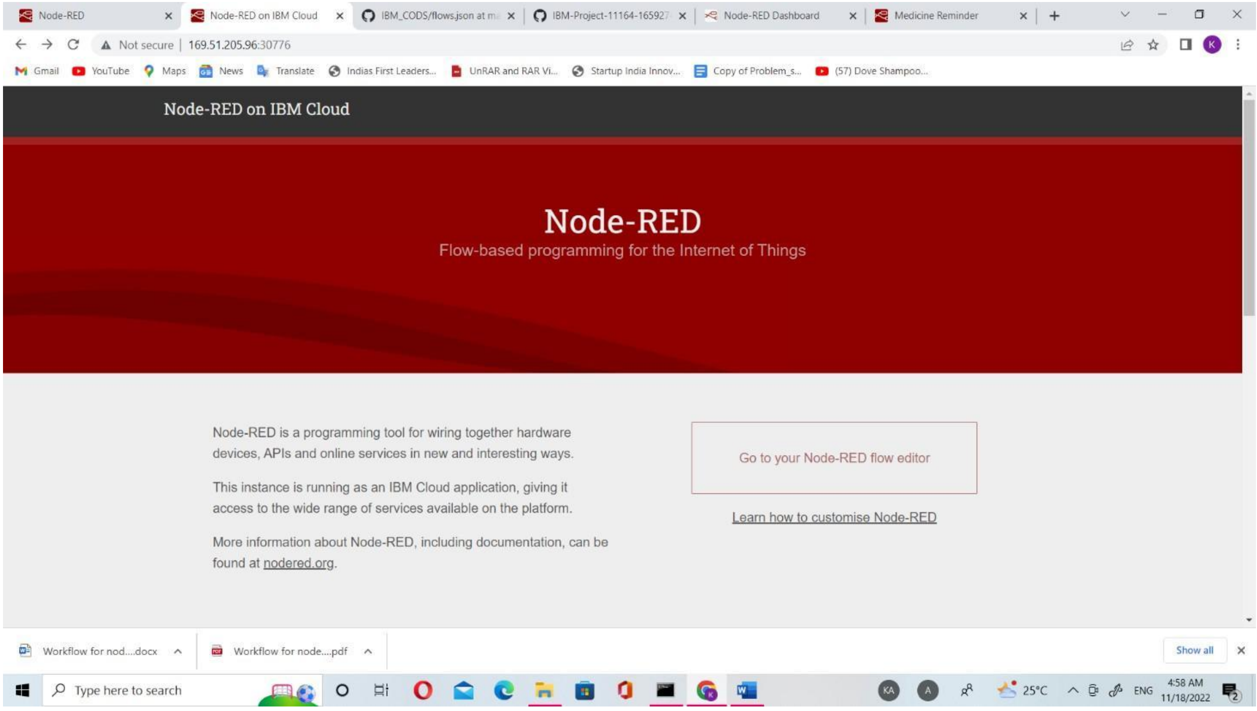
SPRINT DELIVERY – 3

TEAM ID : PNT2022TMID52021
PROJECT NAME: PERSONAL ASSISTANCE FOR SENIORS WHO ARESELF RELIANT

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

NODE-RED INSTALLATION:



Node-RED on IBM Cloud

Node-RED

Flow-based programming for the Internet of Things

Node-RED is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways.

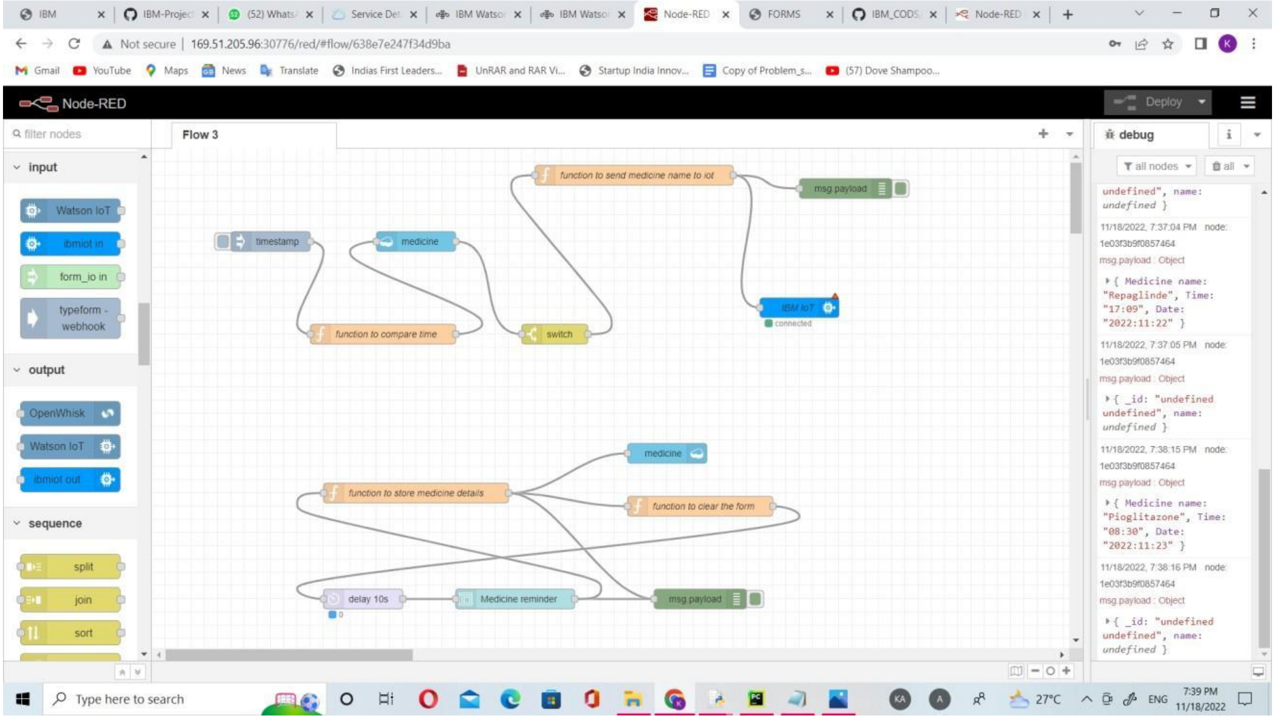
This instance is running as an IBM Cloud application, giving it access to the wide range of services available on the platform.

More information about Node-RED, including documentation, can be found at nodered.org.

Go to your Node-RED flow editor

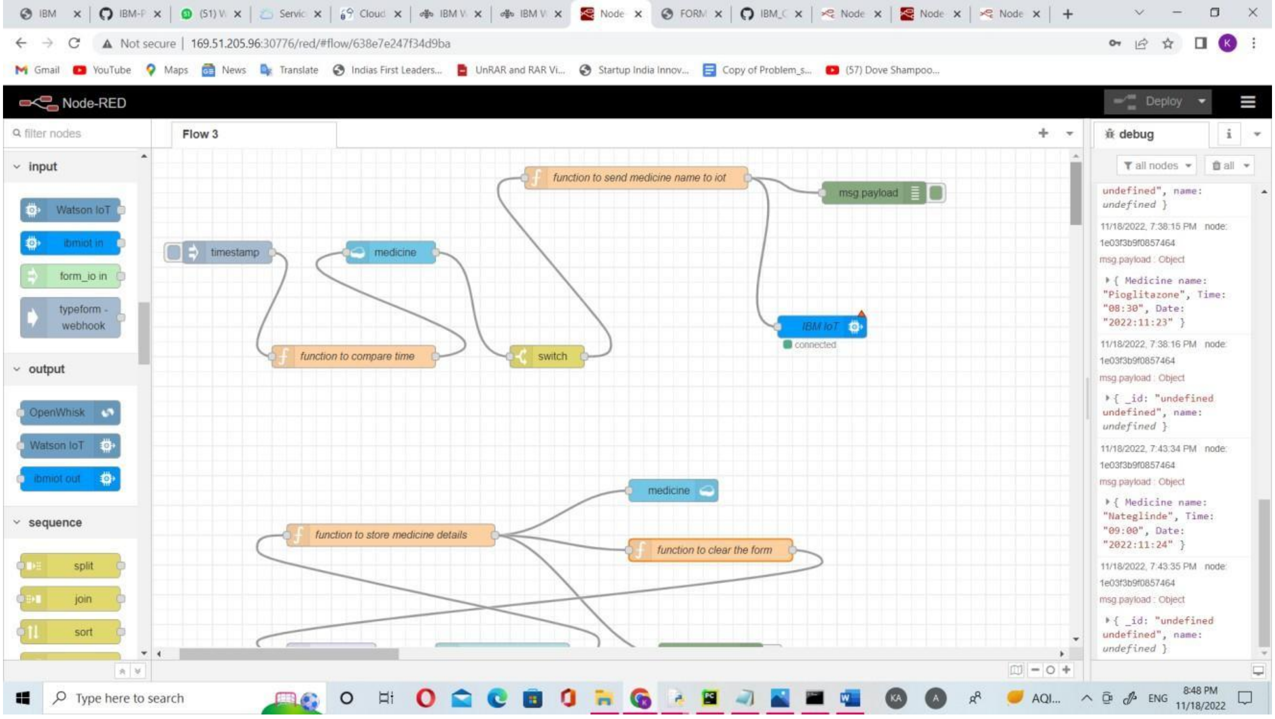
Learn how to customise Node-RED

CREATING MEDICINE REMINDER FORM: (COMPLETE)



