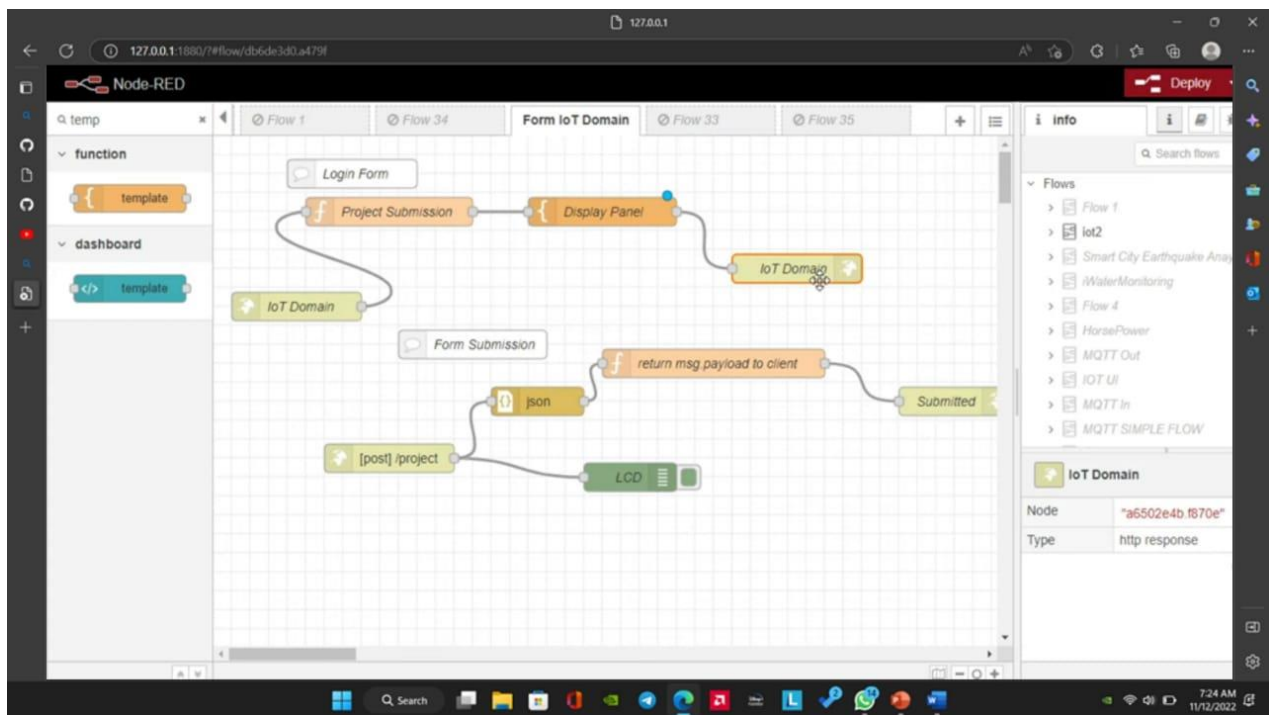


BUILD A WEB-BASED APPLICATION USING NODE-RED GAS LEAKAGE MONITORING & ALERTING SYSTEM FOR INDUSTRIES ID: PNT2022TMID38234

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



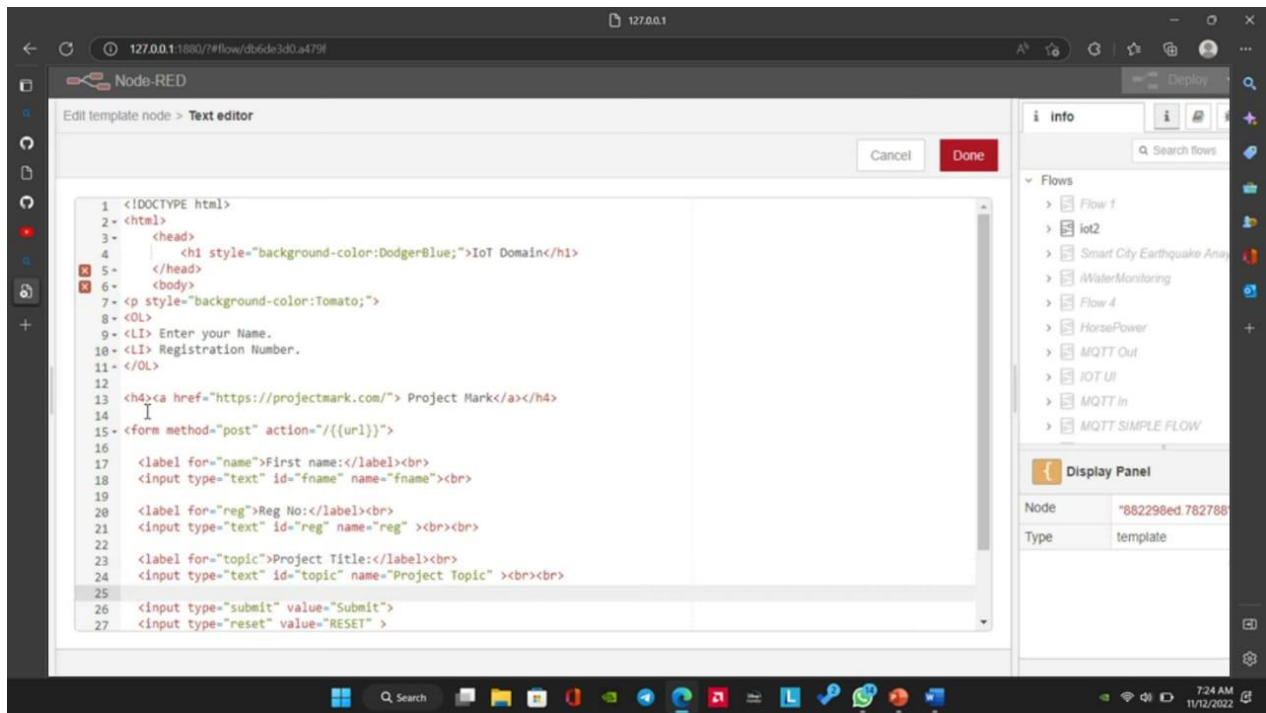
2. Designing the structure of the web page

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 registration form. The template includes HTML tags for a head, body, and form elements. The form has input fields for 'First name', 'Reg No', and 'Project Title', along with 'Submit' and 'RESET' buttons. The template uses Mustache syntax like `{{url}}` and `Project Topic` to represent dynamic data. On the right side, there is an 'info' panel showing a list of flows and a 'Display Panel' with node information (Node: 882298ed.782788, Type: template). The browser address bar shows the URL `127.0.0.1:1880/#flow/db6de3d0.a479f`.

```
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>Registration Number.
11      </ol>
12    <h4><a href="https://projectmark.com/">Project Mark</a></h4>
13    <form method="post" action="{{url}}">
14      <label for="name">First name:</label><br>
15      <input type="text" id="fname" name="fname"><br>
16      <label for="reg">Reg No:</label><br>
17      <input type="text" id="reg" name="reg" ><br><br>
18      <label for="topic">Project Title:</label><br>
19      <input type="text" id="topic" name="Project Topic" ><br><br>
20      <input type="submit" value="Submit">
21      <input type="reset" value="RESET" >
22    </form>
23  </body>
24 </html>
```

3.FINAL OUTPUT

