

PROJECT DEVELOPMENT PHASE

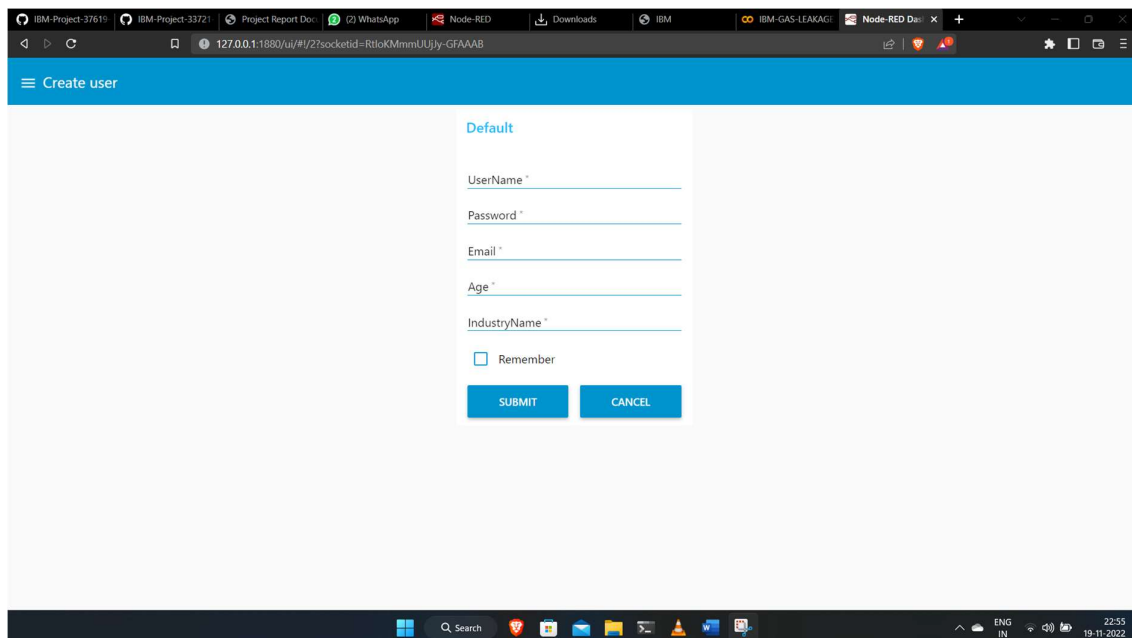
SPRINT – 1

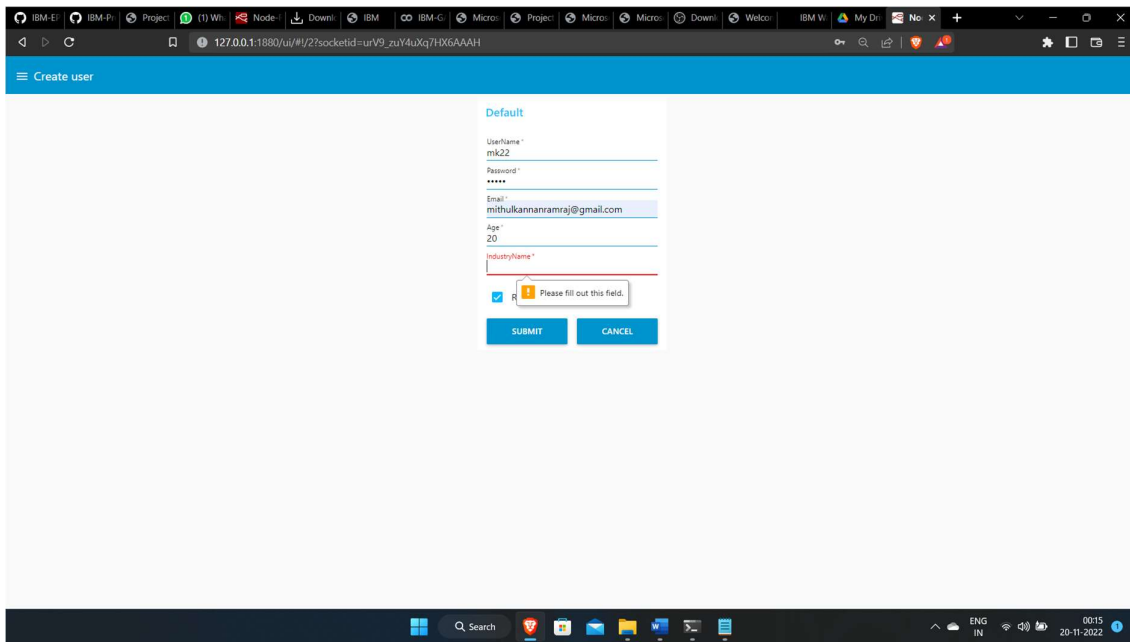
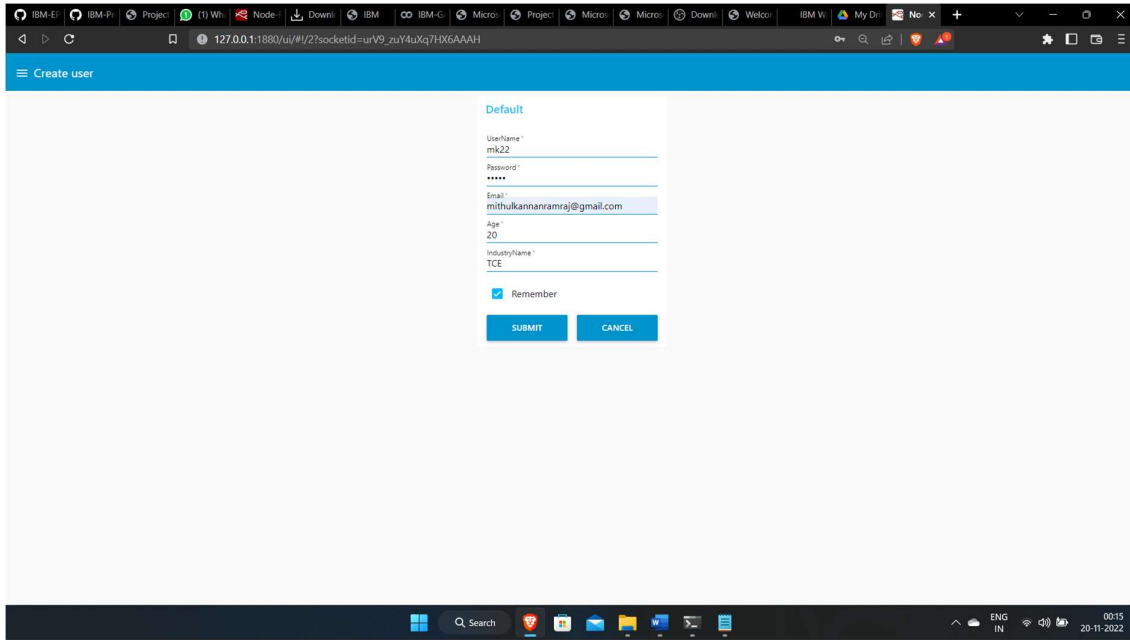
Date	29 October 2022
Team ID	PNT2022TMID21520
Project Name	Project - Gas Leakage monitoring & Alerting system for Industries
Maximum Marks	20 Marks

