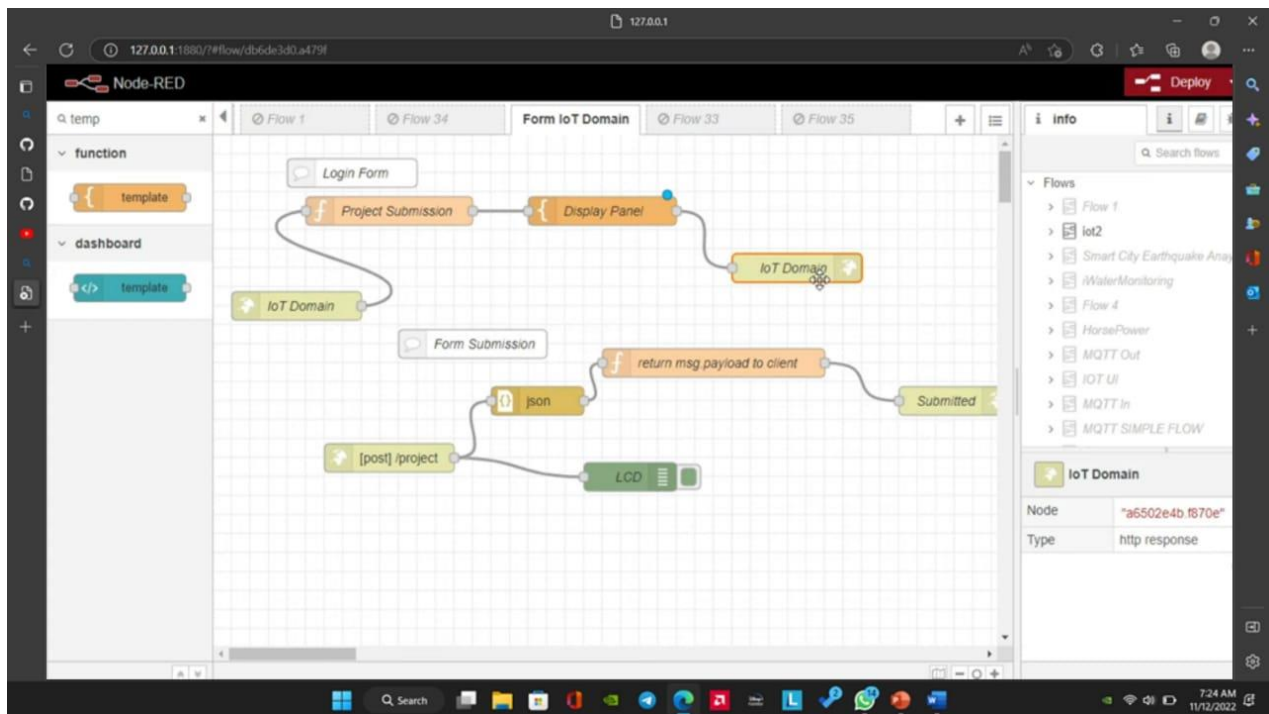


BUILD A WEB BASED APPLICATION USING NODE RED
SMART FARMING – AN IOT ENABLED SMART FARMING APPLICATION
TEAMID: PTN2022TMID03145

1.Connecting the nodes as shown below

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



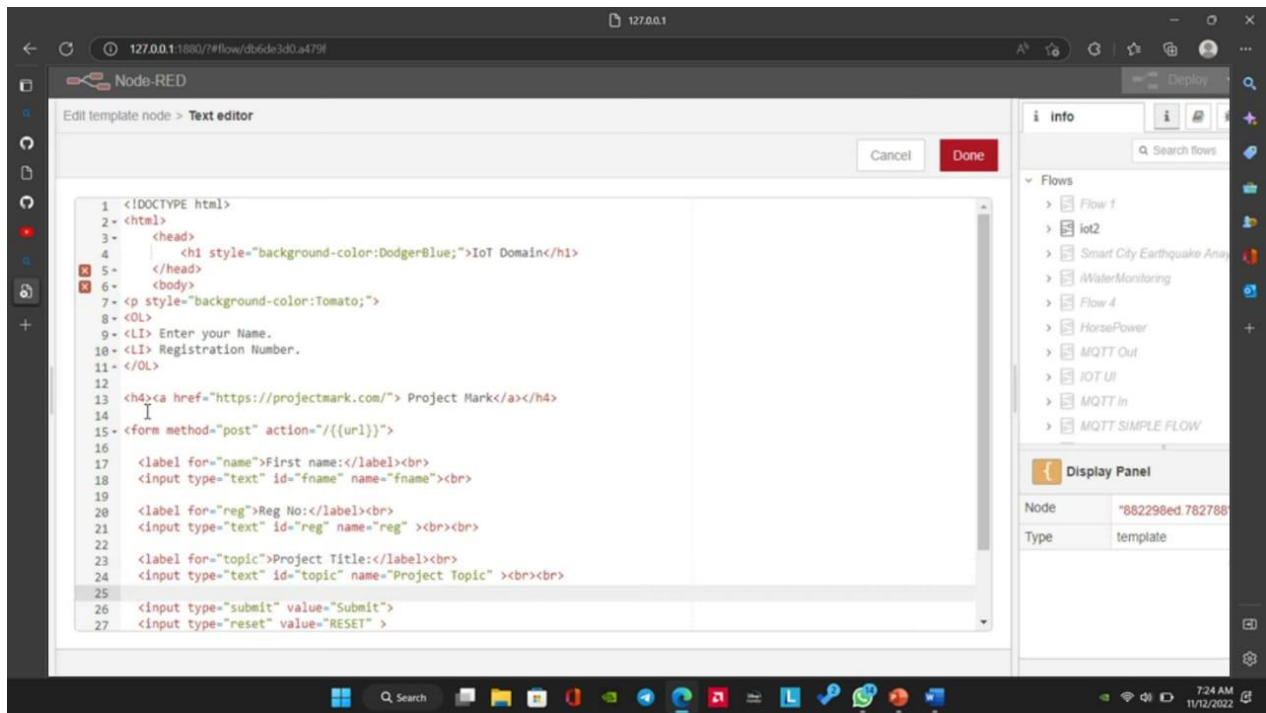
2.Designing the structure of the web page

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, form, and inputs. 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 for dynamic content, such as `Project Mark</h4>` and `Project Mark</h4>`. The right sidebar shows a list of flows and a 'Display Panel' for the selected node, displaying the node ID '882298ed.782788' and the type 'template'.

```
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    </p>
24  </body>
25 </html>
```

3.FINAL OUTPUT

