

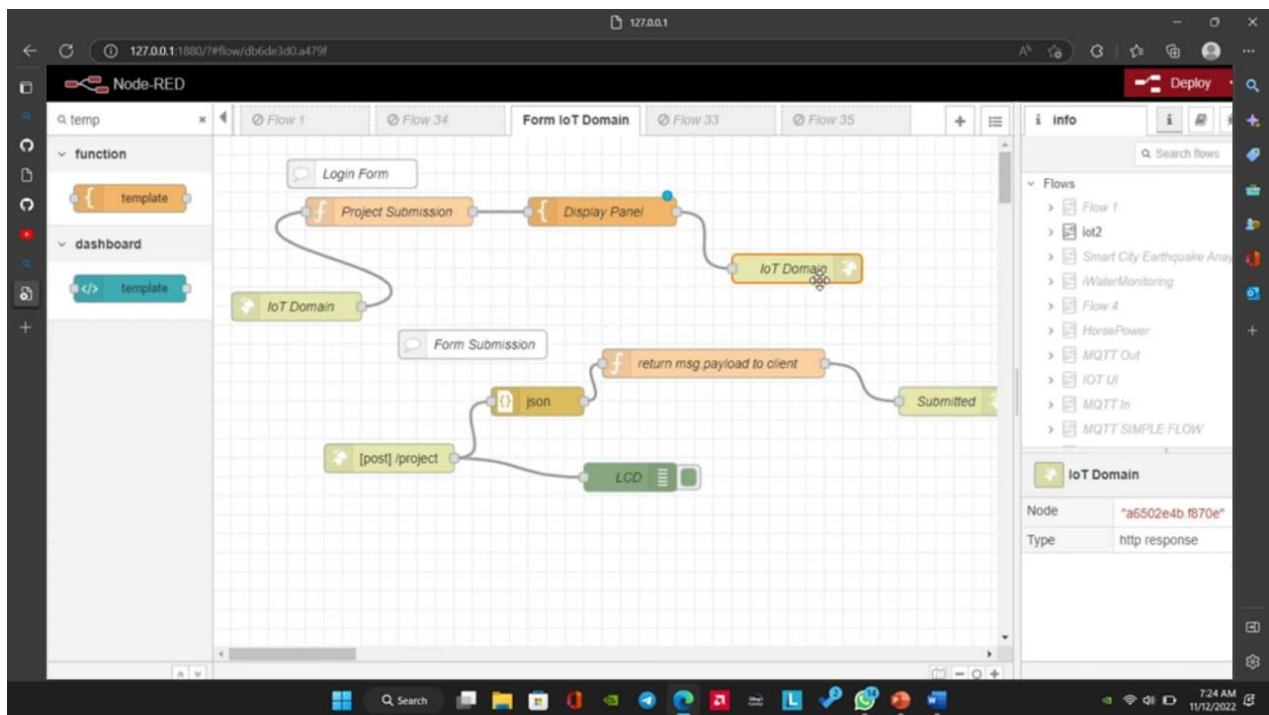
BUILD A WEB-BASED APPLICATION USING NODE-RED

GAS LEAKAGE MONITORING & ALERTING SYSTEM FOR INDUSTRIES

TEAMID: PTN2022TMID10197

1. Connecting the nodes as shown below

- IOT domain - IN node
- Project submission -Function node
- Display panel -Template node
- IoT domain (selected on the screen) -Response node