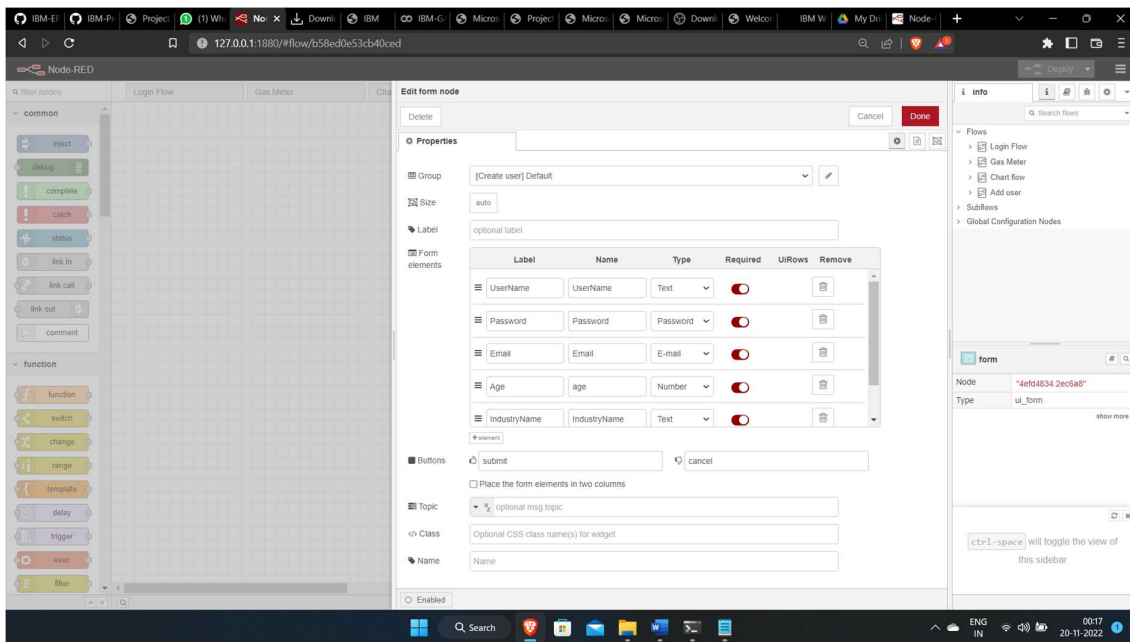
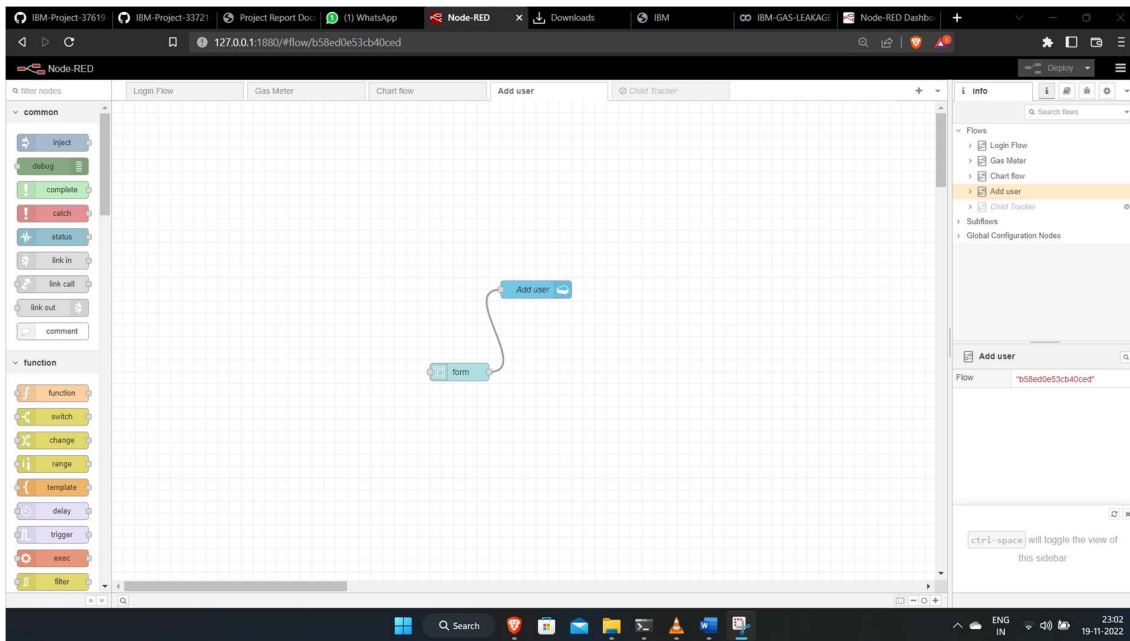
Functional Requirements to be completed :

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	MITHUL KANNAN K R
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	PALANI KUMAR S
Sprint-1		USN-3	As a user, I can register for the application through Facebook	2	Low	ARAVINTH S
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Medium	SURYA KUMAR K
Sprint-1	Monitoring	USN-5	As a user, I can monitor the status of gas leakage	1	High	MITHUL KANNAN K R

SCREENSHOTS :







Create user

Default

Username*
mk22

Password*

Email*
mitthulkannanramraj@gmail.com

Age*
20

IndustryName*

☒ Please fill out this field.

