**EXPERIMENT 3**

FullStack

**Title**

Admin Dashboard with CSS Grid Layout and Theme Switching

**Objective**

Design and build a professional, responsive admin dashboard interface using HTML, CSS Grid layout, and a theme switching feature (light and dark modes). This task focuses on advanced layout skills and the application of design adaptability through theming.

**Task Description**

Create a web-based admin dashboard page that includes the following sections:

* Header: Contains the dashboard title and a theme switch (light/dark).
* Sidebar: Includes navigation links such as Home, Users, and Settings.
* Main Content Area: Placeholder for data visualization, reports, or welcome messages.
* Footer: Displays footer text or copyright.

The page should:

* Use CSS Grid to arrange and align these sections into a clean, professional layout.
* Implement theme switching functionality so that the entire dashboard can switch between light mode and dark mode.
* The switch should update background colors, text colors, and other style elements clearly, without requiring page reload.

CODE

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8" />

  <meta name="viewport" content="width=device-width, initial-scale=1.0"/>

  <title>Karan Singh Dashboard</title>

  <style>

    :root {

      --bg-color: #ffffff;

      --text-color: #000000;

      --primary-color: #6200ea;

      --header-footer-bg: #f1f1f1;

      --sidebar-bg: #e0e0e0;

    }

    [data-theme="dark"] {

      --bg-color: #121212;

      --text-color: #ffffff;

      --primary-color: #bb86fc;

      --header-footer-bg: #1e1e1e;

      --sidebar-bg: #2c2c2c;

    }

    \* {

      margin: 0;

      padding: 0;

      box-sizing: border-box;

      font-family: Arial, sans-serif;

    }

    body {

      background-color: var(--bg-color);

      color: var(--text-color);

      display: grid;

      grid-template-areas:

        "header header"

        "sidebar main"

        "footer footer";

      grid-template-columns: 200px 1fr;

      grid-template-rows: 60px 1fr 40px;

      height: 100vh;

    }

    header {

      grid-area: header;

      background: var(--header-footer-bg);

      display: flex;

      align-items: center;

      justify-content: space-between;

      padding: 0 20px;

    }

    .theme-switch {

      cursor: pointer;

      background: var(--primary-color);

      border: none;

      color: #fff;

      padding: 8px 12px;

      border-radius: 5px;

    }

    aside {

      grid-area: sidebar;

      background: var(--sidebar-bg);

      padding: 20px;

    }

    aside nav a {

      display: block;

      margin-bottom: 10px;

      text-decoration: none;

      color: var(--text-color);

      font-weight: bold;

    }

    main {

      grid-area: main;

      padding: 20px;

    }

    footer {

      grid-area: footer;

      background: var(--header-footer-bg);

      display: flex;

      align-items: center;

      justify-content: center;

    }

  </style>

</head>

<body>

  <header>

    <h1>Karan Singh Dashboard</h1>

    <button class="theme-switch" onclick="toggleTheme()">Switch Theme</button>

  </header>

  <aside>

    <nav>

      <a href="#">Home</a>

      <a href="#">Users</a>

      <a href="#">Settings</a>

    </nav>

  </aside>

  <main>

    <h2>Welcome to the Dashboard</h2>

    <p>This is a placeholder for reports, charts, or data visualizations.</p>

  </main>

  <footer>

    <p>&copy; 2025 Karan Singh. All rights reserved.</p>

  </footer>

  <script>

    function toggleTheme() {

      const currentTheme = document.documentElement.getAttribute("data-theme");

      if (currentTheme === "dark") {

        document.documentElement.removeAttribute("data-theme");

      } else {

        document.documentElement.setAttribute("data-theme", "dark");

      }

    }

  </script>

</body>

</html>

OUTPUT

