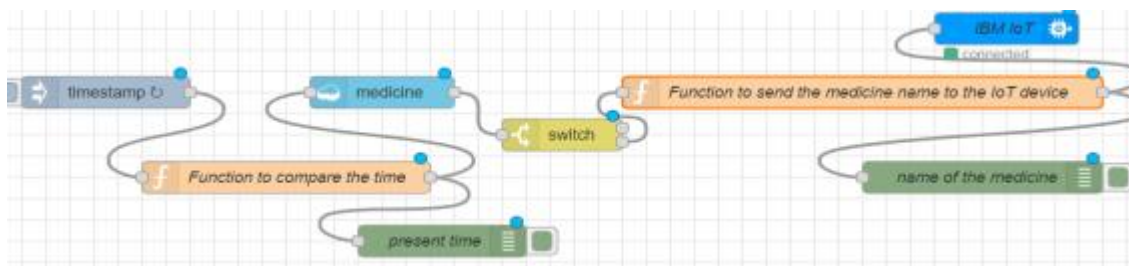
Properties

Name: Function to send the medicine name to the IoT device

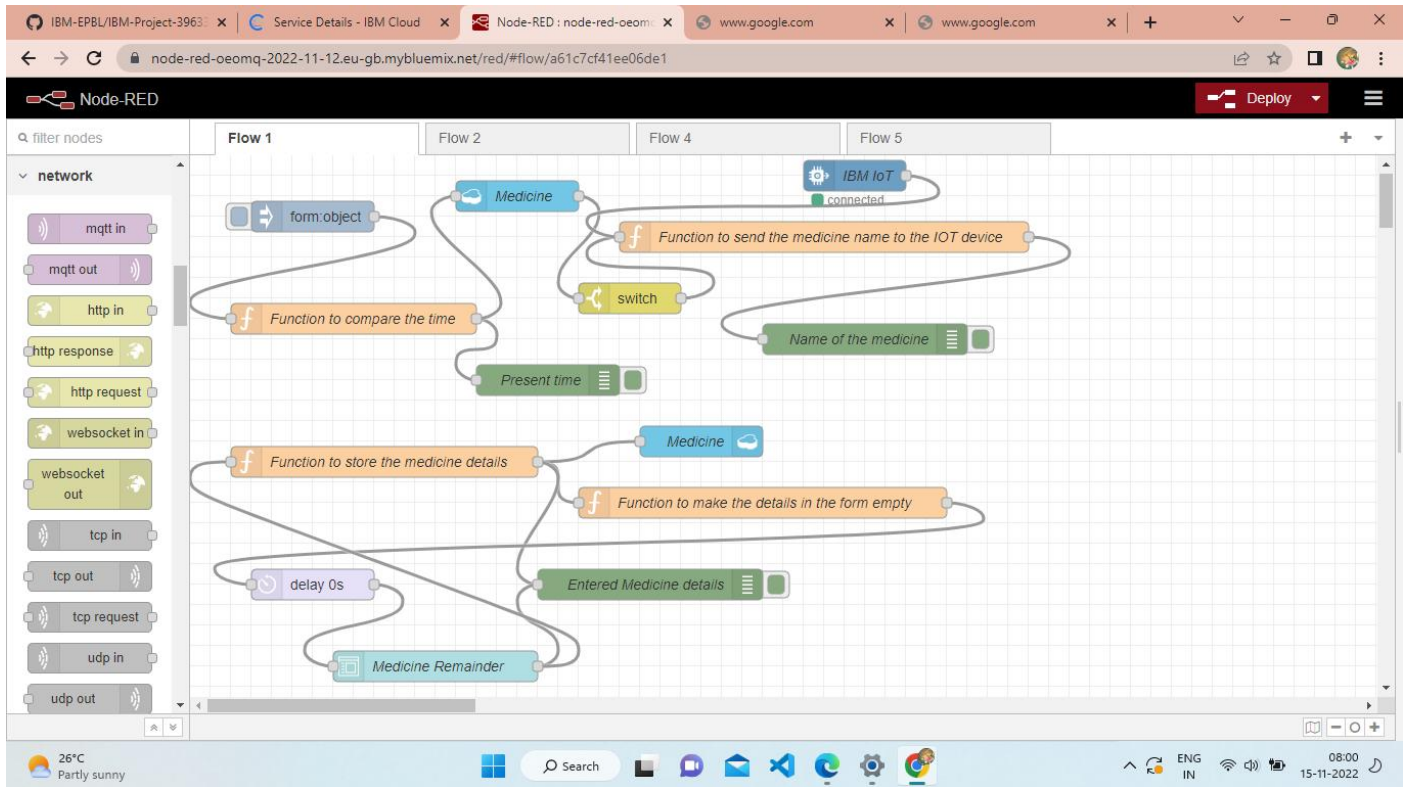
Setup On Start On Message On Stop

```
1 msg.payload={"command":msg.payload.name}
2 return msg;
```