SUBMIT CANCEL

Node-RED

127.0.0.1:1880/#flow/b58ed0e53cb40ced

common

- inject
- debug
- complete
- catch
- status
- link in
- link out
- comment

function

- function
- switch
- change
- range
- template
- delay
- trigger
- exec
- filter

form

Add user

Edit cloudant out node

Properties

Service: External cloudant or couchdb service

Server: Cloudant db

Database: gas_signup

Operation: insert

☒ Only store msg.payload object?

Name: Add user

Info

Flows

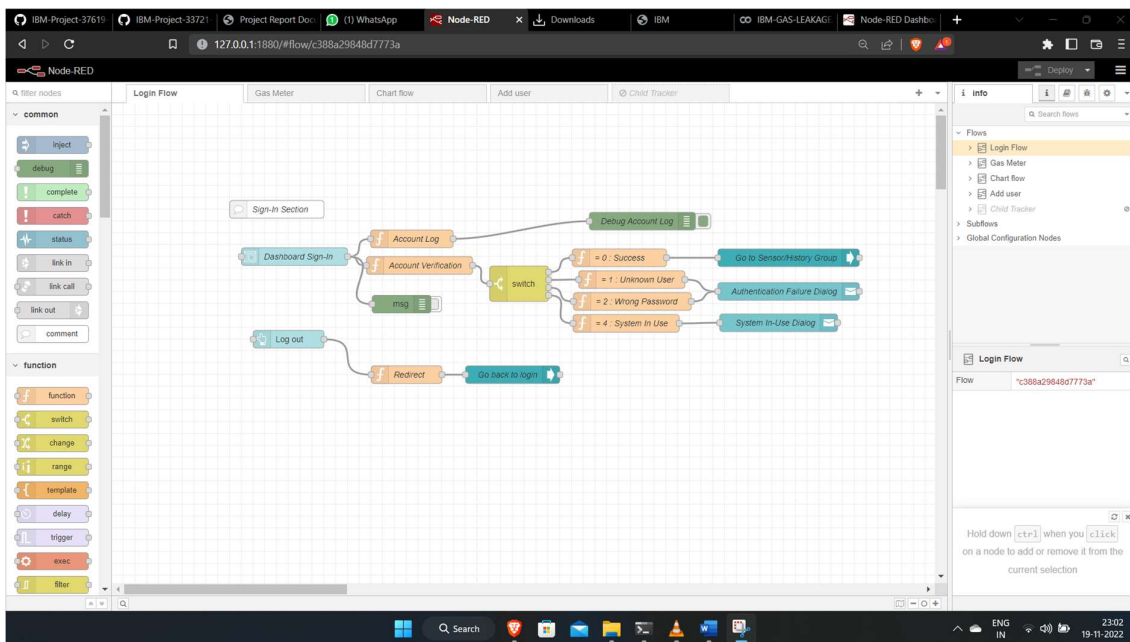
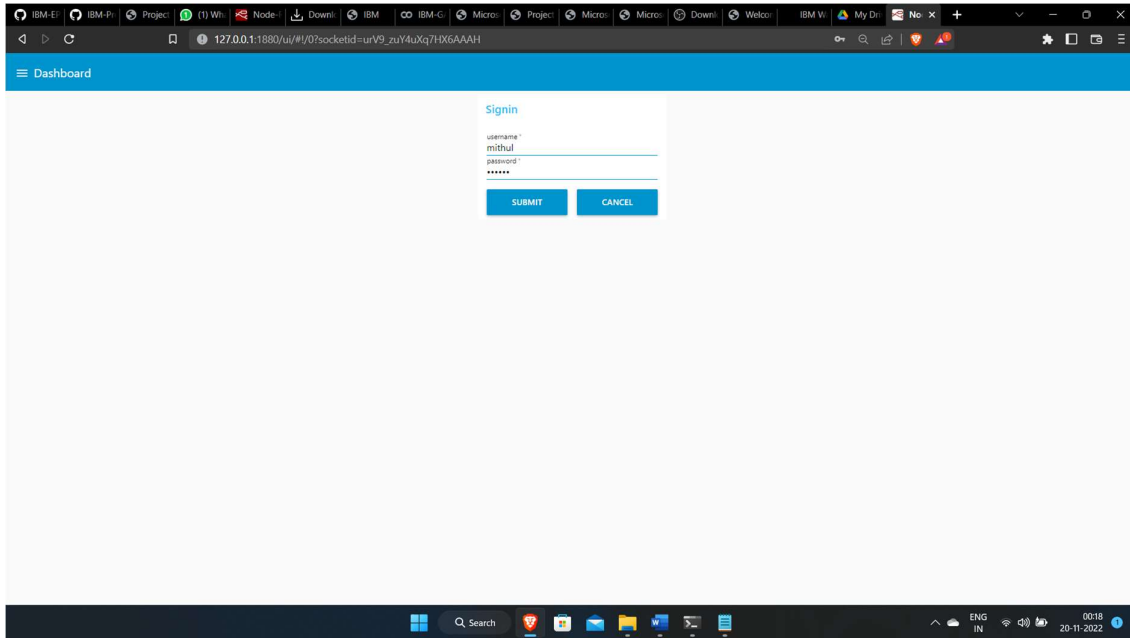
- Login Flow
- Gas Meter
- Chart flow
- Add user
- Subflows
- Global Configuration Nodes

