PROJECT DEVELOPMENT PHASE DELIVERY OF SPRINT 2

Date	06 November 2022
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

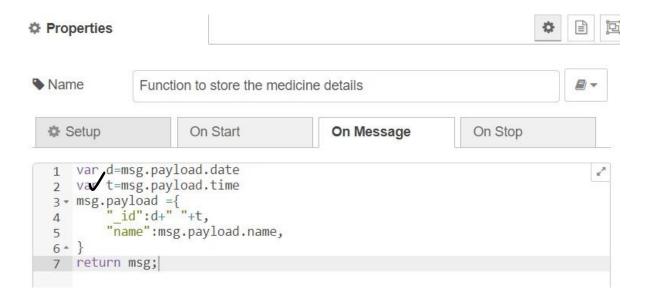
Outline of Sprint 2

This sprint delivery document contains the following,

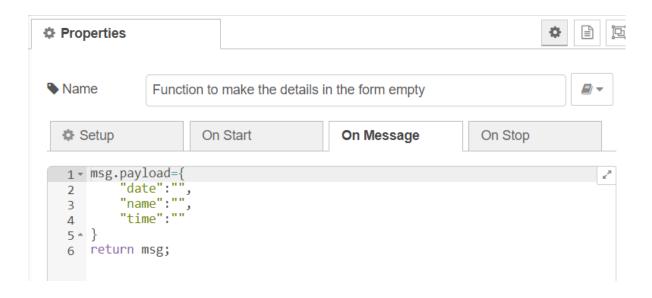
- 1)To create a form dashboard to enter the medicine details.
- 2)To send the medicine name at the right time to the IoT device.
- 3)Total node flow of the entire Web UI.
- 4)The results of the web UI after deploying.

1) To create a form dashboard to enter the medicine details.

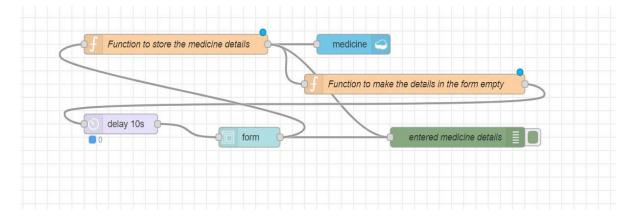
- The Web UI could be accomplished by creating a form by installing nodered dashboard in the manage palate option of the NodeRED platform
- Form allows the user to enter the medicine name, time in which the medicine has to be taken and the day.
- The medicine details entered in the form are stored in the cloudant db database service of the IBM by writing a suitable function



• 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

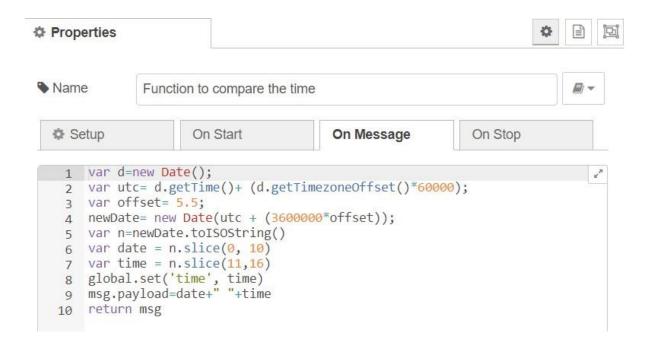


• UI for entering the medicine details



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

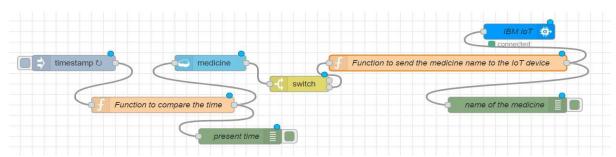
- To accomplish this we need to write a function to compare the present time with the time entered in the form.
- The following function will obtain the present time



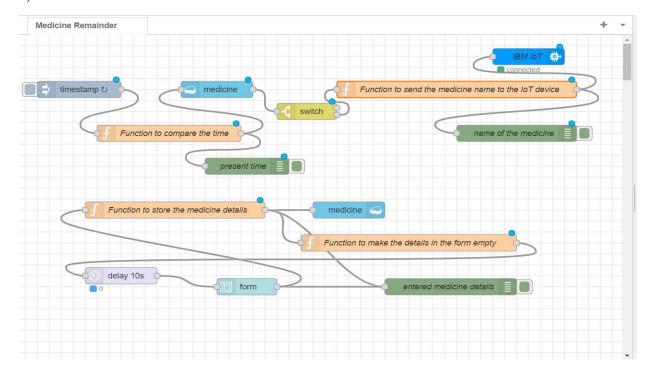
- After obtaining the present time, cloudant in node is connected to it in order facilitate searching by _id
- If the present time and time in the database matches, then the name of the medicine will be sent to the IoT device using switch node and function following that node



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



3)Total node flow of the entire Web UI



4) After deploying the following are the results

• The following image shows the details of the medicine entered

```
11/7/2022, 1:11:00 PM node: entered medicine details
msg.payload: Object
 ▶ { name: "Ofloxacin", time: "13:12",
date: "2022-11-07" }
11/7/2022, 1:11:01 PM node: entered medicine details
msg.payload : Object
 ▶{ _id: "2022-11-07 13:12", name:
 "Ofloxacin" }
11/7/2022, 1:11:02 PM node: present time
msg.payload : string[16]
"2022-11-07 13:11"
11/7/2022, 1:11:03 PM node: 7b271549d44feb08
msg: string[18]
 "couch returned 404"
11/7/2022, 1:11:32 PM node: entered medicine details
msg.payload : Object
 ▶ { name: "Itraconazole", time:
 "13:14", date: "2022-11-07" }
11/7/2022, 1:11:32 PM node: entered medicine details
msg.payload: Object
 ▶{ _id: "2022-11-07 13:14", name:
 "Itraconazole" }
```

• The details of the medicine will be stored in the cloudant db under medicine database.

• The following image shows the details of the medicine in the medicine database in JSON format



- The following image shows the name of the medicine which is sent to the IoT device at the prescribed time
- The medicine name Ofloxacin is sent to the IoT device as a command at the time 1:12PM

```
11/7/2022, 1:12:01 PM node: present time msg.payload: string[16]

"2022-11-07 13:12"

11/7/2022, 1:12:02 PM node: name of the medicine msg.payload: Object

• { command: "Ofloxacin" }
```

• The medicine name Itraconazole is sent to the IoT device as a command at the time 1:14PM

```
11/7/2022, 1:14:01 PM node: present time msg.payload: string[16]

"2022-11-07 13:14"

11/7/2022, 1:14:01 PM node: name of the medicine msg.payload: Object

• { command: "Itraconazole" }
```