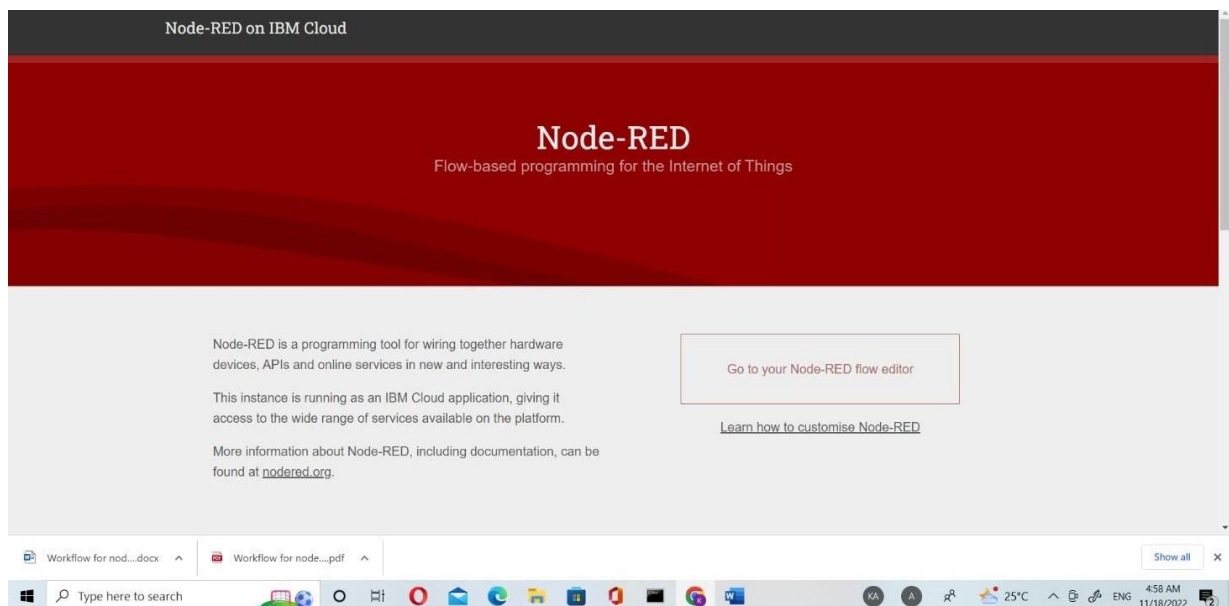


TEAM ID : PNT2022TMID18843

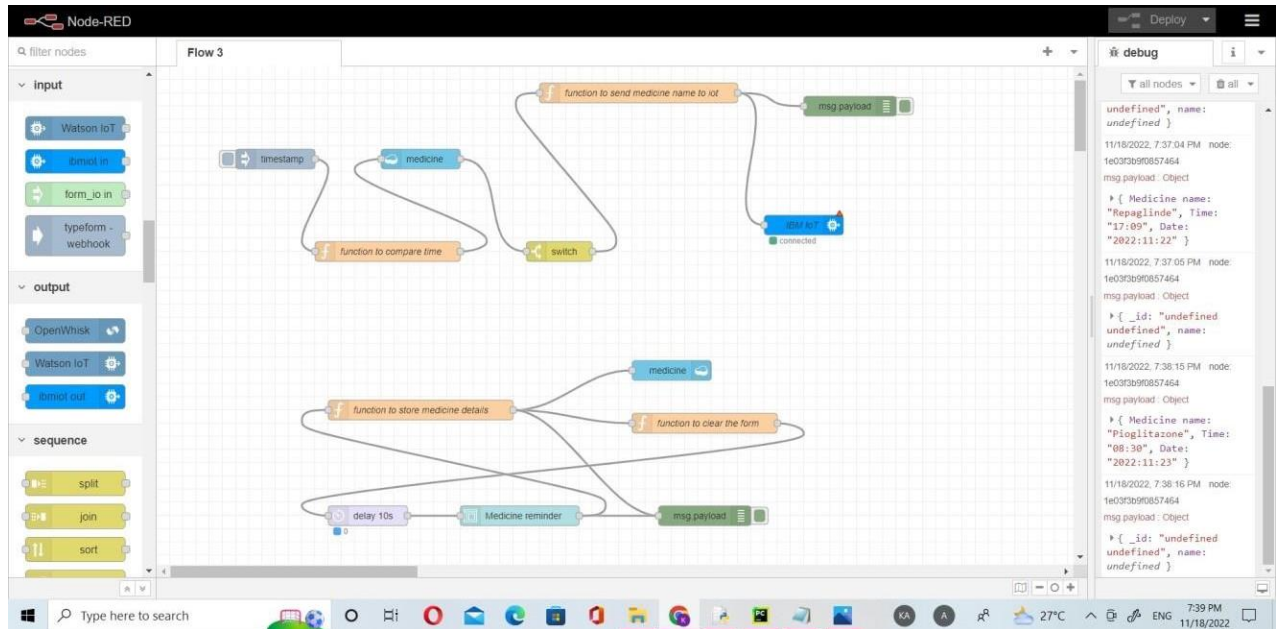
**PROJECT NAME: PERSONAL ASSISTANCE FOR SENIORS WHO
ARE SELF RELIANT**

WORKFLOW FOR IOT SCENARIOS
USING NODE RED (CREATING
WEB UI)

