

**Subject - Full Stack**

**Name - AKASH**

**UID - 23BCC70039**

**Experiment 1.3 :** Admin Dashboard with CSS Grid

**Aim**

To build an admin dashboard with dynamic theming using CSS Grid and JavaScript.

**Objectives**

Create grid-based layout

Implement dark/light mode toggle

Design responsive sidebar

Add data visualization placeholders

Persist theme preference using localStorage

**Code Implementation**

**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>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <div class="dashboard">

    <!-- Sidebar -->
    <aside class="sidebar">
      <h2>Admin Panel</h2>
      <nav>
        <a href="#">Dashboard</a>
        <a href="#">Users</a>
        <a href="#">Reports</a>
        <a href="#">Settings</a>
      </nav>
    </aside>
```

```

<!-- Main Content -->
<main class="main-content">
  <header class="header">
    <h1>Dashboard Overview</h1>
    <button id="themeToggle">🌙 Dark Mode</button>
  </header>

  <section class="cards">
    <div class="card">Total Users<br><strong>120</strong></div>
    <div class="card">Active Sessions<br><strong>45</strong></div>
    <div class="card">Revenue<br><strong>$3,200</strong></div>
    <div class="card">New Signups<br><strong>12</strong></div>
  </section>

  <section class="charts">
    <div class="chart-placeholder"><img alt="Bar chart icon" data-bbox="461 361 484 381"/> Chart 1</div>
    <div class="chart-placeholder"><img alt="Line chart icon" data-bbox="461 378 484 398"/> Chart 2</div>
  </section>
</main>

</div>

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

```

## **CSS**

```

:root {
  --bg-color: #f4f4f4;
  --text-color: #333;
  --card-bg: #fff;
  --sidebar-bg: #2c3e50;
  --sidebar-text: #ecf0f1;
}

body.dark {
  --bg-color: #1e1e1e;
  --text-color: #f4f4f4;
  --card-bg: #2b2b2b;
  --sidebar-bg: #111;
  --sidebar-text: #bbb;
}

body {
  margin: 0;

```

```
    font-family: Arial, sans-serif;
    background-color: var(--bg-color);
    color: var(--text-color);
}

/* Grid Layout */
.dashboard {
    display: grid;
    grid-template-columns: 250px 1fr;
    min-height: 100vh;
}

/* Sidebar */
.sidebar {
    background-color: var(--sidebar-bg);
    padding: 20px;
    color: var(--sidebar-text);
}

.sidebar h2 {
    margin-top: 0;
}

.sidebar nav a {
    display: block;
    color: var(--sidebar-text);
    text-decoration: none;
    padding: 10px 0;
}

.sidebar nav a:hover {
    text-decoration: underline;
}

/* Main Content */
.main-content {
    display: flex;
    flex-direction: column;
    padding: 20px;
}

.header {
    display: flex;
    justify-content: space-between;
    align-items: center;
}

button {
```

```

padding: 8px 12px;
cursor: pointer;
}

/* Cards Section */
.cards {
  display: grid;
  grid-template-columns: repeat(auto-fit, minmax(150px, 1fr));
  gap: 15px;
  margin-top: 20px;
}

.card {
  background: var(--card-bg);
  padding: 15px;
  border-radius: 8px;
  box-shadow: 0 2px 5px rgba(0,0,0,0.1);
  text-align: center;
}

/* Charts Section */
.charts {
  display: grid;
  grid-template-columns: 1fr 1fr;
  gap: 15px;
  margin-top: 20px;
}

.chart-placeholder {
  background: var(--card-bg);
  padding: 40px;
  border-radius: 8px;
  text-align: center;
  font-size: 1.2em;
}

/* Responsive */
@media (max-width: 768px) {
  .dashboard {
    grid-template-columns: 1fr;
  }
  .sidebar {
    grid-row: 1;
  }
}

```

## **JavaScript**

```
const themeToggle = document.getElementById("themeToggle");
const body = document.body;

// Load saved theme from localStorage
if (localStorage.getItem("theme") === "dark") {
  body.classList.add("dark");
  themeToggle.textContent = "☀️ Light Mode";
}

// Theme Toggle
themeToggle.addEventListener("click", () => {
  body.classList.toggle("dark");
  if (body.classList.contains("dark")) {
    themeToggle.textContent = "☀️ Light Mode";
    localStorage.setItem("theme", "dark");
  } else {
    themeToggle.textContent = "🌙 Dark Mode";
    localStorage.setItem("theme", "light");
  }
});
```

## **Output**

# Admin Panel

Dashboard

Users

Reports

Settings

## Dashboard Overview

 Dark Mode

Total Users  
**120**

Active Sessions  
**45**

Revenue  
**\$3,200**

New Signups  
**12**



Chart  
1



Chart  
2