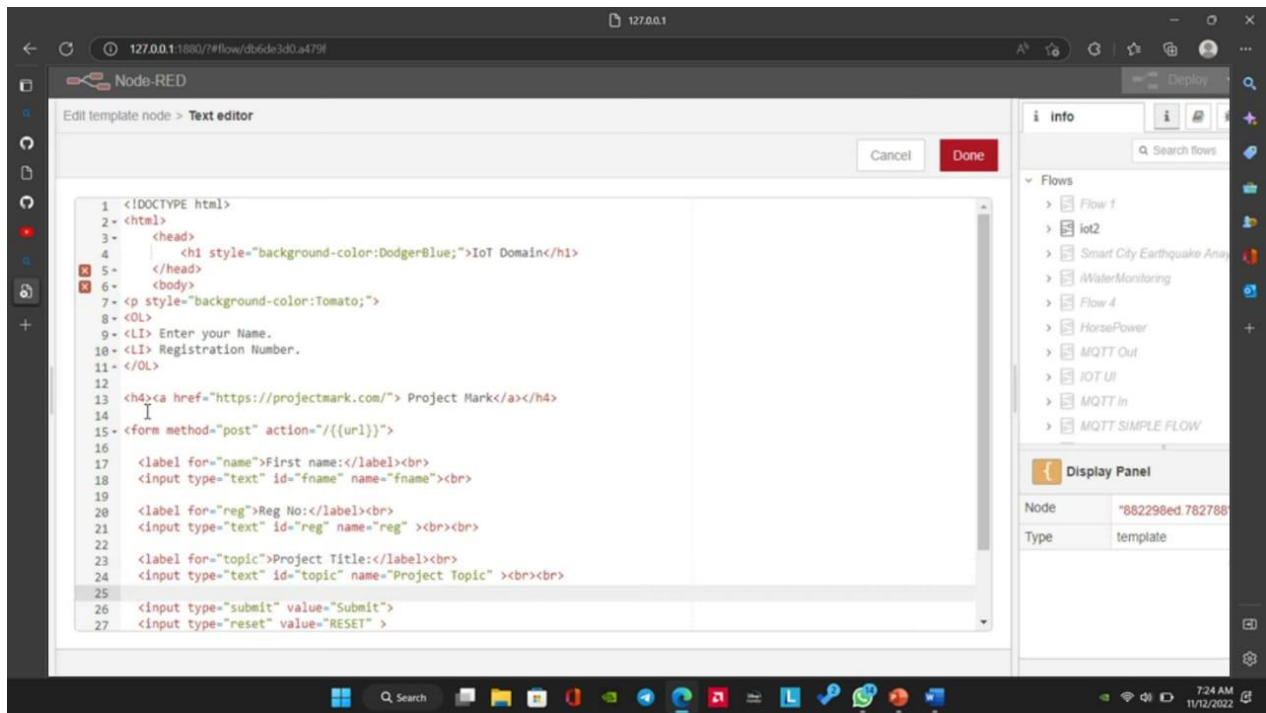
2.Designing the structure of the web page

Code used: HTML

The HyperText Markup Language or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets and scripting languages such as JavaScript.

Web template system: Mustache

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.



The screenshot shows the Node-RED web interface in a browser. The main editor area is titled 'Edit template node > Text editor'. It contains a Mustache template for an IoT domain registration form. The template includes HTML tags for a header, body, and form elements. The form has fields for 'First name', 'Reg No', and 'Project Title', each with a label and a text input. There are also 'Submit' and 'RESET' buttons. The template uses Mustache syntax like `{{url}}` for dynamic content. On the right side, there is an 'info' panel showing details about the selected node, including its ID '882298ed.782788' and type 'template'. A list of flows is also visible on the right.

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <h1 style="background-color: DodgerBlue;">IoT Domain</h1>
5   </head>
6   <body>
7     <p style="background-color: Tomato;">
8       <ol>
9         <li>Enter your Name.
10        </li>
11        <li>Registration Number.
12        </li>
13      </ol>
14      <h4><a href="https://projectmark.com/">Project Mark</a></h4>
15      <form method="post" action="{{url}}">
16        <label for="name">First name:</label><br>
17        <input type="text" id="fname" name="fname"><br>
18        <label for="reg">Reg No:</label><br>
19        <input type="text" id="reg" name="reg" ><br><br>
20        <label for="topic">Project Title:</label><br>
21        <input type="text" id="topic" name="Project Topic" ><br><br>
22        <input type="submit" value="Submit">
23        <input type="reset" value="RESET" >
24      </form>
25    </p>
26  </body>
27 </html>
```

3.FINAL OUTPUT