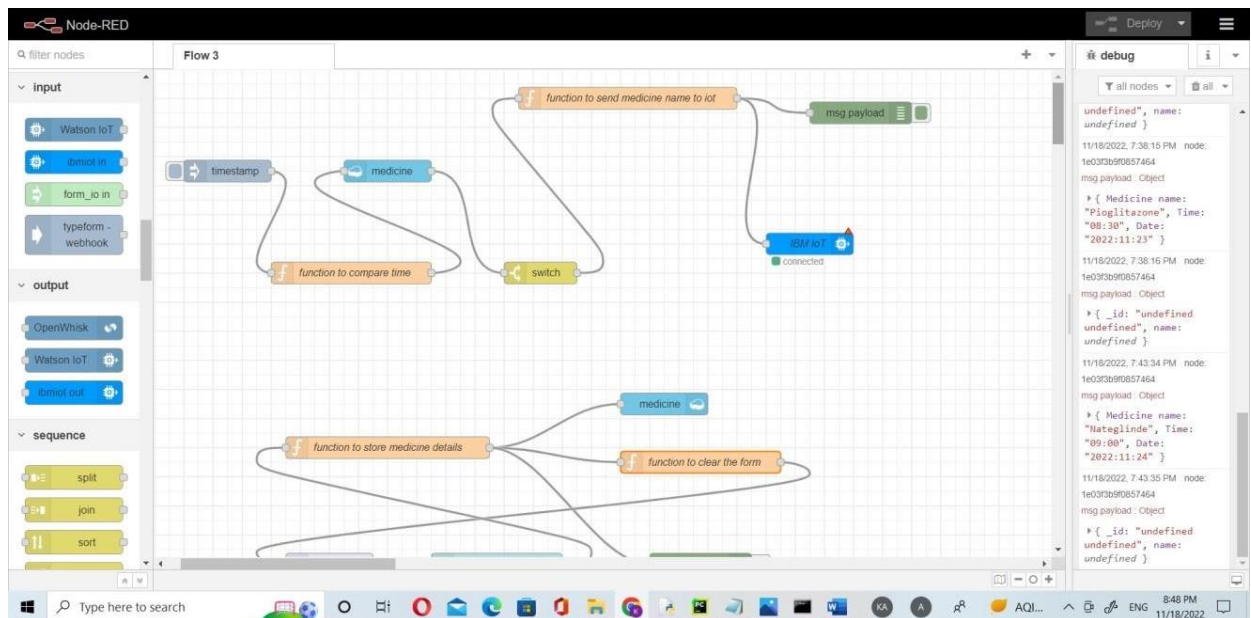
NODE-RED INSTALLATION:



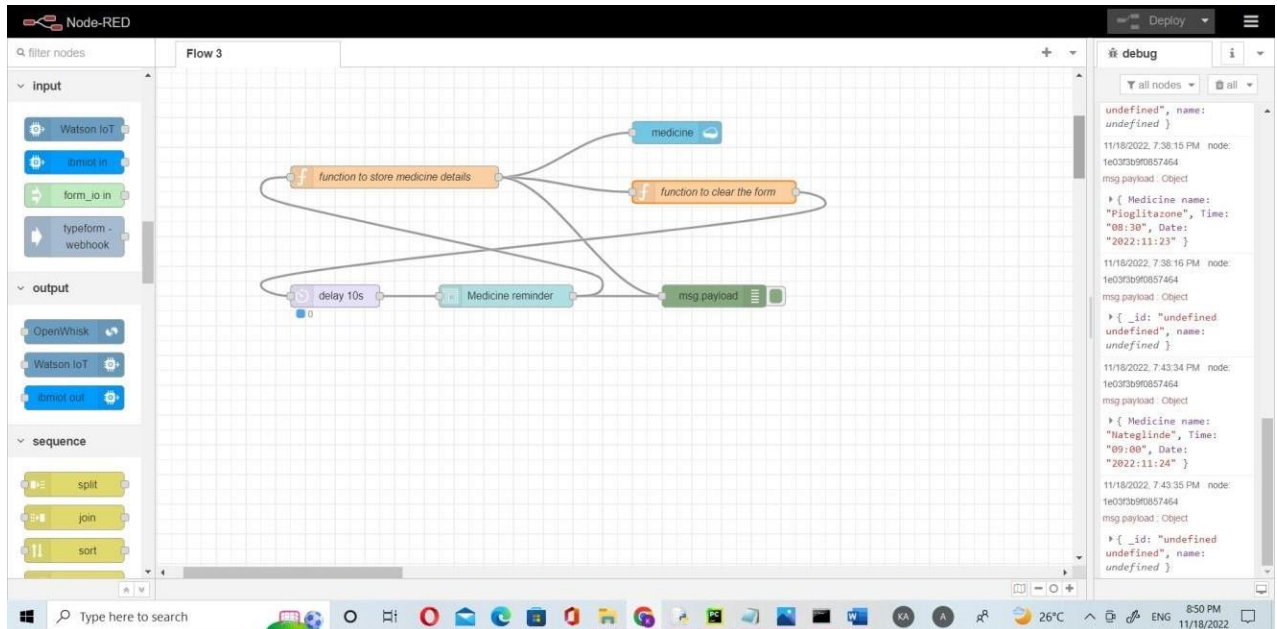
CREATING MEDICINE REMINDER FORM: (COMPLETE)



SENDING MEDICINE NAME AT APPROPRIATE TIME:

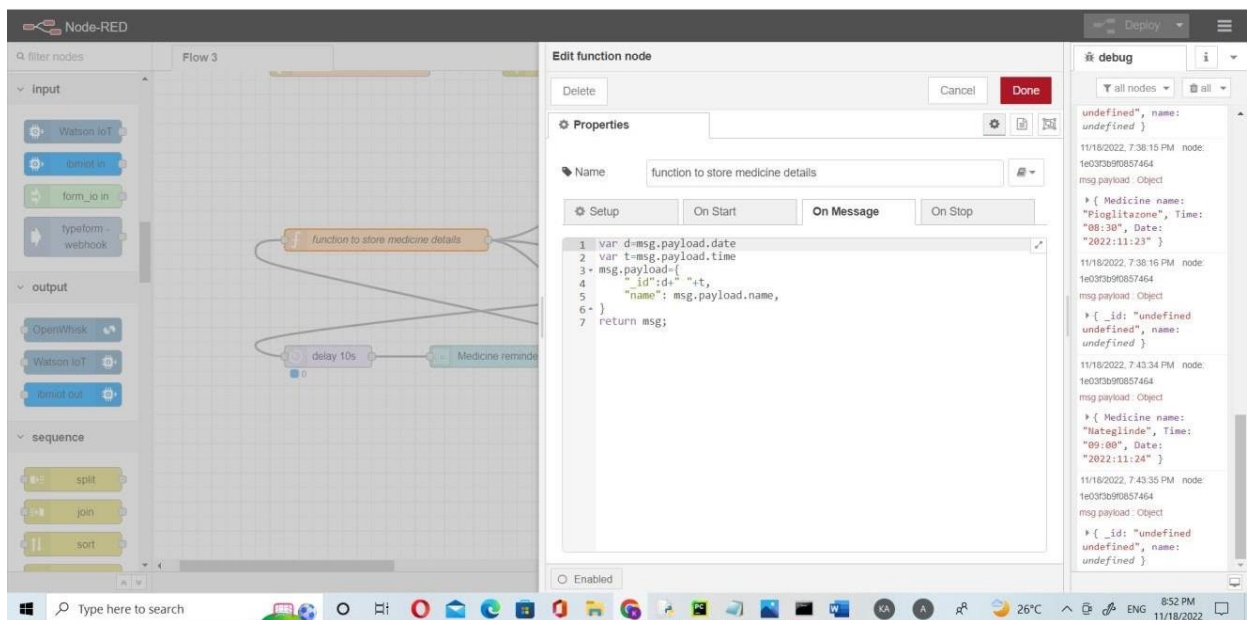


TO ENTER MEDICINE DETAILS:



FUNCTIONS:

1. FUNCTION TO STORE MEDICINE DETAILS



2. FUNCTION TO CLEAR THE FORM

The screenshot shows the Node-RED web interface. On the left, the 'input' tab is selected, showing nodes like 'Watson IoT', 'form_io in', and 'typeform - webhook'. The main workspace displays a flow with a function node labeled 'function to store medicine details' and a 'delay 10s' node. The 'Edit function node' panel is open, showing the function name 'function to clear the form' and the following code:

```
1 msg.payload={
2   "date": "",
3   "name": "",
4   "time": ""
5 }
6 return msg;
```

The 'debug' console on the right shows the message payload as an object with 'date', 'name', and 'time' fields, all set to empty strings.

