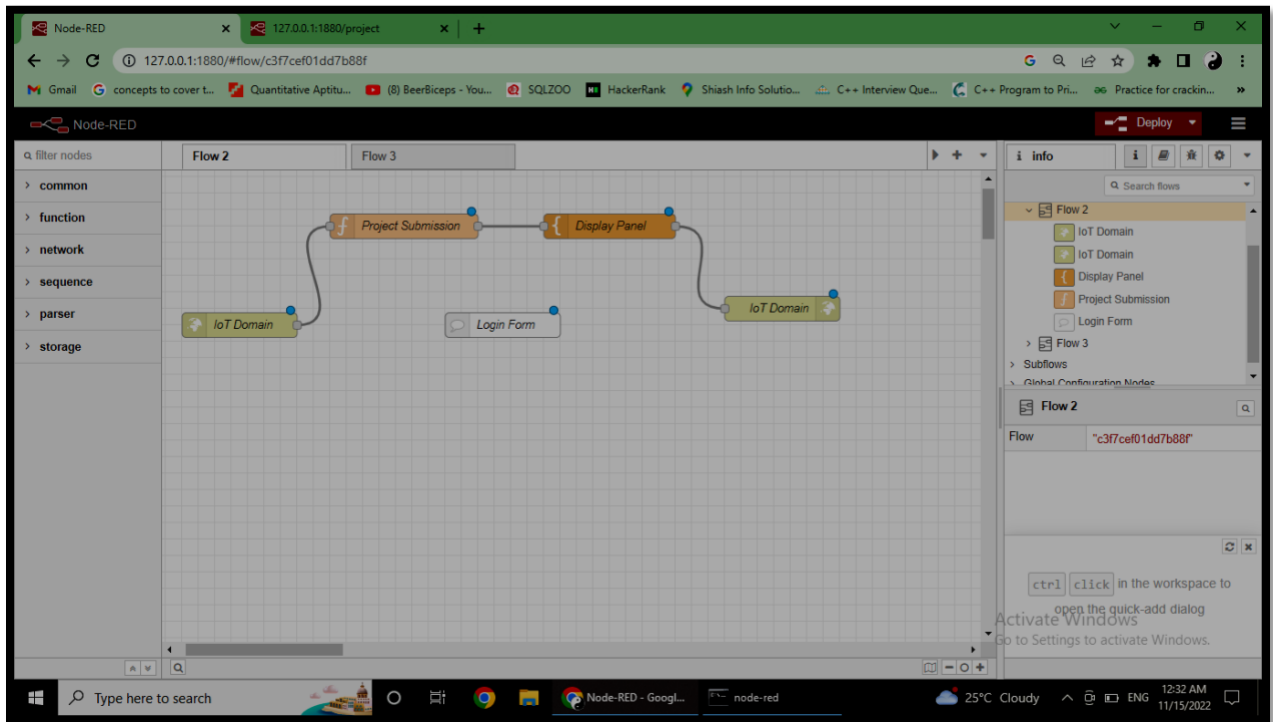# BUILD A WEB-BASED APPLICATION USING NODE-RED