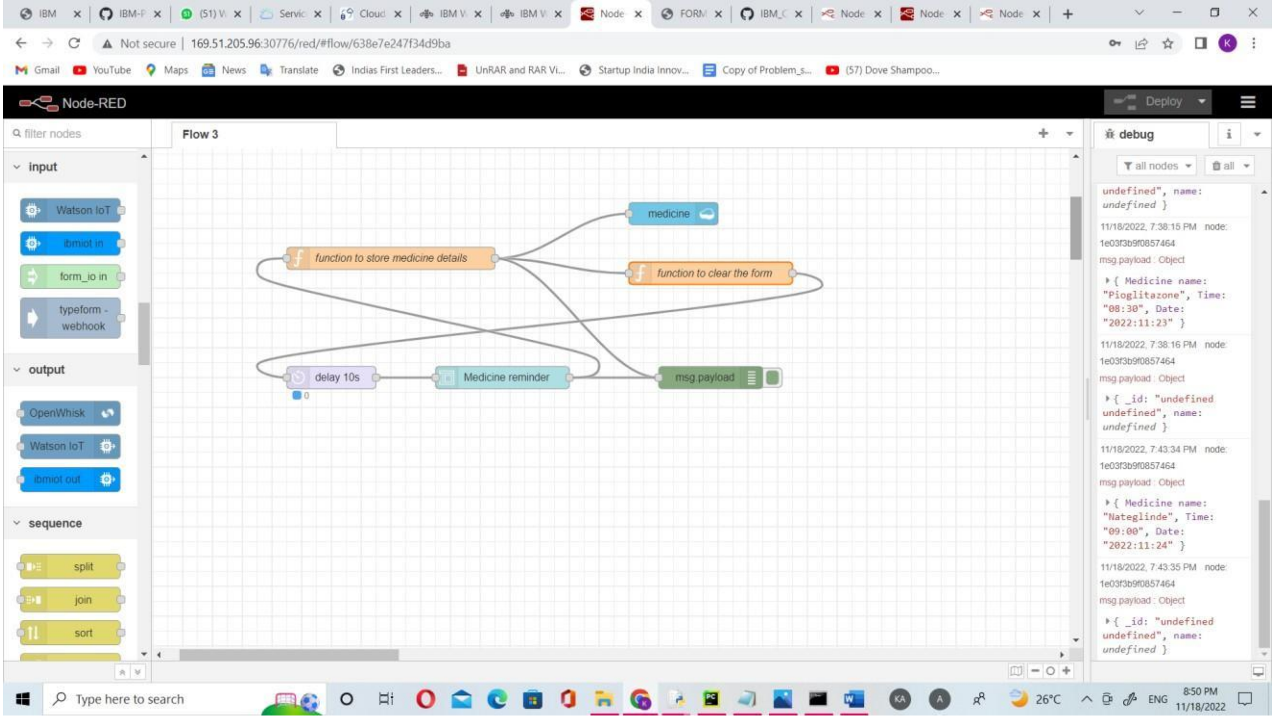
```
undefined", name:
undefined }
11/18/2022, 7:37:04 PM   node:
1e03f3b9f0857464
msg.payload : Object
▸{ Medicine name:
"Repaglinde", Time:
"17:09", Date:
"2022:11:22" }
11/18/2022, 7:37:05 PM   node:
1e03f3b9f0857464
msg.payload : Object
▸{ _id: "undefined
undefined", name:
undefined }
11/18/2022, 7:38:15 PM   node:
1e03f3b9f0857464
msg.payload : Object
▸{ Medicine name:
"Pioglitazone", Time:
"08:30", Date:
"2022:11:23" }
11/18/2022, 7:38:16 PM   node:
1e03f3b9f0857464
msg.payload : Object
▸{ _id: "undefined
undefined", name:
undefined }
```

SENDING MEDICINE NAME AT APPROPRIATE TIME:



```
undefined", name:
undefined }
11/18/2022, 7:38:15 PM   node:
1e03f3b9f0857464
msg.payload : Object
▸{ Medicine name:
"Pioglitazone", Time:
"08:30", Date:
"2022:11:23" }
11/18/2022, 7:38:16 PM   node:
1e03f3b9f0857464
msg.payload : Object
▸{ _id: "undefined
undefined", name:
undefined }
11/18/2022, 7:43:34 PM   node:
1e03f3b9f0857464
msg.payload : Object
▸{ Medicine name:
"Nateglinde", Time:
"09:00", Date:
"2022:11:24" }
11/18/2022, 7:43:35 PM   node:
1e03f3b9f0857464
msg.payload : Object
▸{ _id: "undefined
undefined", name:
undefined }
```

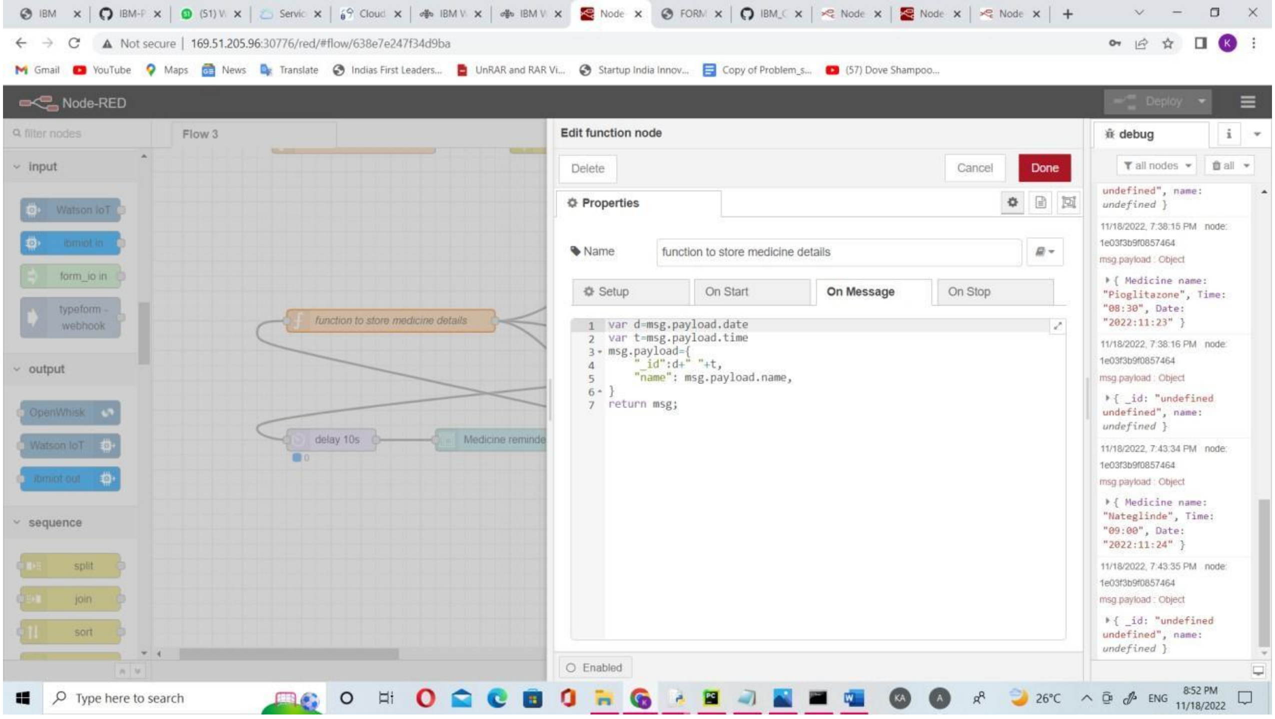
TO ENTER MEDICINE DETAILS:



```
undefined", name:
undefined }
11/18/2022, 7:38:15 PM  node:
1e03f3b9f0857464
msg.payload : Object
▸{ Medicine name:
"Pioglitazone", Time:
"08:30", Date:
"2022:11:23" }
11/18/2022, 7:38:16 PM  node:
1e03f3b9f0857464
msg.payload : Object
▸{ _id: "undefined
undefined", name:
undefined }
11/18/2022, 7:43:34 PM  node:
1e03f3b9f0857464
msg.payload : Object
▸{ Medicine name:
"Nateglinde", Time:
"09:00", Date:
"2022:11:24" }
11/18/2022, 7:43:35 PM  node:
1e03f3b9f0857464
msg.payload : Object
▸{ _id: "undefined
undefined", name:
undefined }
```

FUNCTIONS:

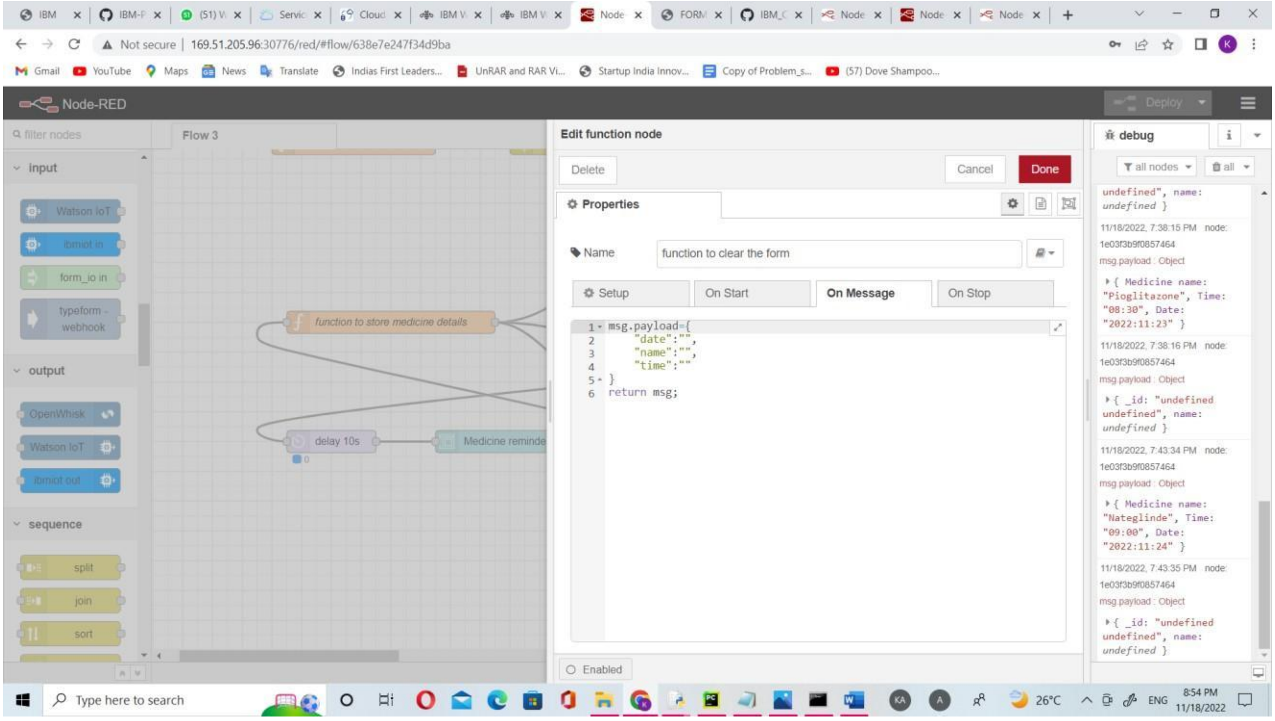
1. FUNCTION TO STORE MEDICINE DETAILS



Name: function to store medicine details

```
var d=msg.payload.date
var t=msg.payload.time
msg.payload={
    "_id":d+" "+t,
    "name": msg.payload.name,
}
return msg;
```

2. FUNCTION TO CLEAR THE FORM



Edit function node

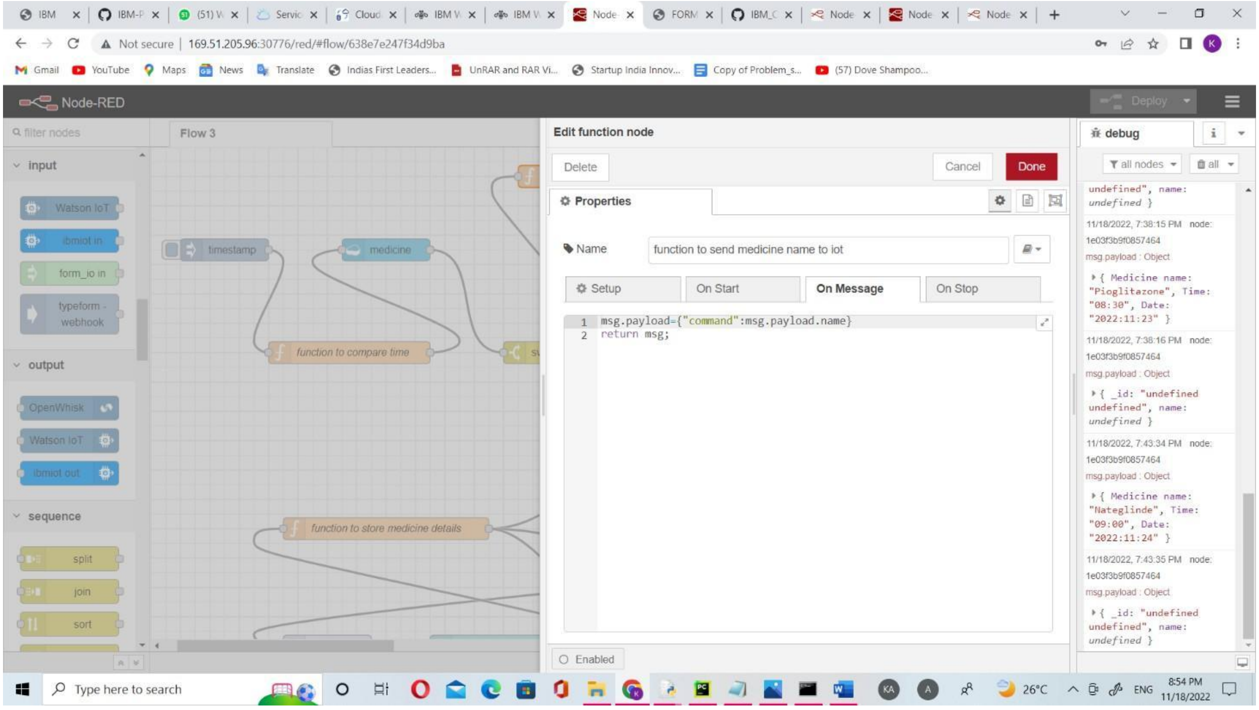
Name: function to clear the form

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

debug

```
undefined", name:
undefined }
11/18/2022, 7:38:15 PM  node:
1e03f3b9f0857464
msg.payload : Object
{ Medicine name:
"Pioglitazone", Time:
"08:30", Date:
"2022:11:23" }
11/18/2022, 7:38:16 PM  node:
1e03f3b9f0857464
msg.payload : Object
{ _id: "undefined
undefined", name:
undefined }
11/18/2022, 7:43:34 PM  node:
1e03f3b9f0857464
msg.payload : Object
{ Medicine name:
"Nateglinde", Time:
"09:00", Date:
"2022:11:24" }
11/18/2022, 7:43:35 PM  node:
1e03f3b9f0857464
msg.payload : Object
{ _id: "undefined
undefined", name:
undefined }
```