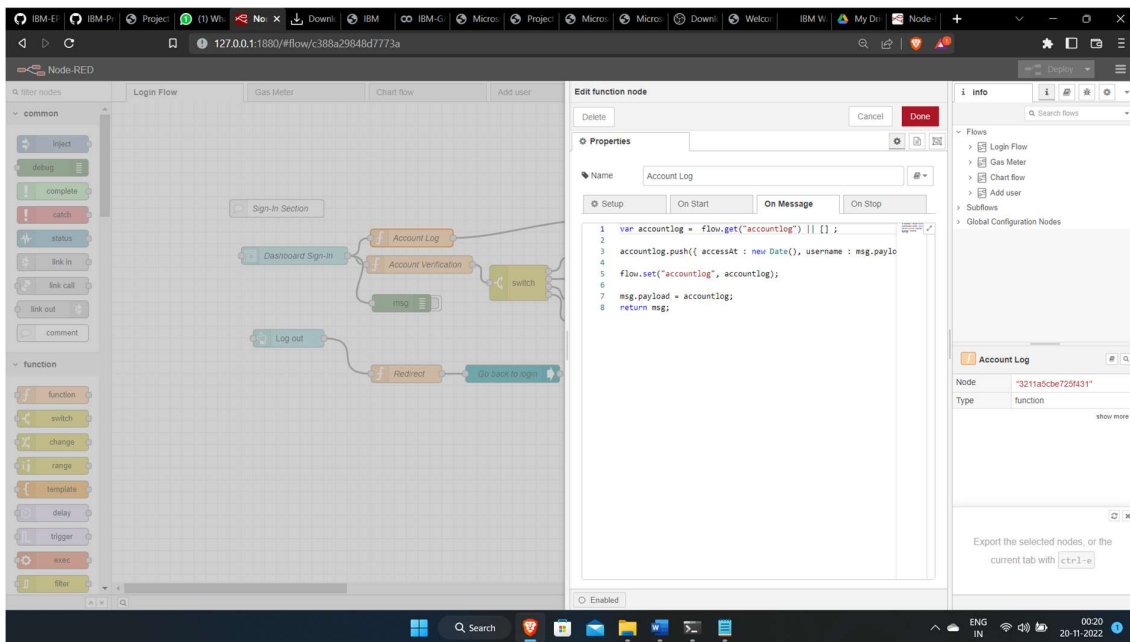
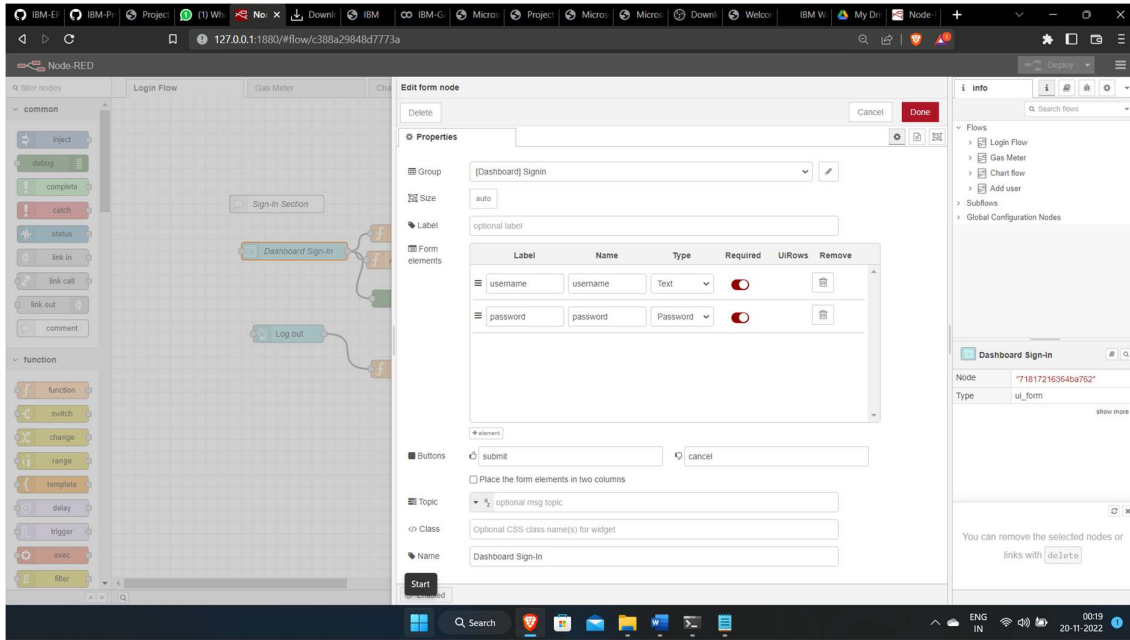
Add user

