

# Experiment 3

Develop an admin dashboard with CSS Grid layout and dynamic theme switching.

## CODE:

### HTML 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>
  <link rel="stylesheet" href="style.css">
</head>
<body>

  <div class="dashboard" id="dashboard">
    <header class="header">
      <h2>Dashboard</h2>
      <div class="theme-switcher">
        <button id="theme-toggle">Switch Theme</button>
      </div>
    </header>

    <aside class="sidebar">
      <nav>
        <ul>
          <li><a href="#">Overview</a></li>
          <li><a href="#">Users</a></li>
          <li><a href="#">Products</a></li>
          <li><a href="#">Settings</a></li>
        </ul>
      </nav>
    </aside>

    <main class="main-content">
      <div class="card">
        <h3>Total Sales</h3>
        <p>$12,450</p>
      </div>
      <div class="card">
        <h3>New Users</h3>
        <p>1,234</p>
      </div>
      <div class="card">
        <h3>Active Projects</h3>
        <p>25</p>
      </div>
      <div class="card">
        <h3>Support Tickets</h3>
        <p>8</p>
      </div>
    </main>
  </div>

  <script src="script.js"></script>
</body>
</html>
```

## CSS CODE:

```
:root {
  --bg-color: #f0f2f5;
  --text-color: #333;
  --card-bg: #fff;
  --sidebar-bg: #2c3e50;
  --sidebar-text: #ecf0f1;
  --header-bg: #fff;
  --header-border: #ddd;
  --accent-color: #3498db;
  --box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);
}

:root.dark-theme {
  --bg-color: #121212;
  --text-color: #e0e0e0;
  --card-bg: #1e1e1e;
  --sidebar-bg: #212121;
  --sidebar-text: #b0b0b0;
  --header-bg: #1e1e1e;
  --header-border: #333;
  --accent-color: #8e44ad;
  --box-shadow: 0 2px 4px rgba(0, 0, 0, 0.4);
}

body {
  font-family: sans-serif;
  margin: 0;
  background-color: var(--bg-color);
  color: var(--text-color);
  transition: background-color 0.3s, color 0.3s;
}

.dashboard {
  display: grid;
  grid-template-columns: 250px 1fr;
  grid-template-rows: auto 1fr;
  height: 100vh;
}

.header {
  grid-column: 2 / 3;
  display: flex;
  justify-content: space-between;
  align-items: center;
  padding: 1rem 2rem;
  background-color: var(--header-bg);
  border-bottom: 1px solid var(--header-border);
  box-shadow: var(--box-shadow);
}

.sidebar {
  grid-row: 1 / 3;
  background-color: var(--sidebar-bg);
  color: var(--sidebar-text);
  padding: 1rem;
  box-shadow: var(--box-shadow);
}

.sidebar ul {
  list-style: none;
  padding: 0;
}
```

```
.sidebar li a {
  display: block;
  padding: 0.8rem 1rem;
  color: var(--sidebar-text);
  text-decoration: none;
  transition: background-color 0.2s;
}

.sidebar li a:hover {
  background-color: var(--accent-color);
}

.main-content {
  padding: 2rem;
  display: grid;
  grid-template-columns: repeat(auto-fit, minmax(250px, 1fr));
  gap: 1.5rem;
  overflow-y: auto;
}

.card {
  background-color: var(--card-bg);
  padding: 1.5rem;
  border-radius: 8px;
  box-shadow: var(--box-shadow);
  transition: transform 0.2s;
}

.card:hover {
  transform: translateY(-5px);
}

button {
  padding: 0.5rem 1rem;
  background-color: var(--accent-color);
  color: white;
  border: none;
  border-radius: 4px;
  cursor: pointer;
  transition: background-color 0.2s;
}

button:hover {
  background-color: #2980b9;
}

@media (max-width: 768px) {
  .dashboard {
    grid-template-columns: 1fr;
    grid-template-rows: auto auto 1fr;
  }