3. FUNCTION TO SEND MEDICINE NAME TO IOT



Edit function node

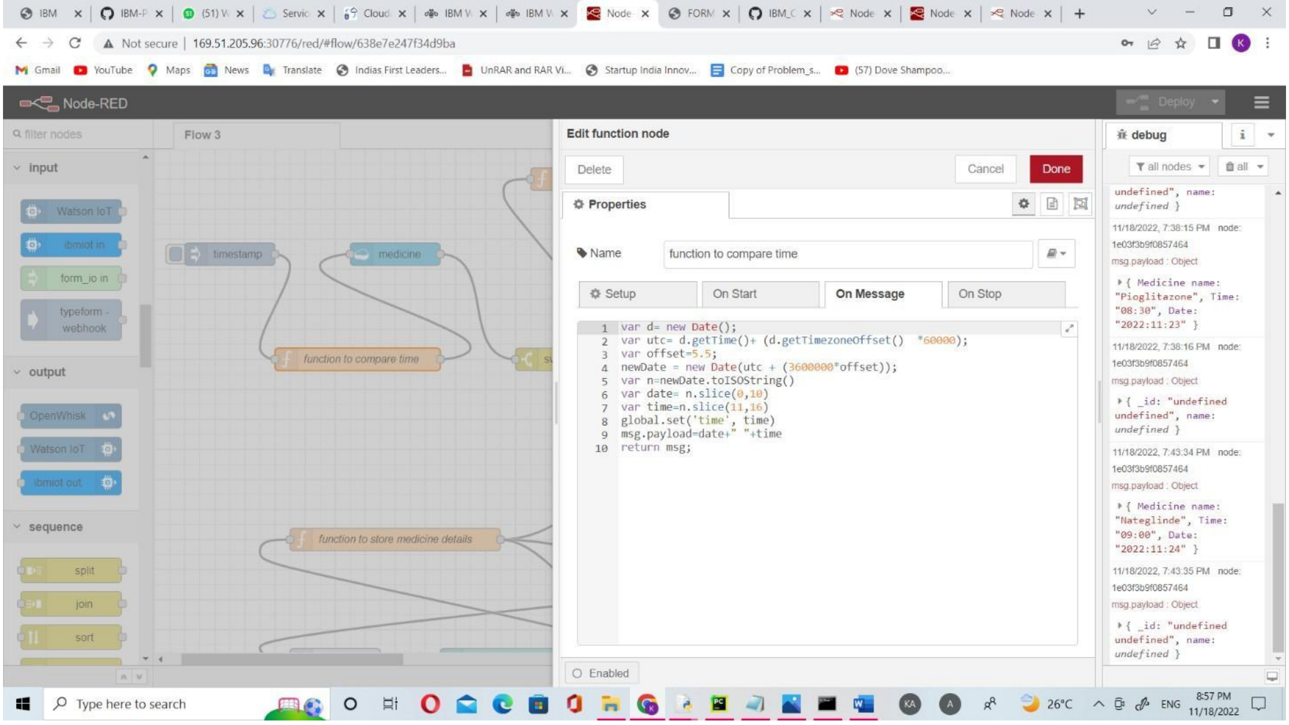
Name: function to send medicine name to iot

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

debug

```
undefined", name:
undefined }
11/18/2022, 7:38:15 PM  node:
1e03f3b9f0857464
msg.payload : Object
{ Medicine name:
"Pioglitazone", Time:
"08:30", Date:
"2022:11:23" }
11/18/2022, 7:38:16 PM  node:
1e03f3b9f0857464
msg.payload : Object
{ _id: "undefined
undefined", name:
undefined }
11/18/2022, 7:43:34 PM  node:
1e03f3b9f0857464
msg.payload : Object
{ Medicine name:
"Nateglinde", Time:
"09:00", Date:
"2022:11:24" }
11/18/2022, 7:43:35 PM  node:
1e03f3b9f0857464
msg.payload : Object
{ _id: "undefined
undefined", name:
undefined }
```

4. FUNCTION TO COMPARE TIME



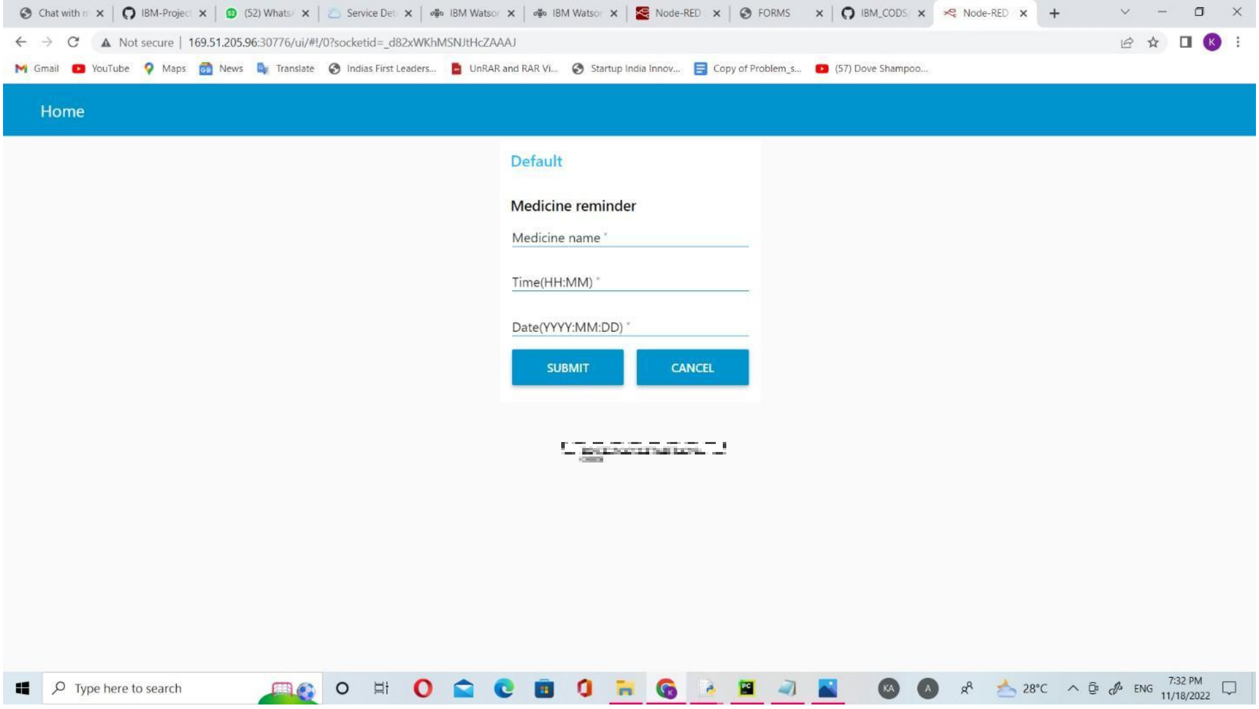
Edit function node

Name: function to compare 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;
```