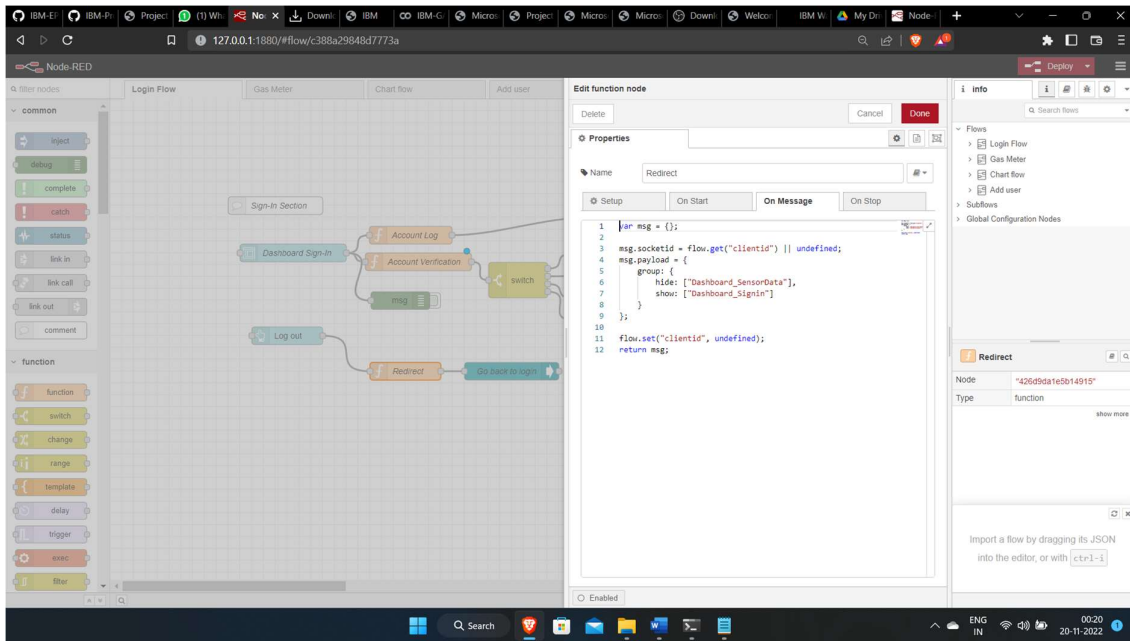
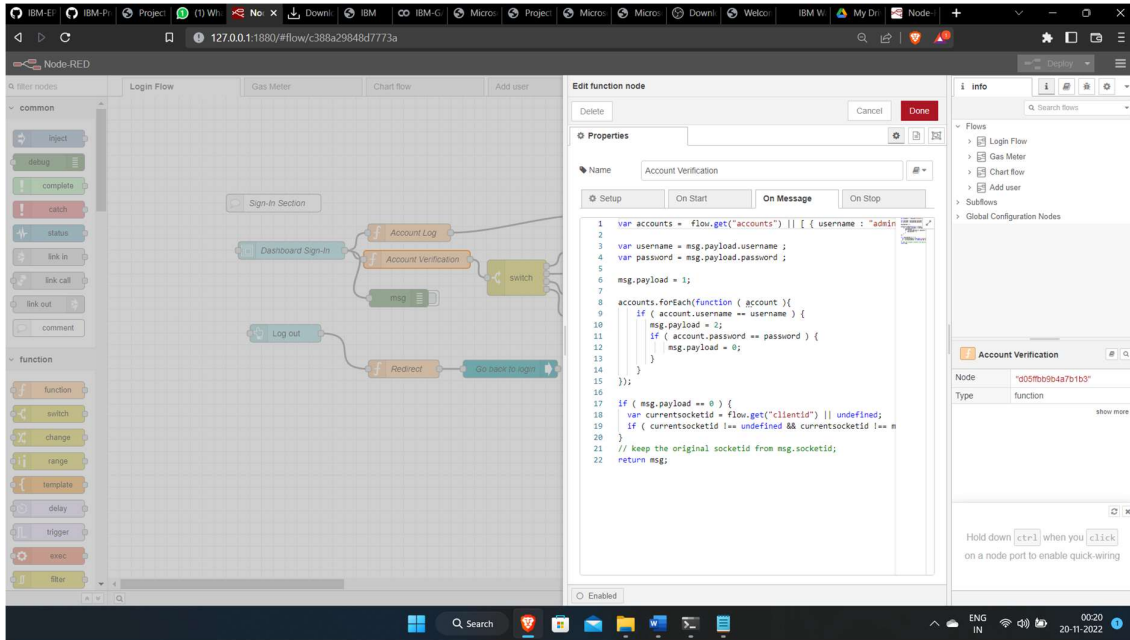
Node: "b66b0228347da34"