GAS LEAKAGE MONITORING & ALERTING SYSTEM FOR INDUSTRIES

TEAM ID : PTN2022TMID00641
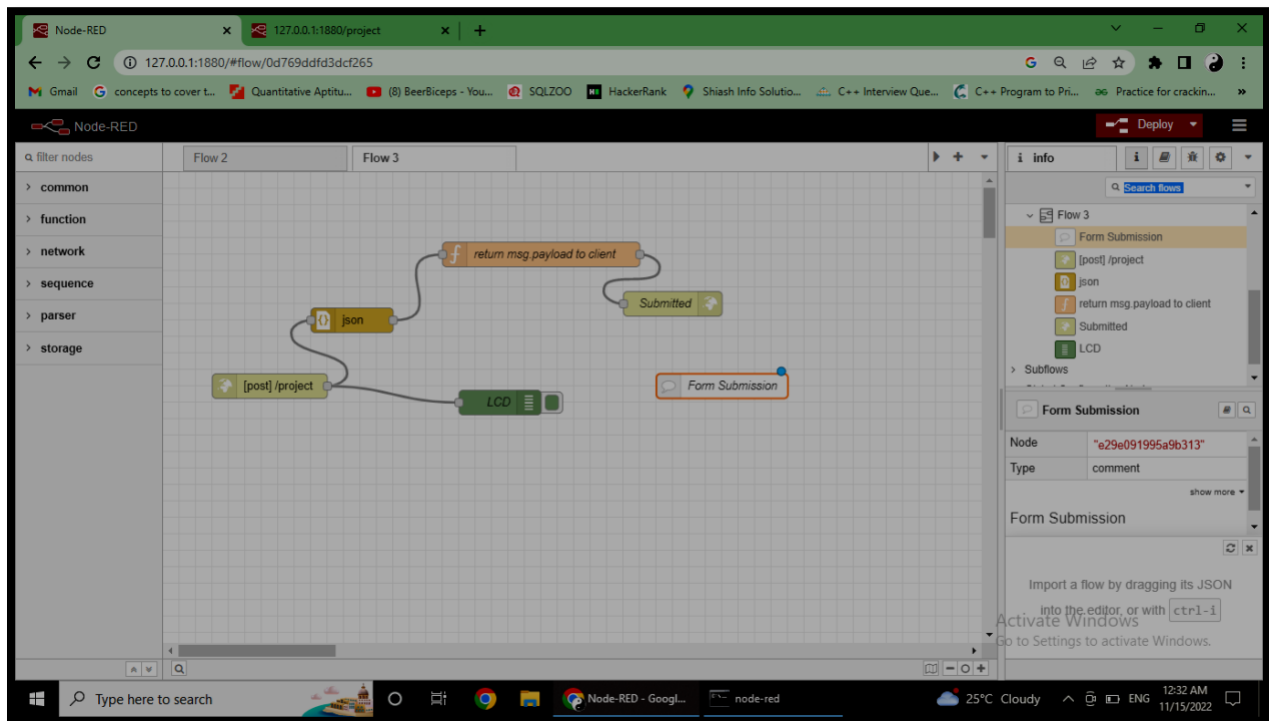
1. Connecting the nodes as shown below

Login Form:

Name	Node
IoT Domain	Http in node
Project Submission	Function node
Display Panel	Template node
IoT Domain	Http response node

Submission Form:

Name	Node
[post]/project	Http in node
json	Json node
Return msg.payload to client	Function node
Submitted	Http response node
LCD	Debug node

2.Designing the structure of the web page

Language used : HTML

The HyperText Markup Language or Html is the standard markup language for documents designed to be displayed in a web browser. HTML describes the structure of a Web page. HTML consists of a series of elements. HTML elements tell the browser how to display the content.

