# Experiment: 3

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**Aim -** Admin Dashboard with CSS Grid Layout and Theme Switching

**Description -** This HTML code creates a responsive Admin Dashboard using CSS Grid layout with a header, sidebar, main content, and footer. It supports light and dark themes, toggled via a checkbox using JavaScript. CSS variables make theming easy, and a media query ensures mobile-friendly layout. Navigation links are placed in the sidebar for easy access.

Code -
HTML

```html
<!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>
    :root {
      --bg-color: #ffffff;
      --text-color: #000000;
      --header-footer-bg: #4CAF50;
      --sidebar-bg: #f0f0f0;
      --link-color: #0000ee;
    }

    body.dark-mode {
      --bg-color: #121212;
      --text-color: #f0f0f0;
      --header-footer-bg: #333;
      --sidebar-bg: #2c2c2c;
      --link-color: #bb86fc;
    }
```

```css
body {
  margin: 0;
  font-family: Arial, sans-serif;
  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: auto 1fr auto;
  height: 100vh;
}

header {
  grid-area: header;
  background-color: var(--header-footer-bg);
  padding: 1rem;
  display: flex;
  justify-content: space-between;
  align-items: center;
  color: white;
  font-weight: bold;
}

.toggle {
  display: flex;
  align-items: center;
  gap: 0.5rem;
  font-weight: normal;
}

aside {
  grid-area: sidebar;
  background-color: var(--sidebar-bg);
  padding: 1rem;
}

main {
  grid-area: main;
  padding: 1.5rem;
}
```

```css
    footer {
      grid-area: footer;
      background-color: var(--header-footer-bg);
      color: white;
      text-align: center;
      padding: 0.75rem;
    }

    a {
      display: block;
      margin-bottom: 0.75rem;
      color: var(--link-color);
      text-decoration: none;
    }

    a:hover {
      text-decoration: underline;
    }

    @media (max-width: 600px) {
      body {
        grid-template-areas:
          "header"
          "main"
          "sidebar"
          "footer";
        grid-template-columns: 1fr;
        grid-template-rows: auto 1fr auto auto;
      }

      aside {
        order: 1;
      }
    }
  </style>
</head>
<body>
  <header>
    <div>Admin Dashboard</div>
    <div class="toggle">
      <input type="checkbox" id="themeToggle" />
      <label for="themeToggle">Dark Mode</label>
    </div>
```

```html
    </header>

    <aside>
      <a href="#">Home</a>
      <a href="#">Users</a>
      <a href="#">Settings</a>
    </aside>

    <main>
      <h2>Welcome, Admin!</h2>
      <p>This is the main content area. Add charts, tables, or reports here.</p>
    </main>

    <footer>
      &copy; 2025 Admin Panel
    </footer>

    <script>
      const toggle = document.getElementById('themeToggle');
      toggle.addEventListener('change', () => {
        document.body.classList.toggle('dark-mode');
      });
    </script>
</body>
</html>
```

CSS:
```css
:root {
  --bg-color: #ffffff;
  --text-color: #000000;
  --header-footer-bg: #4CAF50;
  --sidebar-bg: #f0f0f0;
  --link-color: #0000ee;
}

body.night-mode {
  --bg-color: #121212;
  --text-color: #f0f0f0;
  --header-footer-bg: #333;
  --sidebar-bg: #2c2c2c;
  --link-color: #bb86fc;
}

body {
```

```css
  margin: 0;
  font-family: Arial, sans-serif;
  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: auto 1fr auto;
  height: 100vh;
}

header {
  grid-area: header;
  background-color: var(--header-footer-bg);
  padding: 1rem;
  display: flex;
  justify-content: space-between;
  align-items: center;
  color: white;
  font-weight: bold;
}

.toggle {
  display: flex;
  align-items: center;
  gap: 0.5rem;
  font-weight: normal;
}

aside {
  grid-area: sidebar;
  background-color: var(--sidebar-bg);
  padding: 1rem;
}

main {
  grid-area: main;
  padding: 1.5rem;
}

footer {
```

```css
  grid-area: footer;
  background-color: var(--header-footer-bg);
  color: white;
  text-align: center;
  padding: 0.75rem;
}

a {
  display: block;
  margin-bottom: 0.75rem;
  color: var(--link-color);
  text-decoration: none;
}

a:hover {
  text-decoration: underline;
}

@media (max-width: 600px) {
  body {
    grid-template-areas:
      "header"
      "main"
      "sidebar"
      "footer";
    grid-template-columns: 1fr;
    grid-template-rows: auto 1fr auto auto;
  }

  aside {
    order: 1;
  }
}
```

## Output -

**Admin Dashboard**                                      ☑ Dark Mode

Home
Users
Settings

### Welcome, Admin!

This is the main content area. Add charts, tables, or reports here.

© 2025 Admin Panel

**Admin Dashboard**                                      ☐ Dark Mode

Home
Users
Settings

## Welcome, Admin!

This is the main content area. Add charts, tables, or reports here.

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