```
undefined", name:
undefined }
11/18/2022, 7:38:15 PM node:
1e03f3b9f0857464
msg.payload : Object
{ Medicine name:
"Pioglitazone", Time:
"08:30", Date:
"2022:11:23" }
11/18/2022, 7:38:16 PM node:
1e03f3b9f0857464
msg.payload : Object
{ _id: "undefined
undefined", name:
undefined }
11/18/2022, 7:43:34 PM node:
1e03f3b9f0857464
msg.payload : Object
{ Medicine name:
"Nateglinde", Time:
"09:00", Date:
"2022:11:24" }
11/18/2022, 7:43:35 PM node:
1e03f3b9f0857464
msg.payload : Object
{ _id: "undefined
undefined", name:
undefined }
```

WEB UI(MEDICINE REMINDER PAGE):



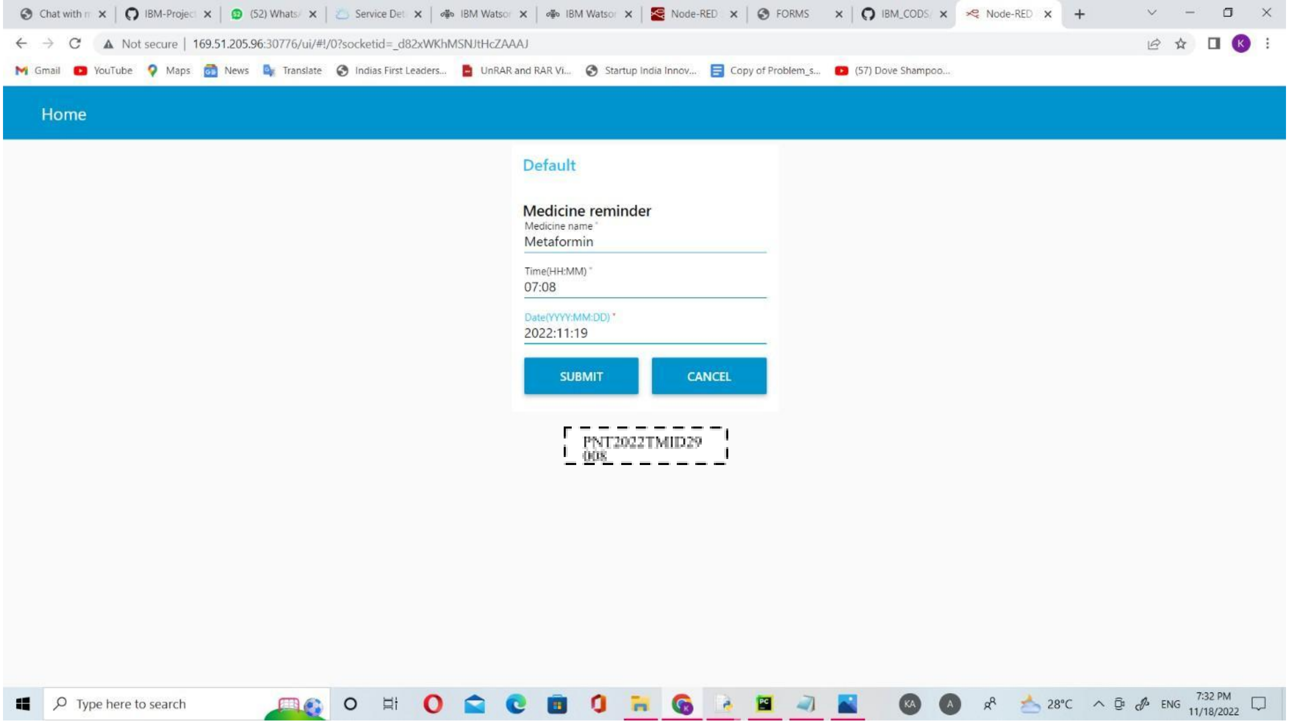
Default

Medicine reminder

Medicine name *

Time(HH:MM) *

Date(YYYY:MM:DD) *



Home

Default

Medicine reminder

Medicine name *
Metaformin

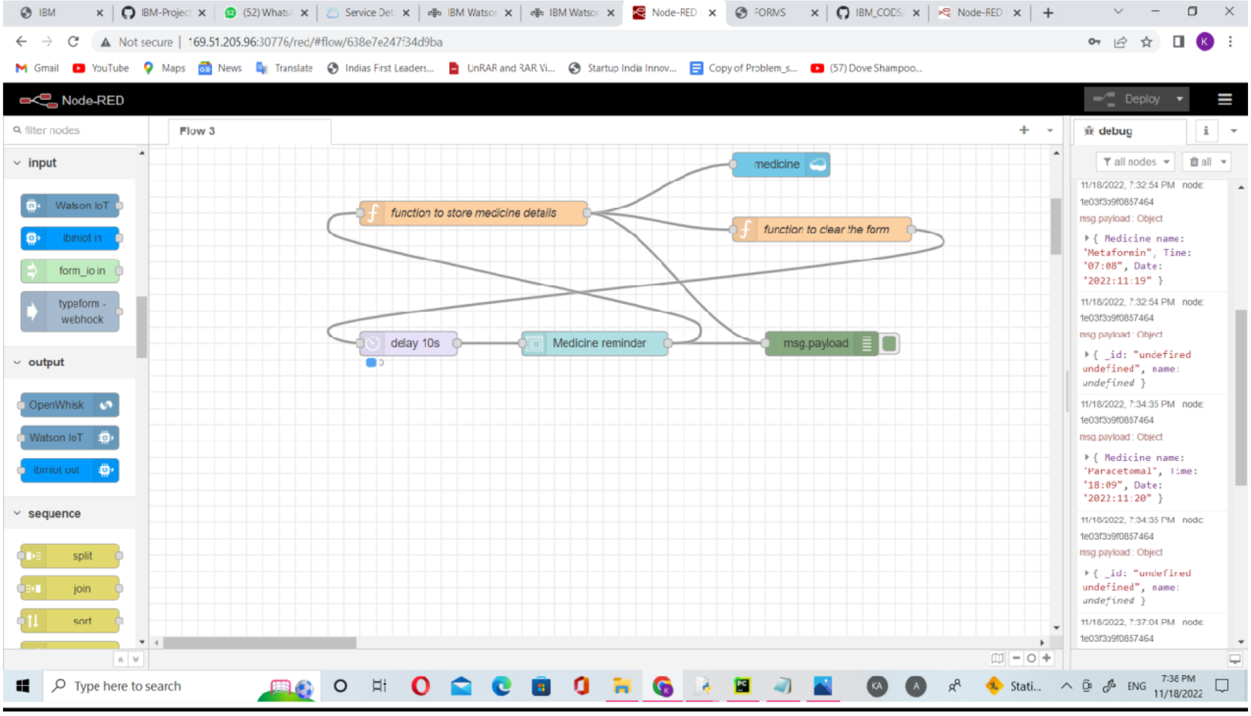
Time(HH:MM) *
07:08

Date(YYYY:MM:DD) *
2022:11:19

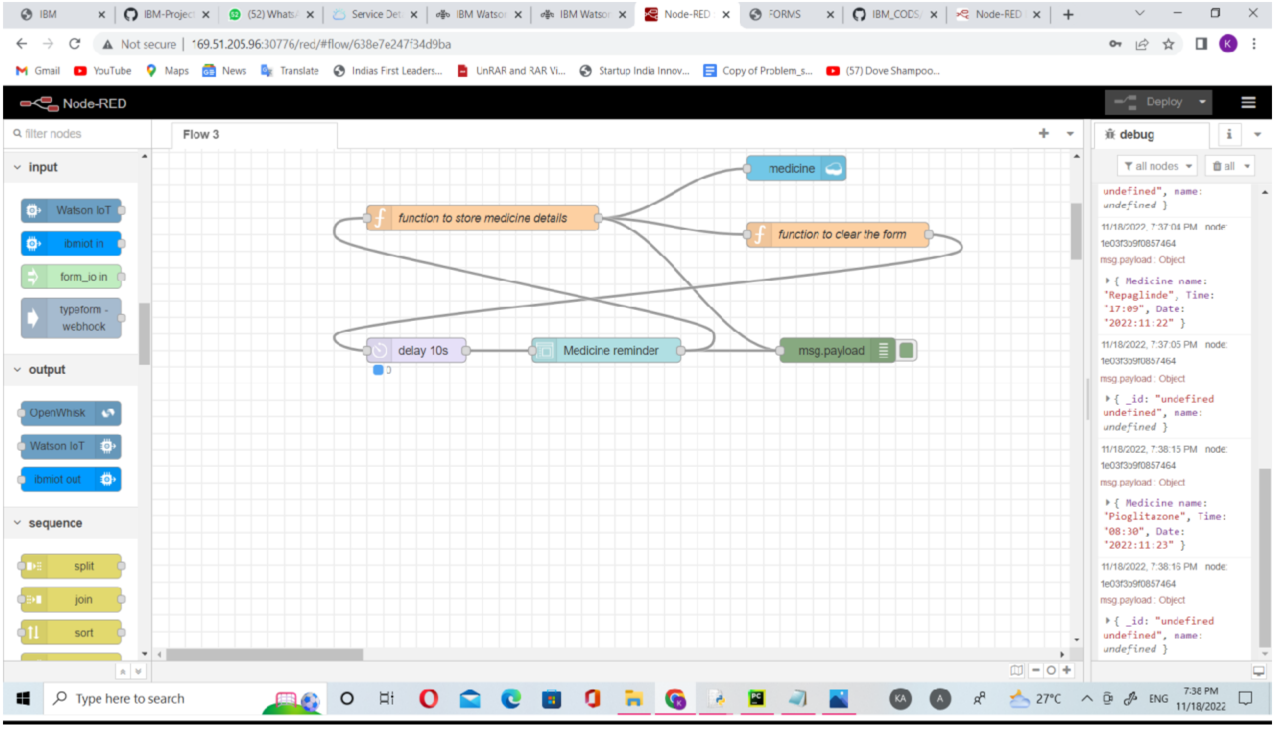
PNT2022TMID29008

DEBUG WINDOW:

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

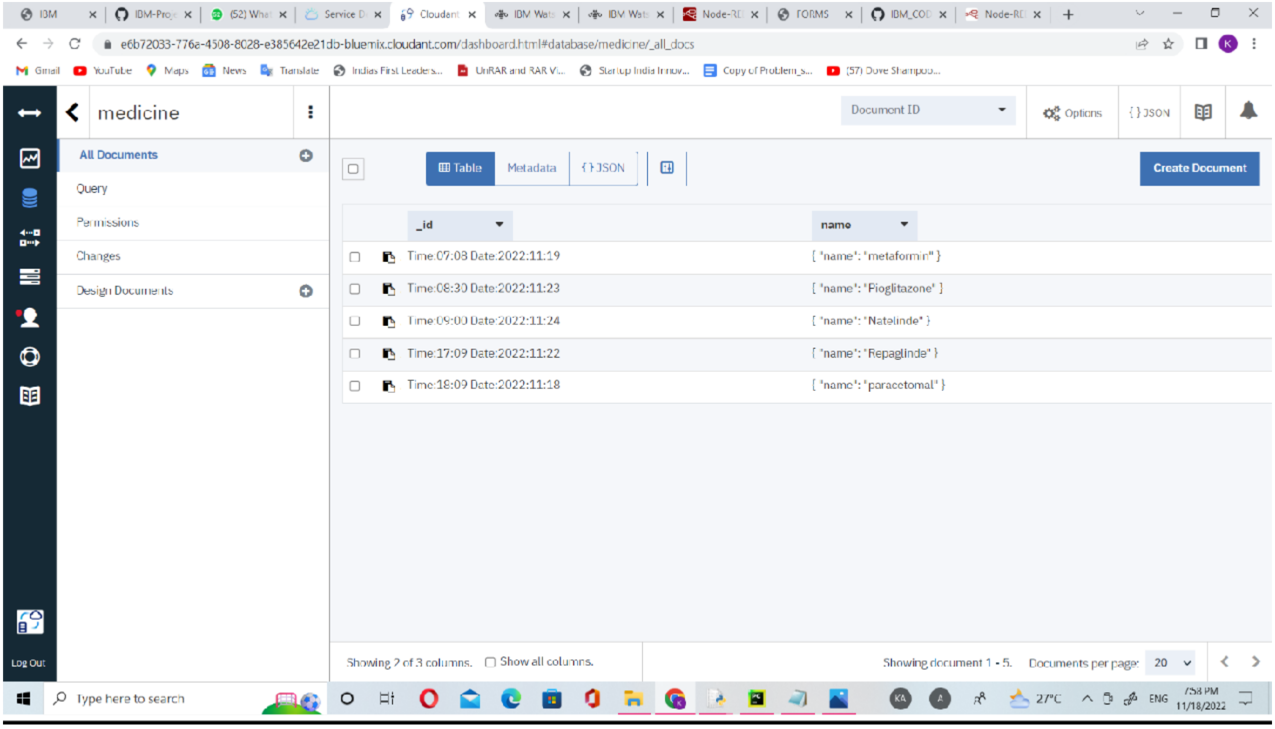


