PROJECT DEVELOPMENT PHASE
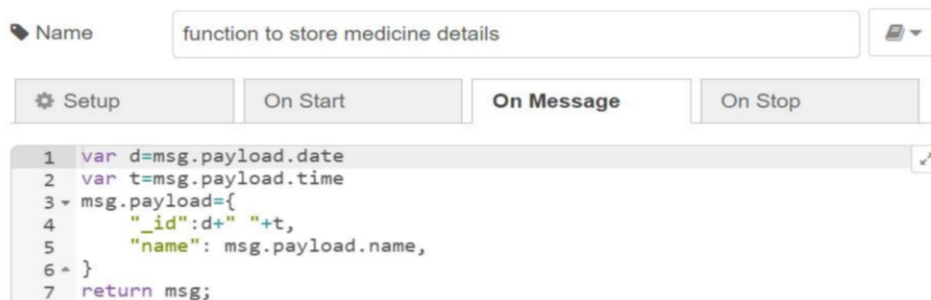
DELIVERY OF SPRINT 2

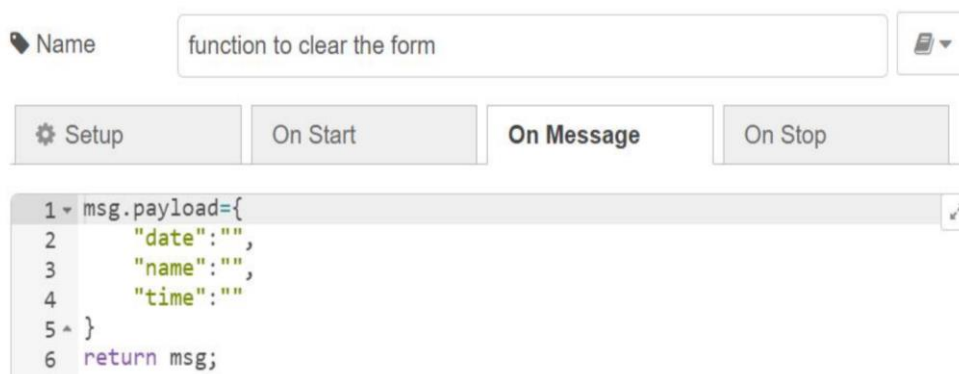| Date	11 NOV 2022
Team ID	PNT2022TMID07000
Project name	Personal Assistance For Seniors Who Are Self-Reliant
Team Members	Dharshini B, Indhirani S, Jayameenakshi S, Jayapriya G, Varshini S
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SPRINT II: Development of Web User Interface in NodeRED service of IBM:

i)Creating a form in Node-Red to enter medicine details:

➢ Web UI can be created by using form UI from Node-Red Dashboard
➢ The Dashboard can be installed from node-red palette
➢ The medicine name,intake time and day is entered in the form
➢ The medicine details are wired and stored to the IBM cloudant db database with the help of a function

The below function is used to reset the form after a delay to add more medicine

Node-Red Flow to create a form:

Web User Interface for entering medicine details:
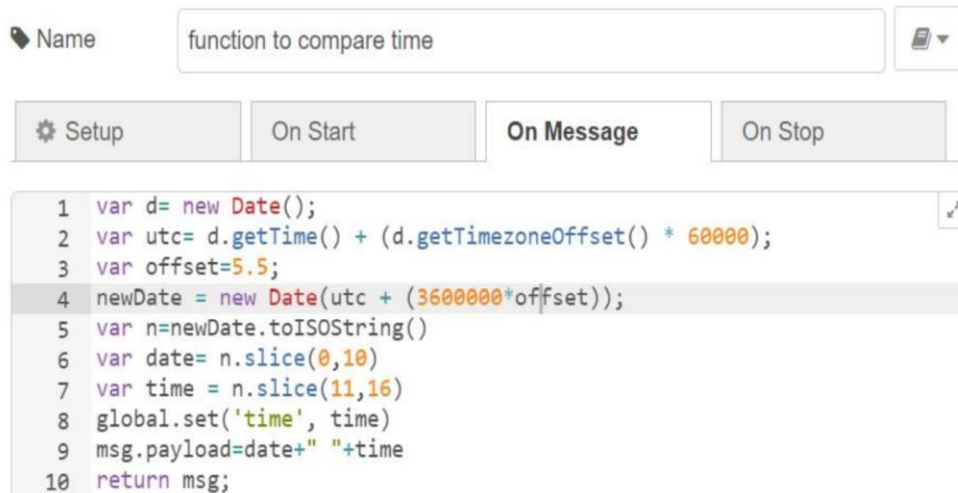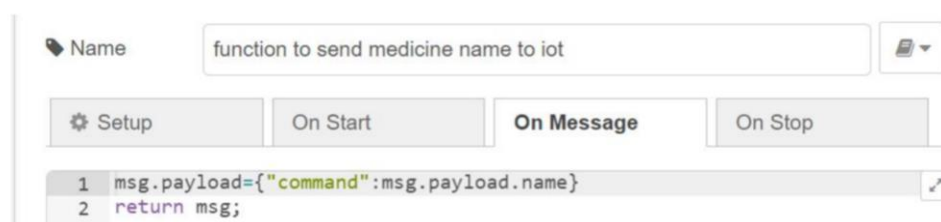
ii) Sending the medicine name at the appropriate time:

➢ A function is created to compare the present time with the scheduled time.
➢ The function to get the present time is shown below

Name	function to compare 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;
```

➢ After obtaining the present time, cloudant node is connected to the function in order search the scheduled time by _id
➢ The cloudant node is connected to the IBM cloudant database.
➢ If the present time and scheduled time in the database matches, then the name of the medicine will be sent to the IoT device using switch node and a function following that node

Name	function to send medicine name to iot

⚙ Setup	On Start	**On Message**	On Stop

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

Deploying Web UI:

The debug window in Node-Red depicts the medicine detail

11/19/2022, 11:59:03 PM   node: c8e3a2d93c7a7149
msg.payload : string[11]

 "Paracetomol"

11/19/2022, 11:59:13 PM   node: c8e3a2d93c7a7149
msg.payload : string[11]

 "Paracetomol"

11/19/2022, 11:59:23 PM   node: c8e3a2d93c7a7149
msg.payload : string[11]

 "Paracetomol"

11/19/2022, 11:59:33 PM   node: c8e3a2d93c7a7149
msg.payload : string[11]

 "Paracetomol"

11/19/2022, 11:59:43 PM   node: c8e3a2d93c7a7149
msg.payload : string[11]

 "Paracetomol"

11/19/2022, 11:59:53 PM   node: c8e3a2d93c7a7149
msg.payload : string[11]

 "Paracetomol"

➢ The following image shows the details of the medicine which is stored in the cloudant db under the medicine database.

> ➤ The following image shows the details of the medicine in the medicine database in JSON form

> ➤ The medicine reminder operation is depicted below:
>   > ✓ The medicine name Cetirizine and it's intake time 09:00 and date 19.11.2022 is stored in the database.

11/20/2022, 12:38:58 AM   node: 775a8b8f258cbbef

msg.payload : Object

▼ object

    name: "Cetrizine"

    time: "1969-12-31T19:09:00.000Z"

    date: "2022-11-19T18:30:00.000Z"