

PROJECT
DEVELOPMENT PHASE
DELIVERY OF SPRINT 2

Team ID	PNT2022TMID11112
Project Name	Project – Personal Assistance for senior citizens who are self-reliant
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SPRINT II: Development of Web User Interface in NodeRED service of IBM

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.**
 - The Web UI could be accomplished by creating a form by installing nodereddashboards in the manage palette option of the NodeRED platform
 - Form allows the user to enter the medicine name, time in which the medicine has to be taken and the day.

- The medicine details entered in the form are stored in the cloudant db database service of the IBM by writing a suitable function

FUNCTION TO MAKE THE DETAILS IN THE FORM EMPTY

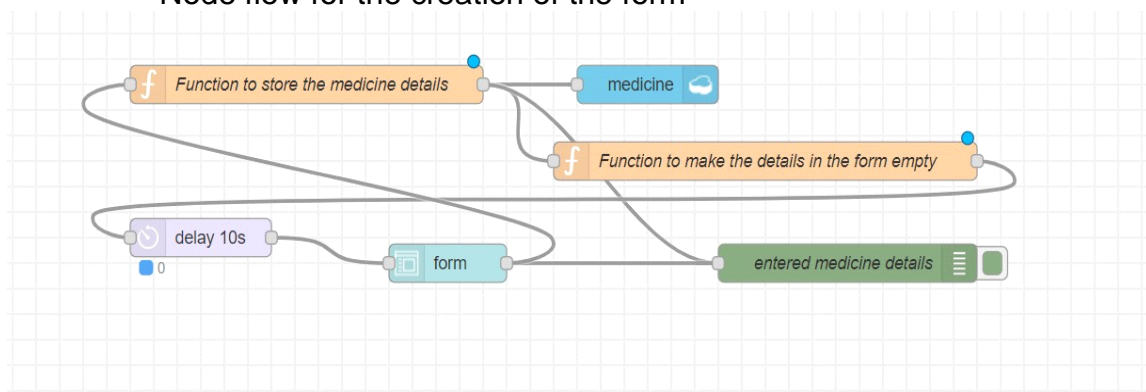
```
msg.payload={
  "date": "",
  "name": "",
  "time": ""
}
return msg;
```

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

FUNCTION TO MAKE THE DETAILS IN THE FORM EMPTY

```
msg.payload={
  "date": "",
  "name": "",
  "time": ""
}
return msg;
```

- Node flow for the creation of the form



- UI for entering the medicine details

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

FUNCTION TO COMPARE THE TIME

```

var d=new Date();
var utc=d.getTime()+ (d.getTimeZoneOffset()*60000);
var offset=5.5;
newDate=new Date(utc + (3600000*offset));
var n=newDate.toISOString()
var date = n.slice(0,10)
var time=n.slice(11,16)
global.set('time', time)
msg.payload=date+" "+time
return msg

```

- After obtaining the present time, cloudant in node is connected to it in order to facilitate searching by _id
- If the present time and time in the database matches, then the name of the medicine will be sent to the IoT device using switch node and function following that node

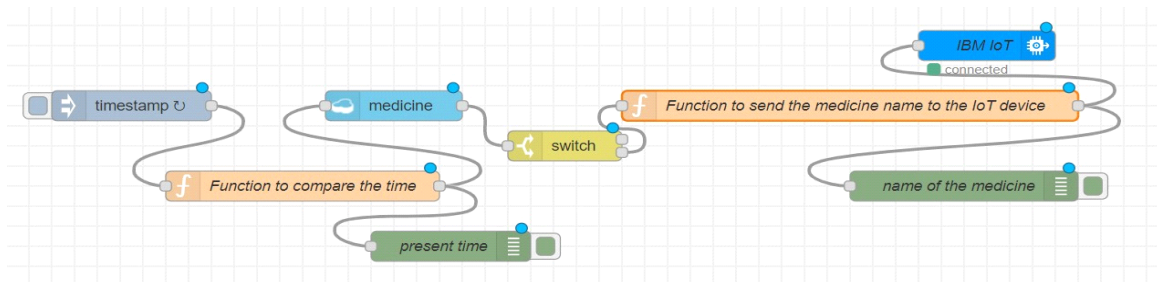
Function to send the medicine name to the IoT device

```

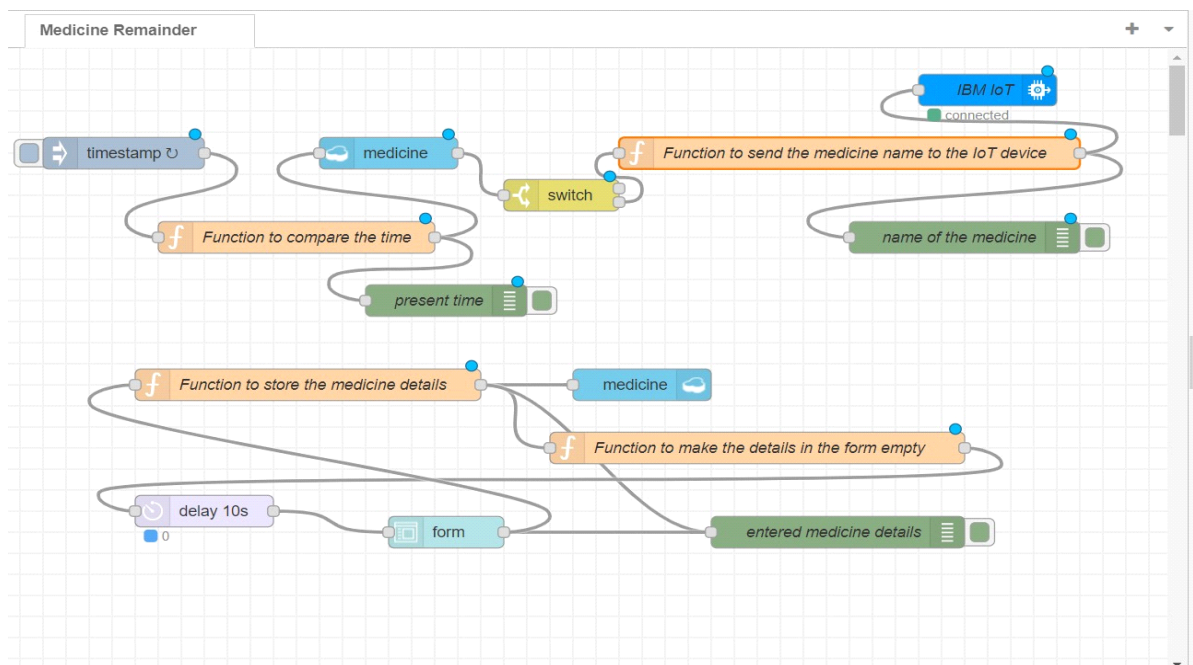
msg.payload={"command":msg.payload.name}

return msg;

```



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



- Total node flow of the entire Web UI

*****END OF REPORT*****