```
11/18/2022, 7:32:54 PM  node: 1e03f3b9f0857464
msg.payload : Object
▸{ Medicine name: "Metaformin", Tine: "07:08", Date: "2022:11:19" }
11/18/2022, 7:32:54 PM  node: 1e03f3b9f0857464
msg.payload : Object
▸{ _id: "undefined undefined", name: undefined }
11/18/2022, 7:34:35 PM  node: 1e03f3b9f0857464
msg.payload : Object
▸{ Medicine name: "Paracetomal", Time: "18:09", Date: "2022:11:20" }
11/18/2022, 7:34:35 PM  node: 1e03f3b9f0857464
msg.payload : Object
▸{ _id: "undefined undefined", name: undefined }
11/18/2022, 7:37:04 PM  node: 1e03f3b9f0857464
```



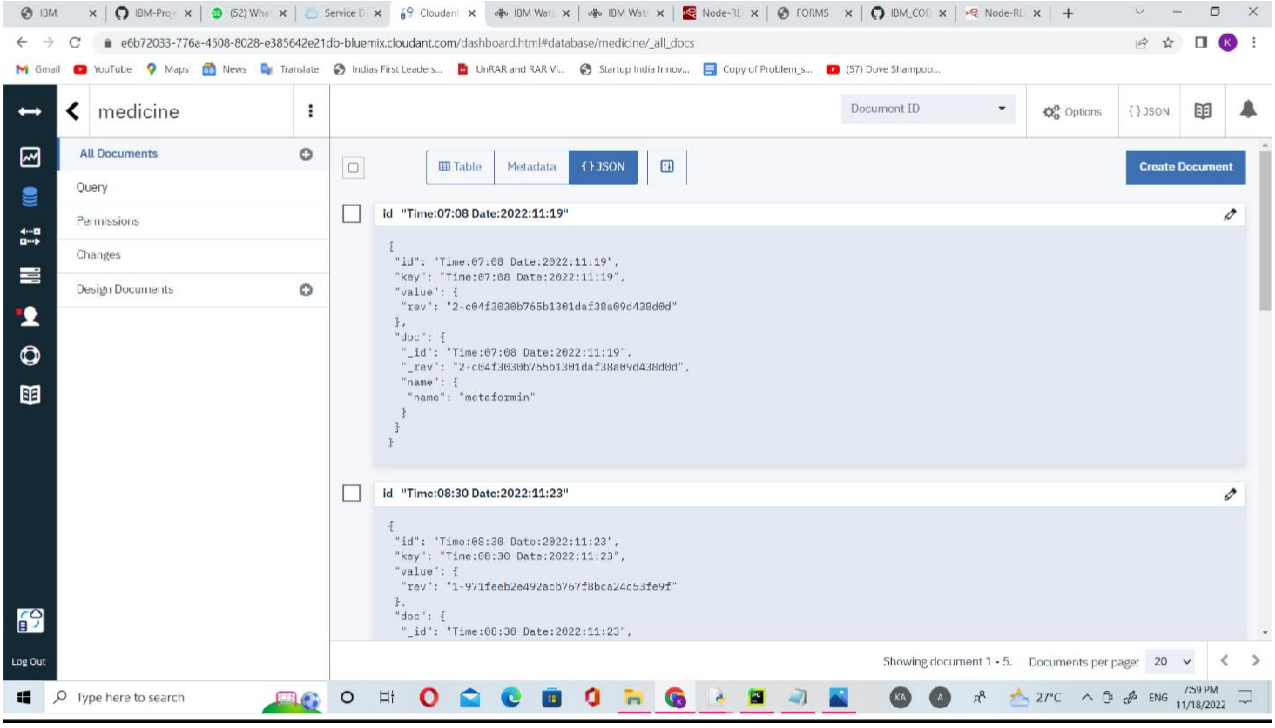
```
undefined", name:
undefined }
11/18/2022, 7:37:04 PM  node:
1e03f3b9f0857464
msg.payload : Object
▸{ Medicine name:
"Repaglinde", Time:
"17:09", Date:
"2022:11:22" }
11/18/2022, 7:37:05 PM  node:
1e03f3b9f0857464
msg.payload : Object
▸{ _id: "undefired
undefined", name:
undefined }
11/18/2022, 7:38:15 PM  node:
1e03f3b9f0857464
msg.payload : Object
▸{ Medicine name:
"Pioglitazone", Time:
"08:30", Date:
"2022:11:23" }
11/18/2022, 7:38:16 PM  node:
1e03f3b9f0857464
msg.payload : Object
▸{ _id: "undefired
undefined", name:
undefined }
```

MEDICINE DATABASE IN CLOUDANT DB:



_id	name
Time:07:08 Date:2022:11:19	{ 'name': 'metaformin' }
Time:08:30 Date:2022:11:23	{ 'name': 'Pioglitazone' }
Time:09:00 Date:2022:11:24	{ 'name': 'Natelinde' }
Time:17:09 Date:2022:11:22	{ 'name': 'Repaglinde' }
Time:18:09 Date:2022:11:18	{ 'name': 'paracetomal' }

Showing 2 of 3 columns. □ Show all columns. Showing document 1 - 5. Documents per page: 20



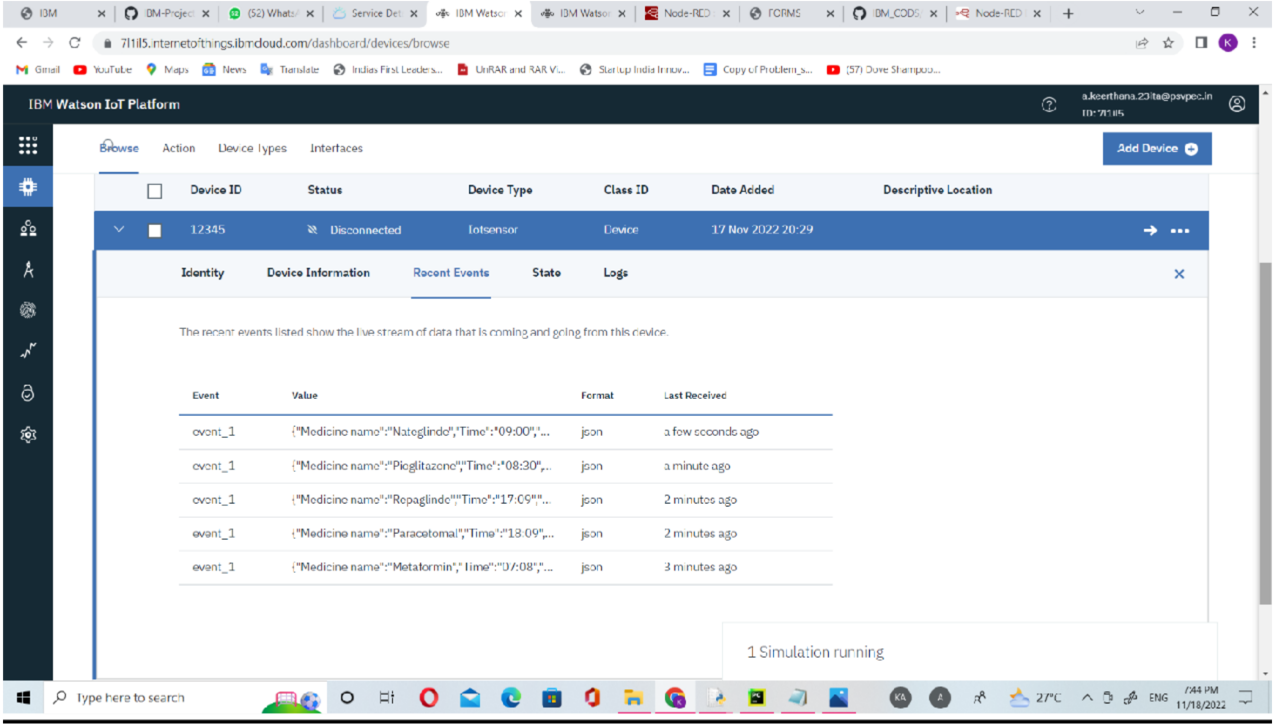
id "Time:07:08 Date:2022:11:19"

