

Experiment-3

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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.

Input

HTML

```
Experiment_3.html > html > body.light-theme > div.dashboard > header.header
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8" />
5      <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
6      <title>Admin Dashboard</title>
7      <link rel="stylesheet" href="Experiment_3.css" />
8  </head>
9  <body class="light-theme">
10     <div class="dashboard">
11         <header class="header">
12             <h1>Admin Dashboard</h1>
13             <label>
14                 <input type="checkbox" id="themeToggle" />
15                 Dark Mode
16             </label>
17         </header>
18         <aside class="sidebar">
19             <ul>
20                 <li><a href="#">Home</a></li>
21                 <li><a href="#">Users</a></li>
22                 <li><a href="#">Settings</a></li>
23             </ul>
24         </aside>
25         <main class="main">
26             <h2>Welcome, Admin!</h2>
27             <p>This is the main content area. Add charts, tables, or reports here.</p>
28         </main>
29         <footer class="footer">
30             &copy; 2025 Admin Panel
31         </footer>
32     </div>
```

```

33     <script>
34         const toggle = document.getElementById('themeToggle');
35         const body = document.body;
36         toggle.addEventListener('change', () => {
37             body.classList.toggle('dark-theme');
38             body.classList.toggle('light-theme');
39         });
40     </script>
41 </body>
42 </html>
43

```

CSS Stylesheet

Experiment_3.css > ...

```

1  body {
2      margin: 0;
3      font-family: Arial, sans-serif;
4      transition: background 0.3s, color 0.3s;
5  }
6
7  .dashboard {
8      display: grid;
9      grid-template-areas:
10         "header header"
11         "sidebar main"
12         "footer footer";
13      grid-template-columns: 200px 1fr;
14      grid-template-rows: auto 1fr auto;
15      min-height: 100vh;
16  }
17  .header {
18      grid-area: header;
19      display: flex;
20      justify-content: space-between;
21      align-items: center;
22      padding: 1rem;
23      font-weight: bold;
24  }
25  .sidebar {
26      grid-area: sidebar;
27      padding: 1rem;
28  }
29  .sidebar ul {
30      list-style: none;
31      padding: 0;
32  }
33  .sidebar a {
34      text-decoration: none;
35  }

```

```

.main {
    grid-area: main;
    padding: 2rem;
}

```

```

.footer {
    grid-area: footer;
    text-align: center;
    padding: 1rem;
}

```

```

.light-theme {
    --bg: #ffffff;
    --text: #000000;
    --header-bg: #4caf50;
    --sidebar-bg: #f0f0f0;
    --footer-bg: #4caf50;
    --link: purple;
}

```

```

.light-theme {
    background-color: var(--bg);
    color: var(--text);
}

```

```

.light-theme .header,
.light-theme .footer {
    background-color: var(--header-bg);
    color: white;
}

```

```
.light-theme .sidebar {  
  background-color: var(--sidebar-bg);  
}
```

```
.light-theme a {  
  color: var(--link);  
}
```

```
.dark-theme {  
  --bg: #111;  
  --text: #eee;  
  --header-bg: #222;  
  --sidebar-bg: #333;  
  --footer-bg: #222;  
  --link: #c084fc;  
}
```

```
.dark-theme {  
  background-color: var(--bg);  
  color: var(--text);  
}
```

```
.dark-theme .header,  
.dark-theme .footer {  
  background-color: var(--header-bg);  
  color: white;  
}
```

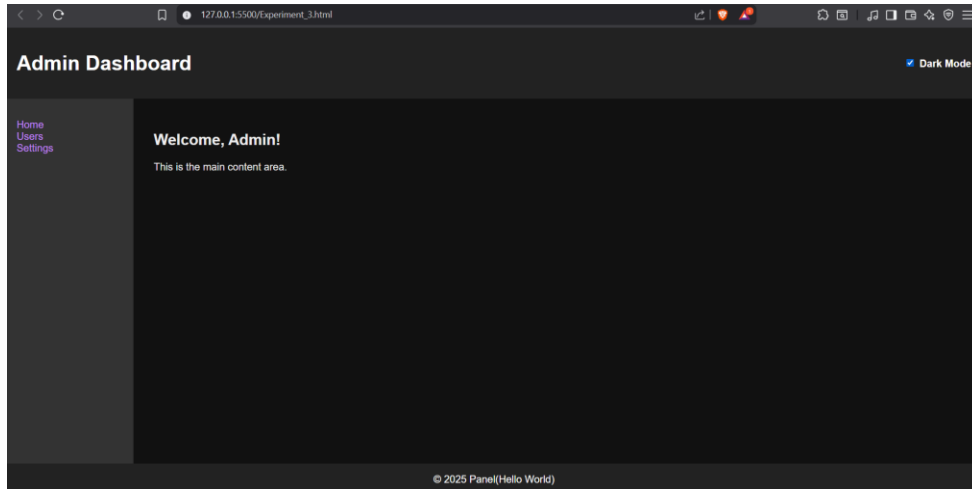
```
.dark-theme .sidebar {  
  background-color: var(--sidebar-bg);  
}
```

```
.dark-theme a {  
  color: var(--link);  
}
```

```
@media (max-width: 768px) {  
  .dashboard {  
    grid-template-areas:  
      "header"  
      "sidebar"  
      "main"  
      "footer";  
    grid-template-columns: 1fr;  
  }  
}
```

Output

Dark mode



Light Mode

