

Experiment-3

Admin Dashboard with CSS Grid Layout and Theme Switching

Aim: 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.

INPUT SCREENSHOTS:

```
Exp3(23BIS70162).html > html > body > script
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <title>Admin Dashboard</title>
6 </head>
7 <body>
8   <style>
9     :root {
10       --header-bg: #4CAF50;
11       --footer-bg: #4CAF50;
12       --sidebar-bg: #f0f0f0;
13       --main-bg: #fff;
14       --text-color: #222;
15       --link-color: #4B0082;
16     }
17     .dark-mode {
18       --header-bg: #222;
19       --footer-bg: #222;
20       --sidebar-bg: #333;
21       --main-bg: #111;
22       --text-color: #fff;
23       --link-color: #9A32CD;
24     }
25     body {
26       margin: 0;
27       padding: 0;
28       font-family: Arial, sans-serif;
29       background: var(--main-bg);
30       color: var(--text-color);
31     }
32     .dashboard-grid {
33       min-height: 100vh;
34       display: grid;
35       grid-template-rows: 50px 1fr 35px;
36       grid-template-columns: 200px 1fr;
37       grid-template-areas:
38         "header header"
39         "sidebar main"
40         "footer footer";
41     }
42     header {
43       grid-area: header;
44       background: var(--header-bg);
45       color: #fff;
```

```

46       display: flex;
47       align-items: center;
48       justify-content: space-between;
49       padding: 0 18px;
50       font-size: 1.2em;
51     }
52     .theme-switch {
53       font-size: 0.9em;
54     }
55     aside {
56       grid-area: sidebar;
57       background: var(--sidebar-bg);
58       padding: 20px 10px;
59     }
60     aside ul {
61       list-style: none;
62       padding: 0;
63     }
64     aside ul li {
65       margin-bottom: 15px;
66     }
67     aside a {
68       color: var(--link-color);
69       text-decoration: underline;
70       font-size: 1.01em;
71     }
72     main {
73       grid-area: main;
74       background: var(--main-bg);
75       padding: 28px 34px;
76     }
77     main h2 {
78       margin-top: 0;
79     }
80     footer {
81       grid-area: footer;
82       background: var(--footer-bg);
83       color: #fff;
84       text-align: center;
85       line-height: 35px;
```

```

86       font-size: 0.97em;
87       letter-spacing: 1px;
88     }
89   }
90   @media (max-width: 700px) {
91     .dashboard-grid {
92       grid-template-columns: 120px 1fr;
93     }
94     main {
95       padding: 12px 7px;
96     }
97   }
98 </style>
99 <div class="dashboard-grid" id="dashboard">
100   <header>
101     <span><strong>Admin Dashboard</strong></span>
102     <span class="theme-switch">
103       <input type="checkbox" id="theme-toggle">
104       <label for="theme-toggle">Dark Mode</label>
105     </span>
106   </header>
107   <aside>
108     <ul>
109       <li><a href="#">Home</a></li>
110       <li><a href="#">Users</a></li>
111       <li><a href="#">Settings</a></li>
112     </ul>
113   </aside>
114   <main>
115     <h2>Welcome, Admin!</h2>
116     <p>This is the main content area. Add charts, tables, or reports here.</p>
117   </main>
118   <footer>
119     &copy; 2025 Admin Panel
120   </footer>
121 </div>
122 <script>
123
124   const toggle = document.getElementById('theme-toggle');
125   const dashboard = document.getElementById('dashboard');
```

```

127
128   if(localStorage.getItem('dashboard-theme') === 'dark') {
129     document.body.classList.add('dark-mode');
130     toggle.checked = true;
131   }
132
133   toggle.addEventListener('change', function () {
134     if(this.checked) {
135       document.body.classList.add('dark-mode');
136       localStorage.setItem('dashboard-theme', 'dark');
137     } else {
138       document.body.classList.remove('dark-mode');
139       localStorage.setItem('dashboard-theme', 'light');
140     }
141   });
142 </script>
143 </body>
144 </html>
145
```

OUTPUT SCREENSHOTS:

