**TOPIC : SMART PUBLIC RESTROOM**

**HTML CODE:**

<!DOCTYPE html>

<html>

  <head>

    <title>Realtime Restroom Availability and Cleanliness</title>

    <link rel="stylesheet" type="text/css" href="nm.css" >

    <script type="text/javascript">

         // Simulating realtime data updates for restroom statuses

   setInterval(updateStatus, 2000);

function updateStatus() {

  const statuses = ['available', 'occupied', 'clean', 'unclean'];

  for (let i = 1; i <= 4; i++) {

    const randomStatus = statuses[Math.floor(Math.random() \* statuses.length)];

    const statusElement = document.getElementById(`status${i}`);

    const restroomElement = document.getElementById(`restroom${i}`);

    statusElement.textContent = randomStatus.charAt(0).toUpperCase() + randomStatus.slice(1);

    restroomElement.classList.remove('available', 'occupied', 'clean', 'unclean');

    restroomElement.classList.add(randomStatus);

  }

}

    </script>

  </head>

  <body>

    <div class="container">

      <div class="header">

        <h1>Realtime Restroom Availability and Cleanliness</h1>

        <marquee class="move"><i>Be clean , Be healthy</i></marquee>

      </div>

      <div class="restroom-status">

        <div class="status" id="restroom1">

          <h2>Restroom 1</h2>

          <p>Status: <span id="status1">Loading...</span>

             <h4>Female</h4>

        </p>

        </div>

        <div class="status" id="restroom2">

          <h2>Restroom 2</h2>

          <p>Status: <span id="status2">Loading...</span>

            <h4>Female</h4>

         </p>

        </div>

        <div class="status" id="restroom3">

          <h2>Restroom 3</h2>

          <p>Status: <span id="status3">Loading...</span>

            <h4>Male</h4>

         </p>

        </div>

        <div class="status" id="restroom4">

          <h2>Restroom 4</h2>

          <p>Status: <span id="status4">Loading...</span>

            <h4>Male</h4>

        </p>

        </div>

      </div>

      <div class="footer">

        <p> Realtime Restroom Availability and Cleanliness Platform</p>

      </div>

    </div>

  </body>

</html>

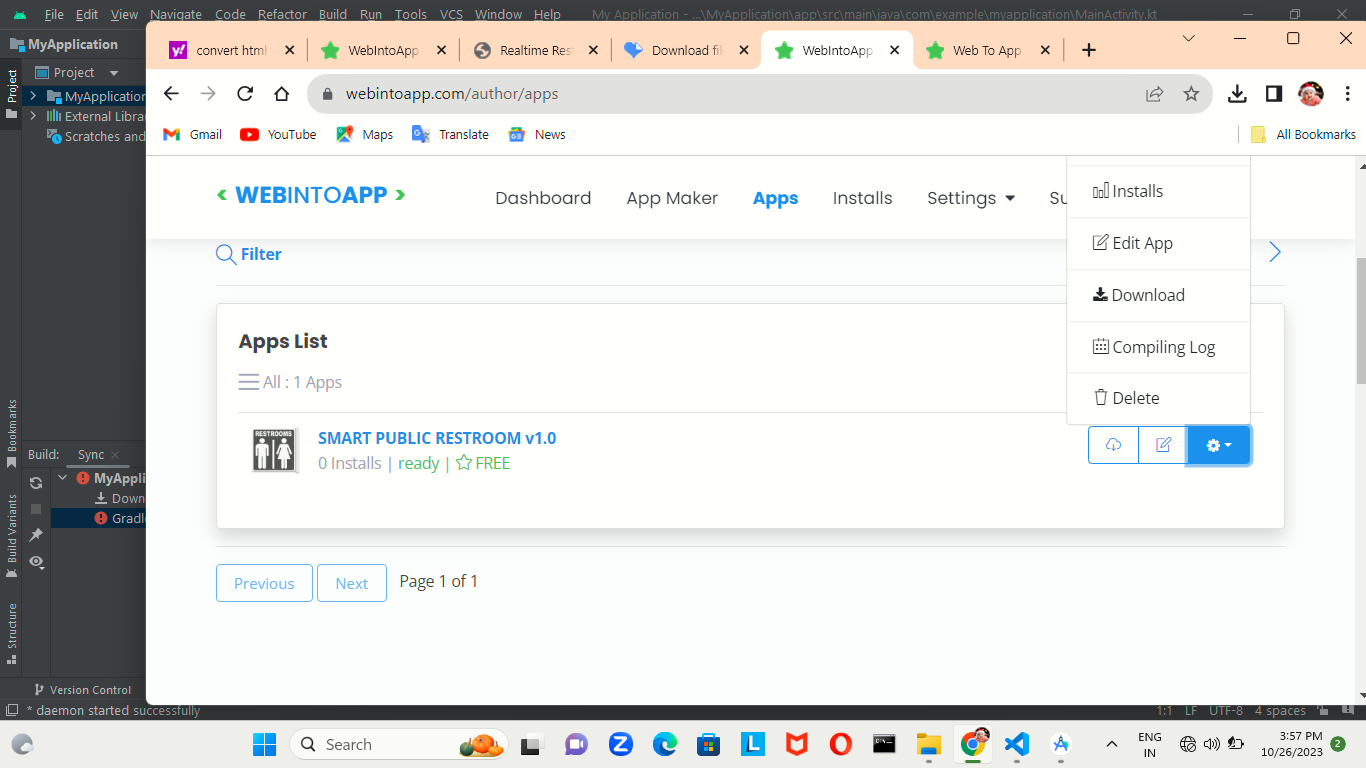
**DESCRIPTION:**

This HTML code describes a webpage for monitoring the real-time availability and cleanliness of restrooms. Here's a textual description of the code's structure and content:

1. The HTML document begins with the **<html>** element and contains a **<head>** and a **<body>** section.
2. Inside the **<head>** section:
   * **<title>**: The title of the webpage is set to "Realtime Restroom Availability and Cleanliness."
   * **<link>**: A link to an external CSS file named "nm.css" is included to apply styles to the page.
   * **<script>**: JavaScript code is provided for simulating real-time updates of restroom statuses. The **updateStatus** function is defined to change the status of four restrooms at regular intervals (every 2 seconds). Each restroom's status is updated randomly from a set of options: "available," "occupied," "clean," and "unclean."
3. Inside the **<body>** section:
   * A **<div>** with the class "container" serves as the main content container for the page.
   * The page is divided into three main sections: "header," "restroom-status," and "footer."
   * In the "header" section:
     + An **<h1>** element displays the title of the webpage.
     + A **<marquee>** element creates a scrolling text with the message "Be clean, Be healthy."
   * In the "restroom-status" section:
     + Four separate **<div>** elements with the class "status" are provided to represent each restroom.
     + Each "status" div includes:
       - An **<h2>** element displaying the restroom number (e.g., "Restroom 1," "Restroom 2," etc.).
       - A **<p>** element indicating the status of the restroom, which is initially set to "Loading..." and updated by the JavaScript function.
       - An **<h4>** element specifying the restroom's gender (e.g., "Female" or "Male").
   * In the "footer" section, a **<p>** element displays the text "Realtime Restroom Availability and Cleanliness Platform."

Overall, the HTML code represents a webpage that provides real-time information about the availability and cleanliness of four restrooms. JavaScript is used to update the status of these restrooms at regular intervals, and the page includes a header, status display for each restroom, and a footer with a brief description of the platform.

**APP ICON:**

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