  .header {
    grid-column: 1 / 2;
  }

  .sidebar {
    grid-row: 2 / 3;
    grid-column: 1 / 2;
    padding: 0;
  }

  .sidebar nav ul {
    display: flex;
    justify-content: space-around;
  }
}
```

```
padding: 0.5rem;
}

.main-content {
  grid-column: 1 / 2;
}
}
```

## JAVASCRIPT CODE:

```
const themeToggleBtn = document.getElementById('theme-toggle');
const body = document.body;
const currentTheme = localStorage.getItem('theme');

if (currentTheme) {
  body.classList.add(currentTheme);
}

themeToggleBtn.addEventListener('click', () => {
  body.classList.toggle('dark-theme');
  const newTheme = body.classList.contains('dark-theme') ? 'dark-theme' : '';
  localStorage.setItem('theme', newTheme);
});
```

## OUTPUTS

### EXPERIMENT 3

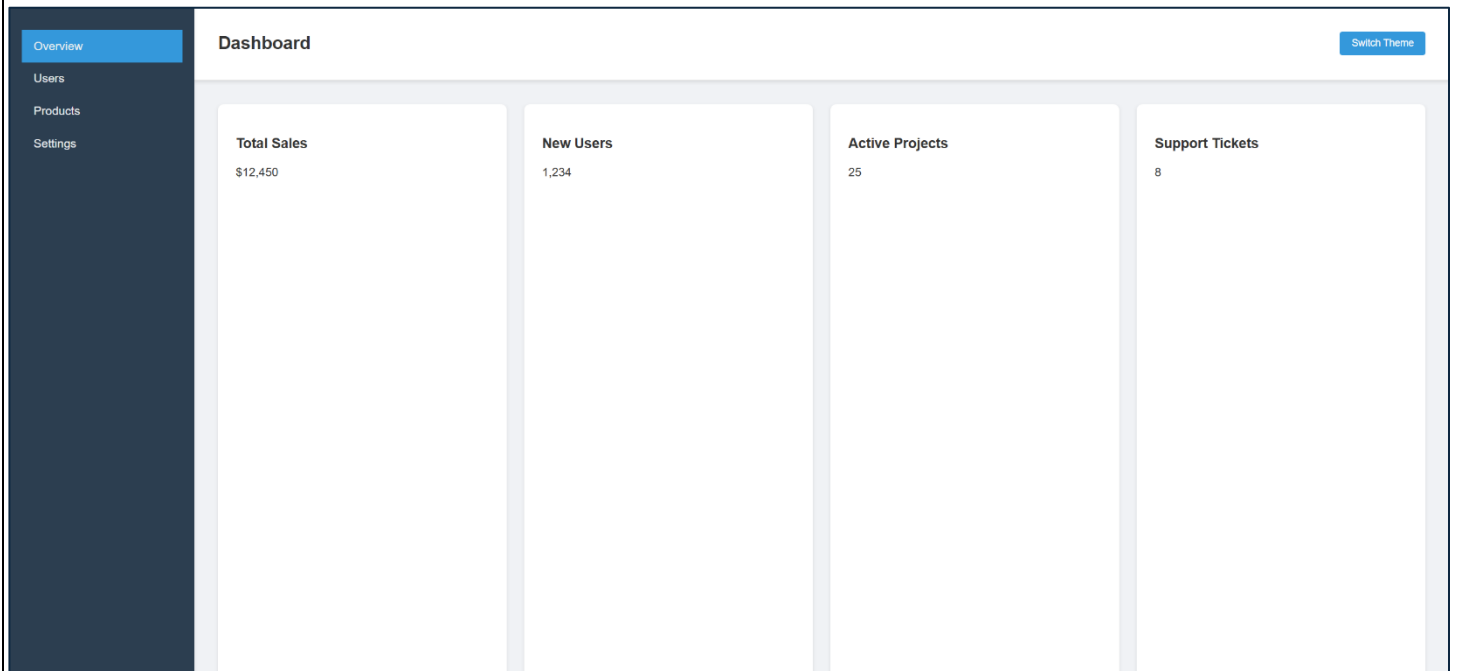


Figure 1: OUTPUT OF EXPERIMENT 3