Mustache is a logic-less templating system. A Mustache template is a text string containing text and tags that represent data. The Mustache rendering engine takes a template and substitutes the tags with the data from a given data context.
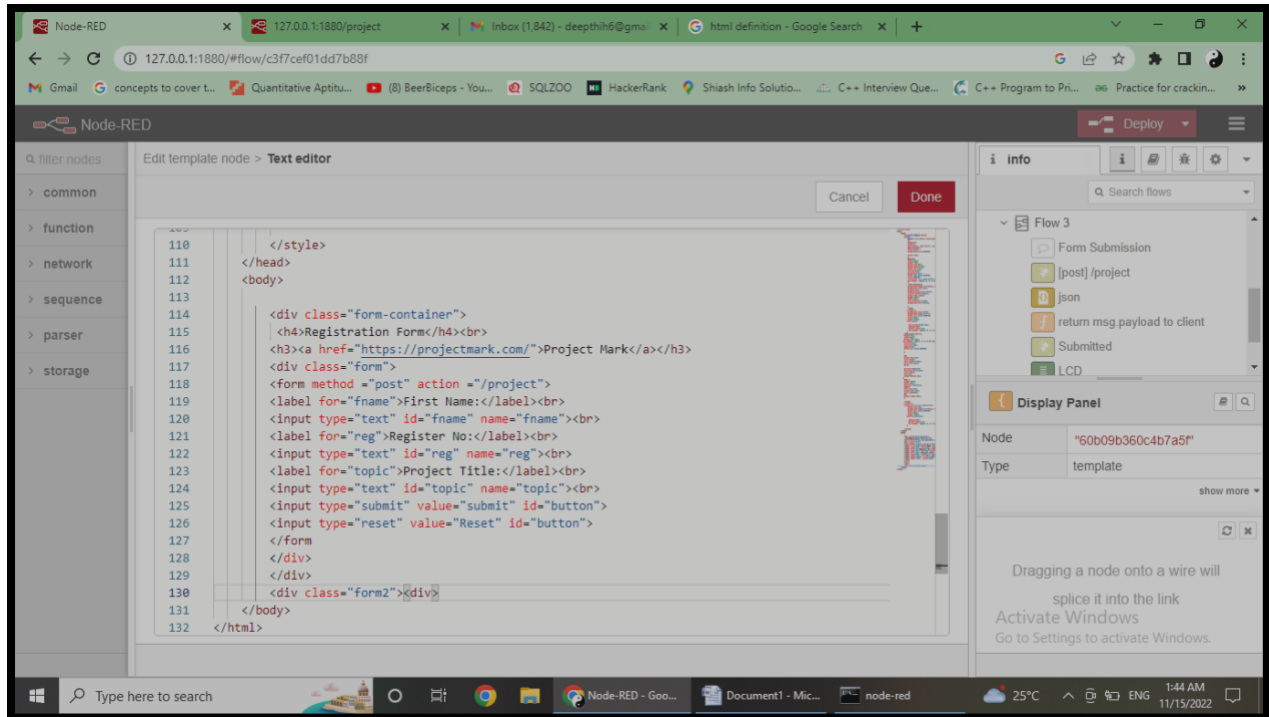
3.Code:

```html
<!DOCTYPE html>
<html>
    <head>
        <title>IoT Domain</title>
        <style>
            @import url('https://fonts.googleapis.com/css2?family=Bree+Serif&family=Kanit:wght@300;400;500&family=Palanquin+Dark:wght@400;500&family=Roboto+Slab:wght@300;400;500&display=swap');
            *{
            padding:0;
            margin:0;
            font-family: 'Bree Serif', serif;}
```

```css
#button:hover{
color:white;
background-color:#130f40;

border:none;
}
#button{
width:310px;
height:40px;
margin-top:20px;
margin-bottom:20px;
margin-left:20px;
font-size:18px;
outline:none;
background:none;
border:2px solid #130f40;
color:#130f40;
transition: 0.3s ease-in-out all;
box-shadow: rgba(0, 0, 0, 0.24) 0px 3px 8px;
}
.form-container{

backgroundimage:url("https://media.istockphoto.com/id/1248263
998/photo/isolated-high-tech-open-laptop-with-abstract-vibrant-
color-screen-on-a-dark-
background.jpg?s=170667a&w=0&k=20&c=xkNcW_DmhG6kbrncja
ZvkqRPZ27x5oZpHO15AxxDydo=");
background-size:cover;
display:flex;
background-position:center;
justify-content:center;
align-items:center;
height:100vh;
width:100vw;
flex-direction:column;
background-color:yellow;
```

```css
}
.form{
z-index:2;
background-color:white;
background-image:url("");
border:2px solid #130f40;
width:392px;
height:480px;
color:white;
box-sizing:border-box;
padding:20px;
border-radius:2px;
box-shadow: rgba(0, 0, 0, 0.64) 0px 3px 8px;
}
input[type="text"]{
height:25px;
width:300px;
margin:15px 20px;
box-shadow: rgba(0, 0, 0, 0.24) 0px 3px 8px;
outline:none;
font-size:18px;
padding:5px;
border:2px solid #130f40;
}

  h4{
  margin-top:15px;
  color:white;
  font-weight:normal;
  font-size:25px;}
  h3 a{
  position:absolute;
  text-decoration:none;
  color:white;
  top:15px;
```

```
        margin-bottom:18px;
    }
     body {
     height:100vh;
     width:100vw;
     position:relative;}
     label{
     font-size:18px;
     margin-left:18px;
     color:#130f40;}
     h3{
     margin-right:120px;
     }
     .form2{
     z-index:1;
     transition:0.2s all ease-in-out;
     margin-top:73px;
       background-image:url("https://images.unsplash.com/photo-
1525547719571-a2d4ac8945e2?ixlib=rb-
4.0.3&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx
8&auto=format&fit=crop&w=464&q=80");
        border:2px solid #130f40;
        width:392px;
        height:480px;
        position:absolute;

         padding:20px;
         border-radius:2px;
         box-shadow: rgba(0, 0, 0, 0.64) 0px 3px 8px;
       }
     </style>
   </head>
   <body>

     <div class="form-container">
      <h4>Registration Form</h4><br>
```

```html
<h3><a href="https://projectmark.com/">Project Mark</a></h3>
    <div class="form">
    <form method ="post" action ="/project">
    <label for="fname">First Name:</label><br>
    <input type="text" id="fname" name="fname"><br>
    <label for="reg">Register No:</label><br>
    <input type="text" id="reg" name="reg"><br>
    <label for="topic">Project Title:</label><br>
    <input type="text" id="topic" name="topic"><br>
    <input type="submit" value="submit" id="button">
    <input type="reset" value="Reset" id="button">
    </form>
    </div>
    </div>
    <div class="form2"><div>
  </body>
</html>
```

Final Output:

The following data was submitted and available in the msg.payload:
{"fname":"Nandhini","reg":"2019PECCS152","topic":"Gas Leakage Monitoring and Alerting System"}