## **Experiment: Admin Dashboard with CSS Grid Layout and Theme Switching**

### Aim:

To design and build a professional, responsive admin dashboard interface using HTML, CSS Grid layout, and a theme switching feature (light and dark modes).

### **Tools Used:**

```
    HTML5
    CSS3 (CSS Grid, Transitions)
    JavaScript (for theme switching)
    Text Editor (e.g., VS Code)
    Web Browser (for output visualization)
```

### Code:

Combined HTML, CSS, and JavaScript Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<title>Admin Dashboard</title>
<style>
 body {
  margin: 0;
  font-family: Arial, sans-serif;
 }
 .container {
  display: grid;
  grid-template-areas:
   'header header'
   'nav main'
   'footer footer';
  grid-template-columns: 200px 1fr;
  grid-template-rows: auto 1fr auto;
  height: 100vh;
 }
 header {
  grid-area: header;
```

```
background: #4caf50;
 color: white;
 padding: 1rem;
 display: flex;
 justify-content: space-between;
 align-items: center;
}
nav {
 grid-area: nav;
 background: #eee;
 padding: 1rem;
}
nav ul {
list-style: none;
 padding: 0;
nav ul li {
 margin: 10px 0;
}
nav ul li a {
 text-decoration: none;
 color: #4caf50;
 font-weight: bold;
}
main {
 grid-area: main;
 padding: 2rem;
footer {
 grid-area: footer;
 background: #4caf50;
 text-align: center;
 padding: 1rem;
 color: white;
.dark-mode {
 background: #121212;
 color: white;
}
.dark-mode header,
.dark-mode footer {
 background: #333;
}
```

```
.dark-mode nav {
  background: #1e1e1e;
 }
 .dark-mode nav ul li a {
  color: #bbb;
 }
</style>
</head>
<body class="light-mode">
<div class="container">
 <header>
  <h1>Admin Dashboard</h1>
  <label><input type="checkbox" id="themeToggle" /> Dark Mode</label>
 </header>
  <nav>
  ul>
   <a href="#">Home</a>
   <a href="#">Users</a>
   <a href="#">Settings</a>
  </nav>
  <main>
  <h2>Welcome, Admin!</h2>
  This is the main content area. Add charts, tables, or reports here.
 </main>
 <footer>© 2025 Admin Panel</footer>
 </div>
 <script>
 const toggle = document.getElementById('themeToggle');
 toggle.addEventListener('change', () => {
  document.body.classList.toggle('dark-mode');
  document.body.classList.toggle('light-mode');
 });
</script>
</body>
</html>
```

### **Procedure:**

- 1. Open VS Code and create a new HTML file named index.html.
- 2. Copy and paste the provided combined code into the file.
- 3. Save the file and right-click to open with Live Server (or open directly in the browser).

- 4. The page will show a light-themed admin dashboard.
- 5. Use the checkbox in the top-right corner to toggle dark mode dynamically.
- 6. The layout should remain structured using CSS Grid and update theme styles instantly.

### **Result:**

The admin dashboard was successfully created with a clean layout using CSS Grid and supports light/dark theme switching without reloading the page.

# **Expected Output:**

The expected output includes two visual representations of the Admin Dashboard:

- 1. Light Mode
- 2. Dark Mode