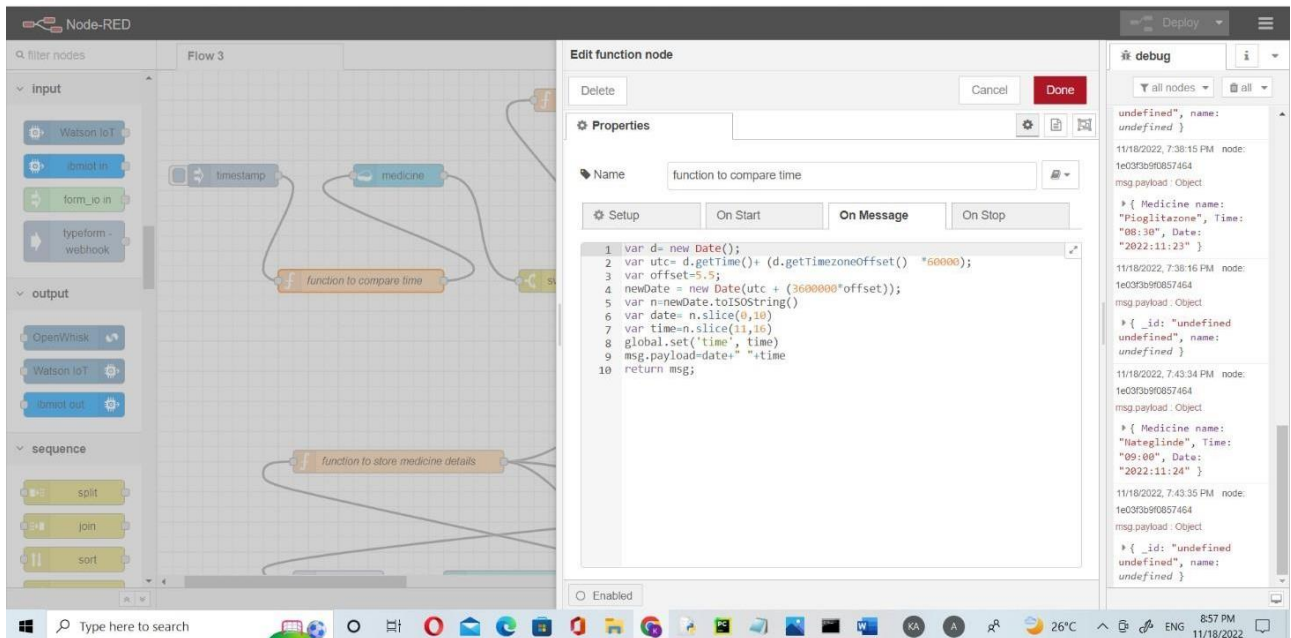
3. FUNCTION TO SEND MEDICINE NAME TO IOT

The screenshot shows the Node-RED web interface. On the left, the 'input' tab is selected, showing nodes like 'Watson IoT', 'form_io in', and 'typeform - webhook'. The main workspace displays a flow with a function node labeled 'function to compare time' and a 'timestamp' node. The 'Edit function node' panel is open, showing the function name 'function to send medicine name to iot' and the following code:

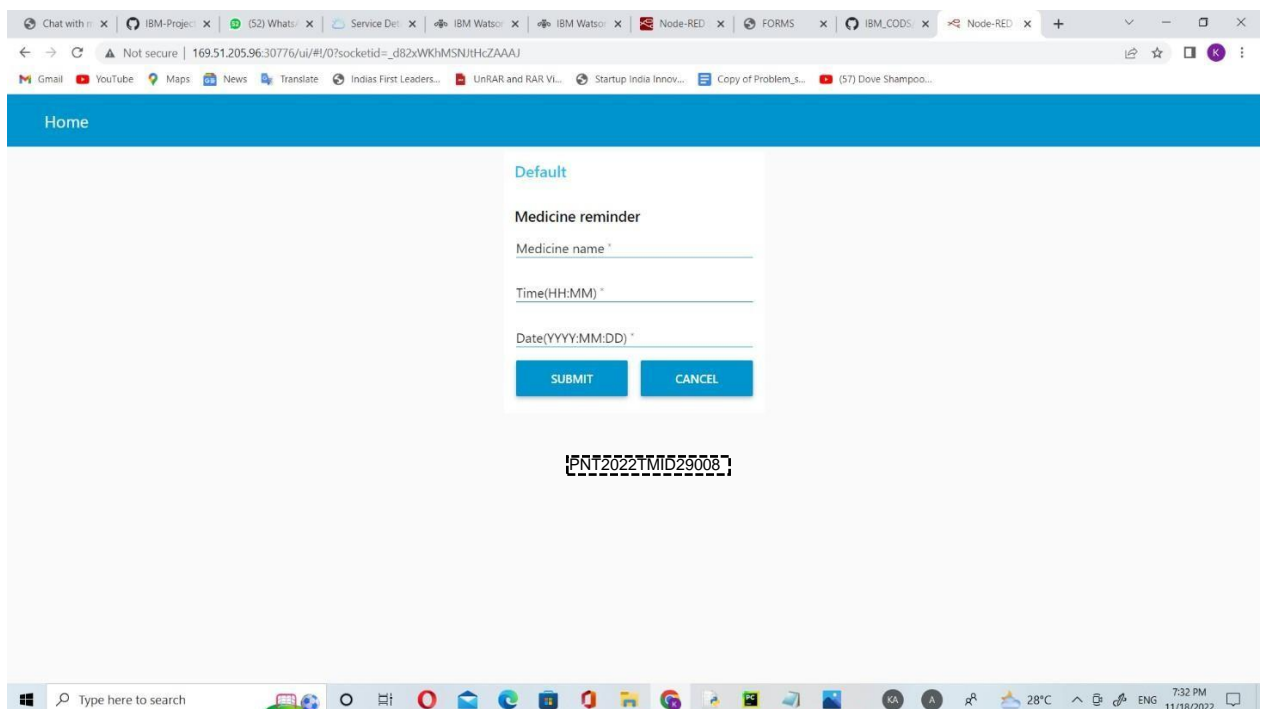
```
1 msg.payload={"command":msg.payload.name}
2 return msg;
```

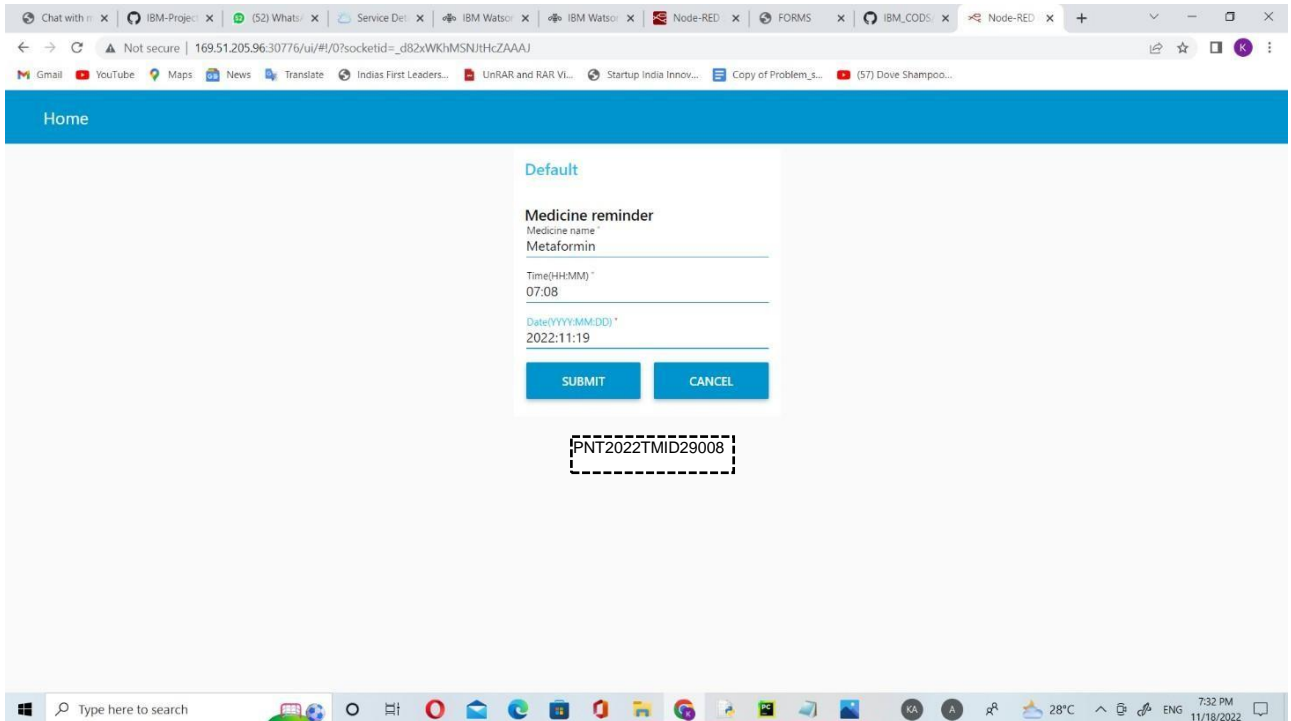
The 'debug' console on the right shows the message payload as an object with a 'command' field containing the medicine name.