```
{
 "id": "Time:07:08 Date:2022:11:19",
 "key": "Time:07:08 Date:2022:11:19",
 "value": {
  "rev": "2-c04f3030b765b1301daf38a09c438d0d"
 },
 "doc": {
  "_id": "Time:07:08 Date:2022:11:19",
  "_rev": "2-c04f3030b765b1301daf38a09d438d0d",
  "name": {
   "name": "meteformin"
  }
 }
}
```

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": "1-971feeb2e492acb767f8bca24c53fe9f"
 },
 "doc": {
  "_id": "Time:08:30 Date:2022:11:23",
```

IBM WATSON IOT PLATFORM:



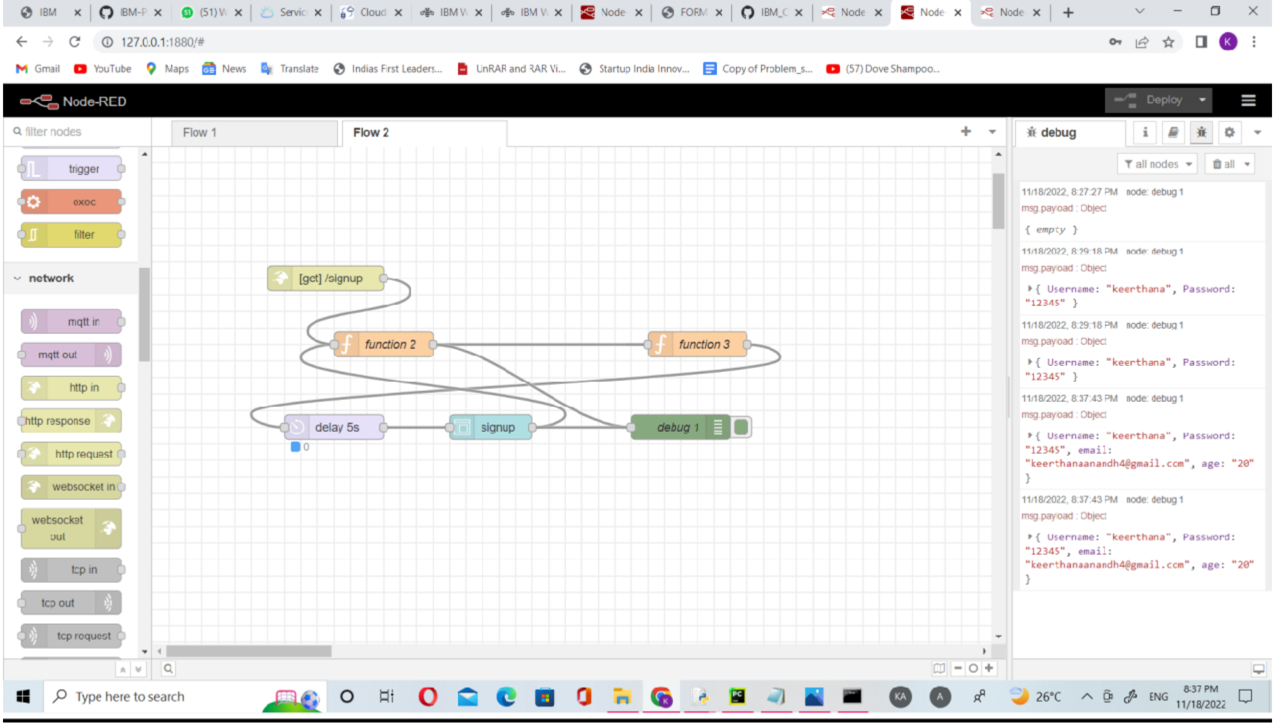
Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
12345	Disconnected	Iotsensor	Device	17 Nov 2022 20:29	

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":"Nateglinde","Time":"09:00","...	json	a few seconds ago
event_1	{"Medicine name":"Pioglitazone","Time":"08:30",...	json	a minute ago
event_1	{"Medicine name":"Repaglinde","Time":"17:09","...	json	2 minutes ago
event_1	{"Medicine name":"Paracetomal","Time":"18:09",...	json	2 minutes ago
event_1	{"Medicine name":"Metaformin","Time":"07:08","...	json	3 minutes ago

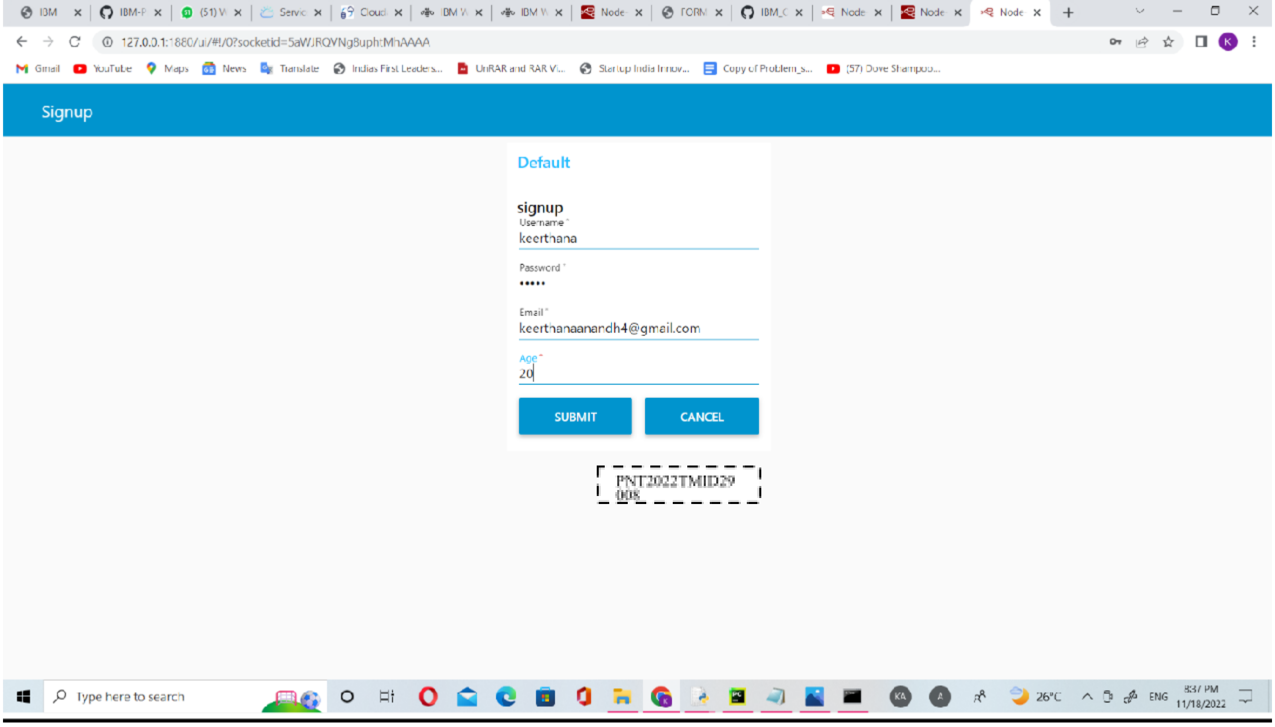
SIGNUP FORM IN NODE RED:

In debug window the details are stored.



```
11/18/2022, 8:27:27 PM   node: debug 1
msg.payload : Object
{ empty }

11/18/2022, 8:29:18 PM   node: debug 1
msg.payload : Object
▸{ Username: "keerthana", Password:
"12345" }

11/18/2022, 8:29:18 PM   node: debug 1
msg.payload : Object
▸{ Username: "keerthana", Password:
"12345" }

11/18/2022, 8:37:43 PM   node: debug 1
msg.payload : Object
▸{ Username: "keerthana", Password:
"12345", email:
"keerthanaanandh4@gmail.ccm", age: "20"
}

11/18/2022, 8:37:43 PM   node: debug 1
msg.payload : Object
▸{ Username: "keerthana", Password:
"12345", email:
"keerthanaanandh4@gmail.ccm", age: "20"
}
```

WEBUI(SIGNUP):



signup

Username *
keerthana

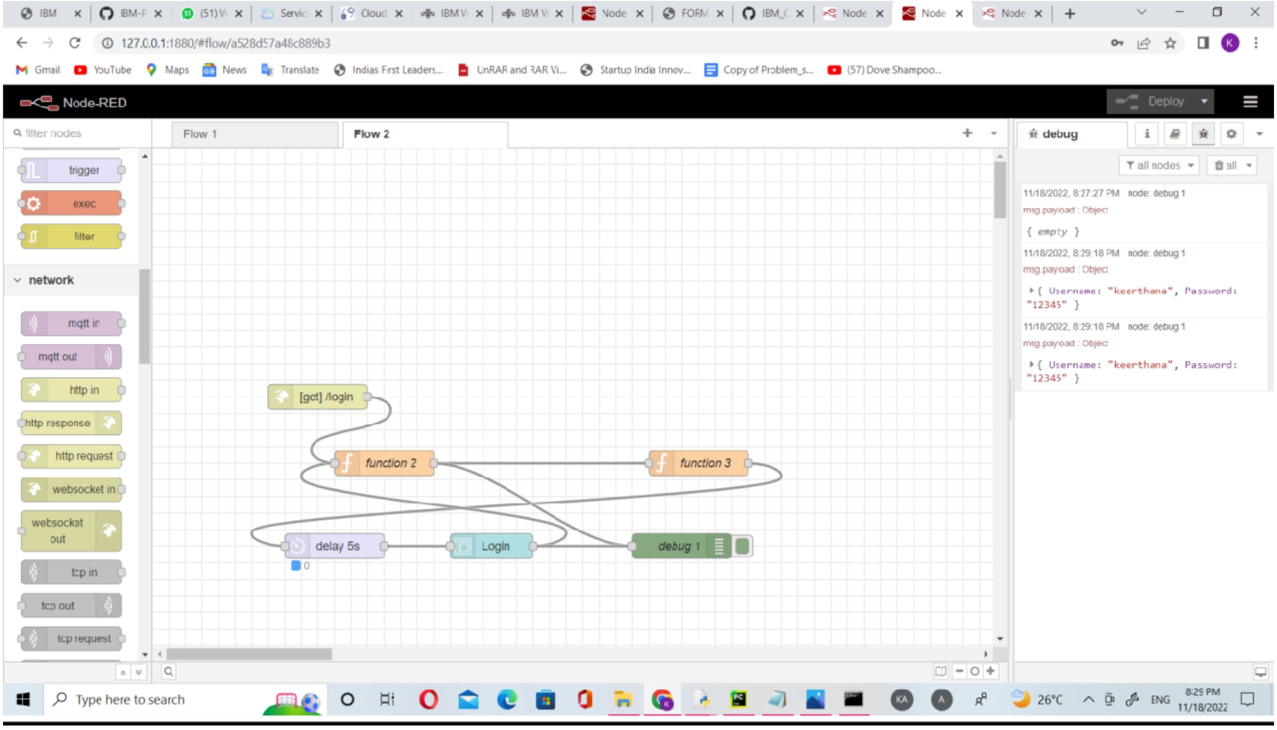
Password *
•••••

Email *
keerthanaanandh4@gmail.com

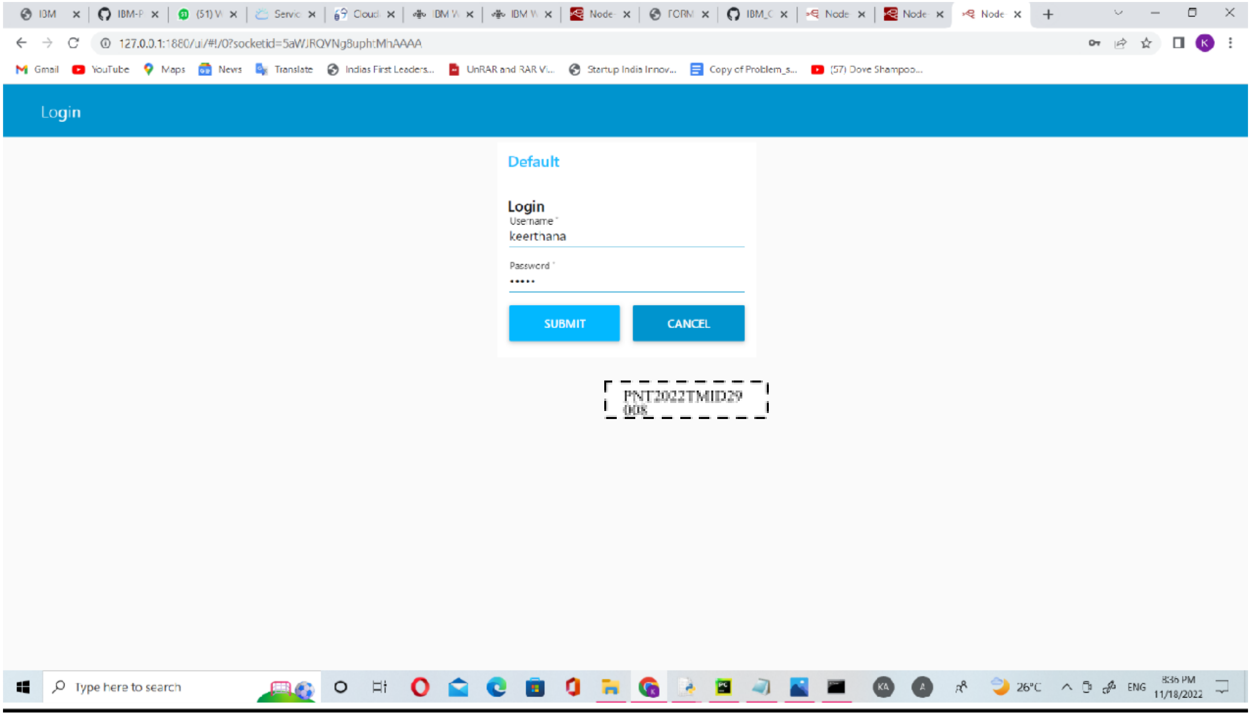
Age *
20

PNT2022TMID29008

LOGIN FORM USING NODE RED:



```
11/18/2022, 8:27:27 PM   node: debug 1
msg.payload : Object
{ empty }
11/18/2022, 8:29:18 PM   node: debug 1
msg.payload : Object
▸{ Username: "keerthana", Password:
"12345" }
11/18/2022, 8:29:18 PM   node: debug 1
msg.payload : Object
▸{ Username: "keerthana", Password:
"12345" }
```



Login

Username *
keerthana

Password *
•••••

PNT2022TMID29
008

MEDICINE REMINDER PAGE:

http://169.51.205.96:30776/ui/#!/0?socketid=_d82xWKhMSNJtHcZAAAJ

SIGNUP PAGE:

http://127.0.0.1:1880/ui/#!/0?socketid=5aWJRQVNg8uphtMhAAAA