

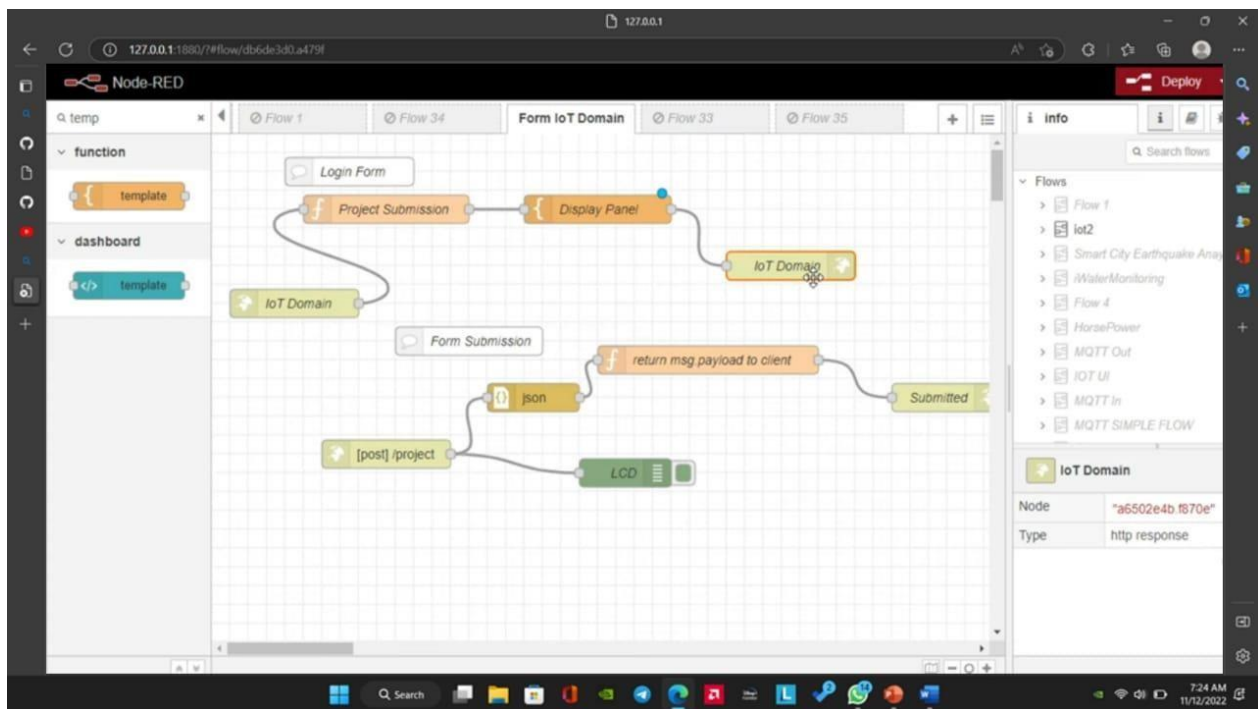
BUILD A WEB-BASED APPLICATION USING NODE-RED

GAS LEAKAGE MONITORING & ALERTING SYSTEM FOR INDUSTRIES

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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



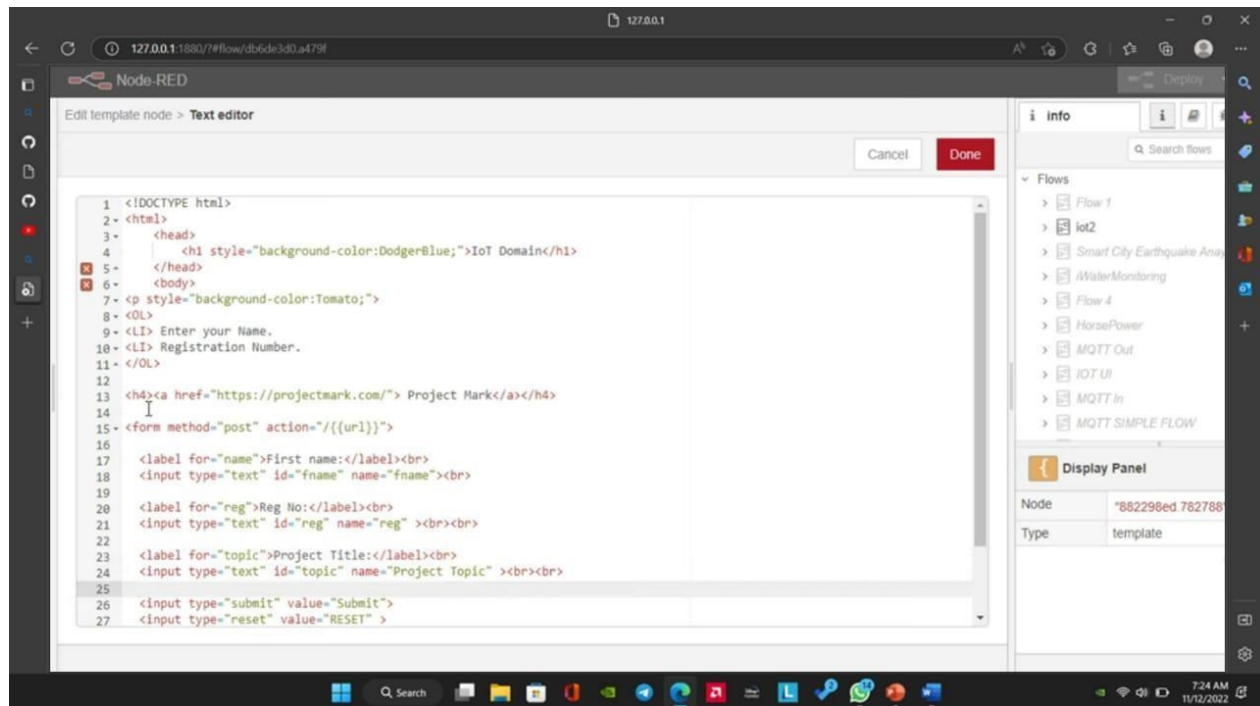
2.Designing the structure of the web page

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 structure with a head section, a body section with a form, and a footer section. The form has fields for 'First name', 'Reg No', 'Project Title', and 'Project Topic', along with 'Submit' and 'RESET' buttons. The template uses Mustache tags like `<{{url}}>` and `<{{fname}}>` for dynamic content. The right sidebar shows a list of flows and a 'Display Panel' with node information.

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

3.FINAL OUTPUT