4.FUNCTION TO COMPARE TIME



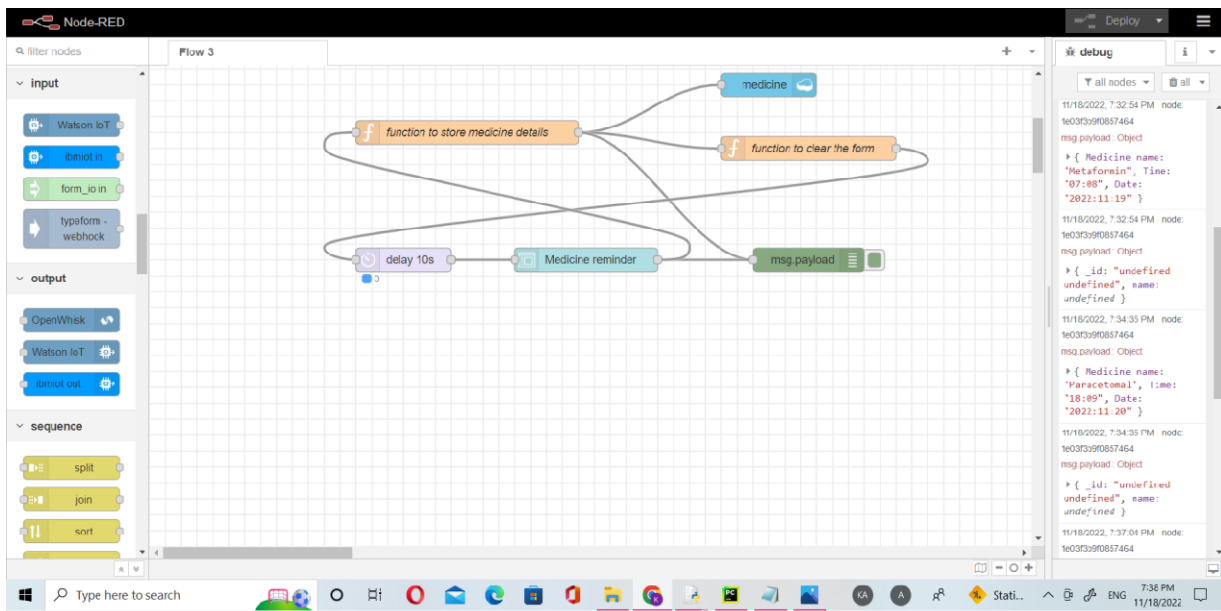
WEB UI(MEDICINE REMINDER PAGE):