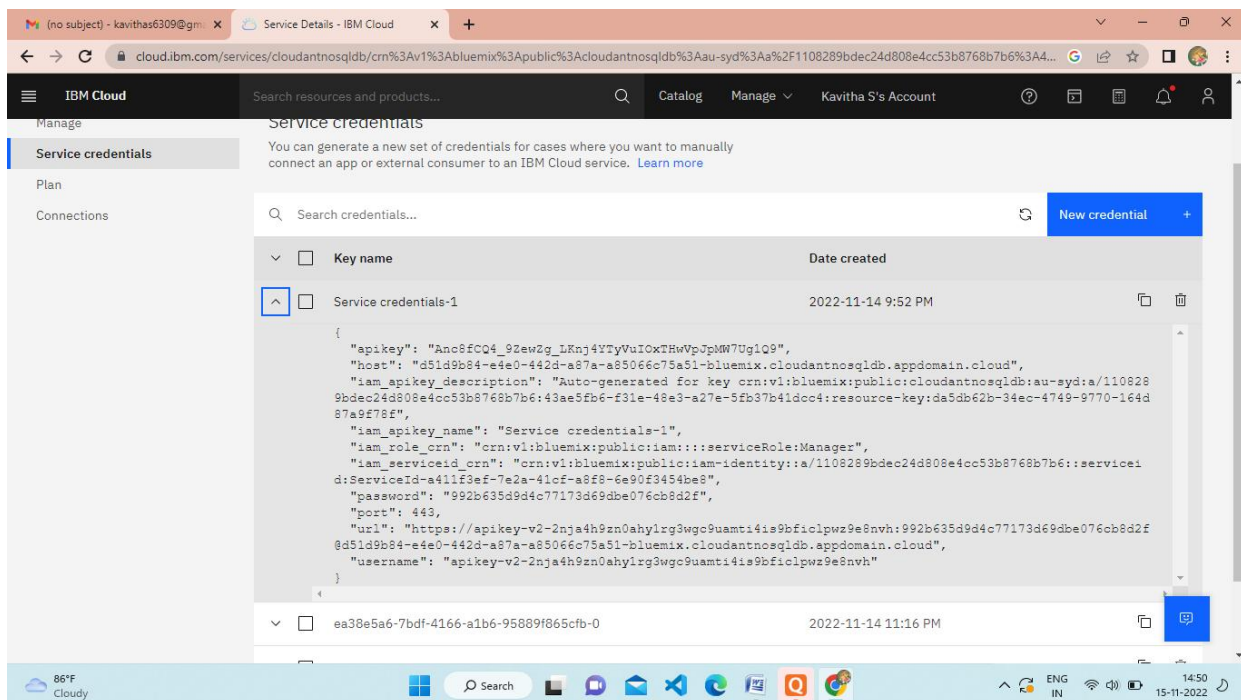
- Node flow for sending the name of the medicine to the IoT device



## Total node flow of the entire Web UI



After deploying the following are the results are stored in cloudant database



Sent Mail - kavithas6309@g...Service Details - IBM CloudCloudant Dashboard - datab...IBM Cloud DocsNode-RED : node-red-oeom...+

d51d9b84-e4e0-442d-a87a-a85066c75a51-bluemix.cloudant.com/dashboard.html#database/cloudant-db/\_all\_docs

cloudant-db

All Documents

Query

Permissions

Changes

Design Documents

Log Out

Document ID

Options

{ } JSON

Create Document

Table

Metadata

{ } JSON

	id	key	value
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<input type="checkbox"/>	doc2	doc2	{ "rev": "1-6c6b0c0372ea481095cf28...
<input type="checkbox"/>	doc3	doc3	{ "rev": "1-bcdc5ff9efca127a000f22d...

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