Type: cloudant out

Hold down [ctrl] when you click on a node to add or remove it from the current selection







Node-RED interface showing a flow for "Login Flow". The flow includes nodes: "Sign-In Section", "Dashboard Sign-In", "Account Log", "Account Verification", "msg", "switch", "Log out", "Redirect", and "Go back to login". The "Edit function node" panel is open, showing the following code:

```
1 /* activate session timer */
2 var sessionTimer = flow.get("sessionTimer") || 0;
3 var curTime = Date.now();
4 flow.set("sessionTimer", curTime);
5 flow.set("clientId", msg.socketId);
6 /* ui-control payload */
7 msg.payload = { group: {
8   show: ["Dashboard_SensorData", "Another_History"],
9   hide: ["Dashboard_SignIn"]
10 }
11 };
12
13 return msg;
```

The "Properties" panel shows the node name as "= 0 : Success". The "Info" panel shows the node ID as "56f5b127ba9d7ee".

Node-RED interface showing the same flow for "Login Flow". The flow includes nodes: "Sign-In Section", "Dashboard Sign-In", "Account Log", "Account Verification", "msg", "switch", "Log out", "Redirect", and "Go back to login". The "Edit function node" panel is open, showing the following code:

```
1 msg.payload = "Username Doesn't exist!!!"
2 return msg;
```

The "Properties" panel shows the node name as "= 1 : Unknown User". The "Info" panel shows the node ID as "1e69630da4013cd5".

Node-RED interface showing a flow diagram and the "Edit function node" panel.

Flow Diagram:

- Sign-In Section
- Dashboard Sign-In
- Account Log
- Account Verification
- msg
- Log out
- Redirect
- Go back to login

Edit function node:

Name: = 2: Wrong Password

On Message

```
1 msg.payload = "Invalid Password";
2 return msg;
```

Info Panel:

Name: = 2: Wrong Password

Node: "5da647c5d585233c"

Type: function

Node-RED interface showing a flow diagram and the "Edit function node" panel.

Flow Diagram:

- Sign-In Section
- Dashboard Sign-In
- Account Log
- Account Verification
- msg
- Log out
- Redirect
- Go back to login

Edit function node:

Name: = 4: System In Use

On Message

```
1 msg.payload = "System is used by other user.";
2 return msg;
```

Info Panel:

Name: = 4: System In Use

Node: "aba9811d54b0e962"

Type: function