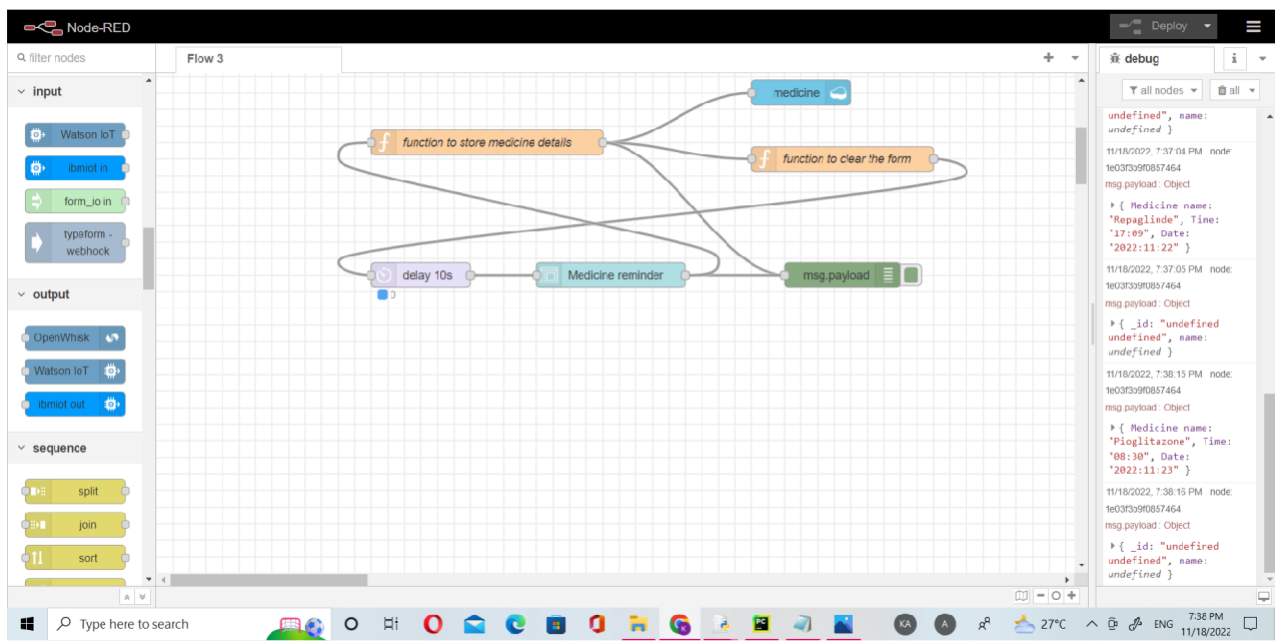




DEBUG WINDOW:

The details of medicine name, date and time that are entered are shown in debug window.





MEDICINE DATABASE IN CLOUDANT DB:

The screenshot shows the Cloudant database interface for the 'medicine' collection. The left sidebar contains navigation options: All Documents, Query, Permissions, Changes, and Design Documents. The main area displays a table view of the documents. The table has two columns: '_id' and 'name'. The data is as follows:

_id	name
Time:07:08 Date:2022:11:19	{ "name": "metformin" }
Time:08:30 Date:2022:11:23	{ "name": "Pioglitazone" }
Time:09:00 Date:2022:11:24	{ "name": "Nateglinide" }
Time:17:09 Date:2022:11:22	{ "name": "Repaglinde" }
Time:18:09 Date:2022:11:18	{ "name": "paracetamol" }

The bottom of the interface shows 'Showing 2 of 3 columns. Show all columns.' and 'Showing document 1 - 5. Documents per page: 20'.

medicine

Document ID

Options JSON

Create Document

Table Metadata JSON

Id "Time:07:08 Date:2022-11-19"

```
{
  "id": "Time:07:08 Date:2022-11-19",
  "key": "Time:07:08 Date:2022-11-19",
  "value": {
    "rev": "2-c64f3838b765b1381da38a69c438d8d"
  },
  "doc": {
    "_id": "Time:07:08 Date:2022-11-19",
    "_rev": "2-c64f3838b765b1381da38a69c438d8d",
    "name": {
      "name": "metformin"
    }
  }
}
```

Id "Time:08:30 Date:2022-11-23"

```
{
  "id": "Time:08:30 Date:2022-11-23",
  "key": "Time:08:30 Date:2022-11-23",
  "value": {
    "rev": "1-471feeb2e492ac0797f8bca24c53fe9f"
  },
  "doc": {
    "_id": "Time:08:30 Date:2022-11-23",
    "name": {
      "name": "metformin"
    }
  }
}
```

Showing document 1 - 5. Documents per page: 20

Log Out

Type here to search

27°C

ENG

7:59 PM

11/18/2022

IBM WATSON IOT PLATFORM:

IBM Watson IoT Platform

ajosephthons.231a@pages.in

11/18/2022

Add Device

Device ID Status Device Type Class ID Date Added Descriptive Location

12345	Disconnected	Intensor	Device	17 Nov 2022 20:29	
-------	--------------	----------	--------	-------------------	--

Identity Device Information Recent Events State Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
event_1	("Medicine name":"Nateglindo","Time":"09:00",...	json	a few seconds ago
event_1	("Medicine name":"Pioglitazone","Time":"08:30",...	json	a minute ago
event_1	("Medicine name":"Repaglindo","Time":"17:05",...	json	2 minutes ago
event_1	("Medicine name":"Paracetamol","Time":"13:09",...	json	2 minutes ago
event_1	("Medicine name":"Metformin","Time":"07:08",...	json	3 minutes ago

1 Simulation running

Type here to search

27°C

ENG

7:44 PM

11/18/2022

SIGNUP FORM IN NODE RED:

In debug window the details are stored.

The screenshot shows the Node-RED web interface in a browser. The main workspace displays a flow with the following nodes: a `[get]/signup` node, a `function 2` node, a `function 3` node, a `delay 5s` node, a `signup` node, and a `debug 1` node. The flow starts with the `[get]/signup` node, which connects to `function 2`. `function 2` connects to `function 3`, which then connects to the `debug 1` node. A `delay 5s` node is also connected to the `signup` node, which in turn connects to `function 3`. The left sidebar shows various nodes categorized under 'network'. The right sidebar shows the 'debug' console with a list of messages. The messages are as follows:

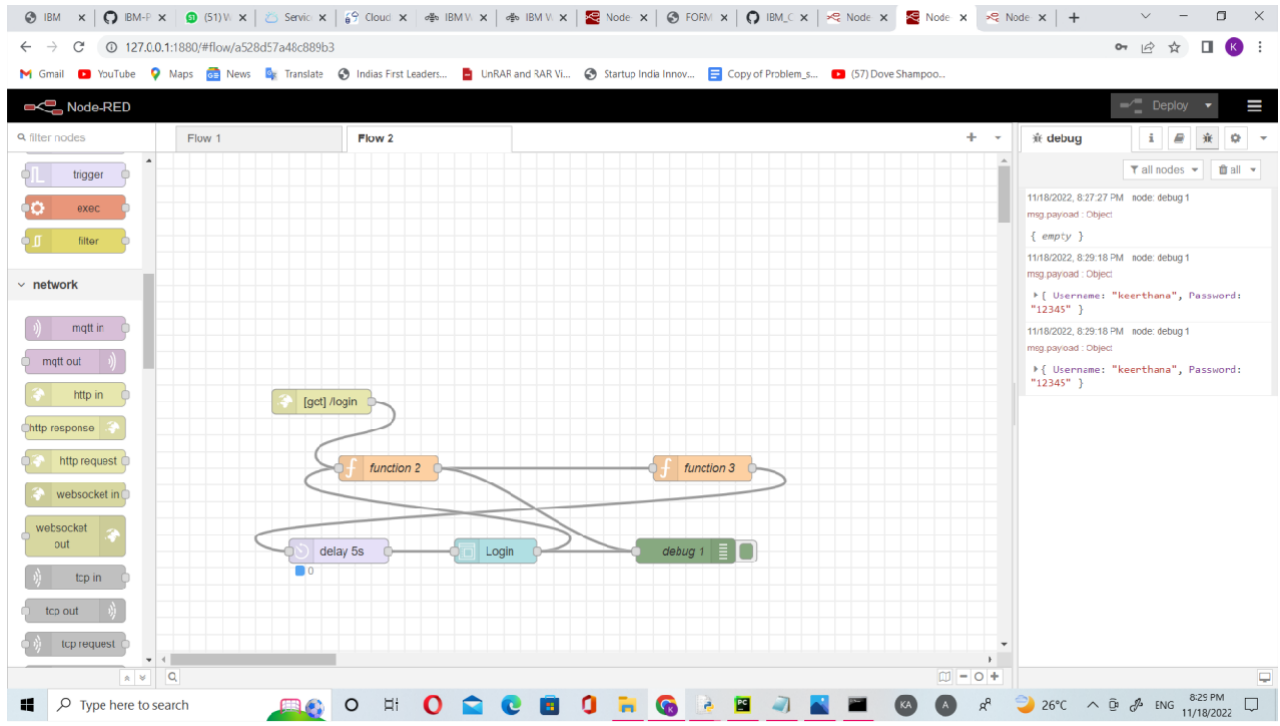
Time	Node	Message
11/18/2022, 8:37:27 PM	node: debug 1	msg payload: Object
11/18/2022, 8:39:18 PM	node: debug 1	{ empty: }
11/18/2022, 8:39:18 PM	node: debug 1	msg payload: Object
11/18/2022, 8:39:18 PM	node: debug 1	{ Username: "keerthana", Password: "12345" }
11/18/2022, 8:39:18 PM	node: debug 1	msg payload: Object
11/18/2022, 8:39:18 PM	node: debug 1	{ Username: "keerthana", Password: "12345" }
11/18/2022, 8:37:43 PM	node: debug 1	msg payload: Object
11/18/2022, 8:37:43 PM	node: debug 1	{ Username: "keerthana", Password: "12345", email: "keertnanaanandh4@gmail.com", age: "20" }
11/18/2022, 8:37:43 PM	node: debug 1	msg payload: Object
11/18/2022, 8:37:43 PM	node: debug 1	{ Username: "keerthana", Password: "12345", email: "keertnanaanandh4@gmail.com", age: "20" }

WEBUI(SIGNUP):

The screenshot shows a web browser displaying a signup form. The form is titled "Signup" and has a "Default" tab. The form fields are:

- Username:
- Password:
- Email:
- Age:

Below the form are two buttons: "SUBMIT" and "CANCEL". Below the buttons is a text box containing the string "PNT2022TMD29008".



The screenshot shows a web browser displaying a login form. The form has a title 'Login' and a 'Default' section. It contains two input fields: 'Username' (filled with 'keerthana') and 'Password' (filled with '*****'). Below the fields are two buttons: 'SUBMIT' and 'CANCEL'. The browser's address bar shows the URL '127.0.0.1:1880/#/login?socketId=5aWJ/RQVNg8uph:MinAAAA'. A dashed box highlights the text 'PNT2022TMID29008' below the form.

LOGIN FORM USING NODE RED:

