**Experiment 2**

Aim:-To create a responsive admin dashboard with CSS Grid and JavaScript, enabling structured layout and dynamic light-dark theme switching.

Objective:- Design a structured admin dashboard using CSS Grid, implement dynamic theme switching with JavaScript, maintain responsive layout, use CSS variables, and enhance user experience with smooth transitions and visually appealing interface.

Description:-This experiment demonstrates the creation of a responsive admin dashboard using HTML, CSS Grid, and JavaScript. It structures the header, sidebar, main content, and footer while implementing dynamic light-dark theme switching, enhancing user experience, interface aesthetics, usability, and providing a scalable design suitable for real-world administrative applications.

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 class="light">

<div class="dashboard">

<header class="header">

<h1>Admin Dashboard</h1>

<button id="theme-toggle">Toggle Theme</button>

</header>

<aside class="sidebar">

<nav>

<a href="#">Home</a>

<a href="#">Users</a>

<a href="#">Settings</a>

</nav>

</aside>

<main class="main">

<h2>Welcome, Admin!</h2>

<p>This is your dashboard. Monitor everything here.</p>

<div class="placeholder">[ Data Visualization Placeholder ]</div>

</main>

<footer class="footer">

&copy; 2025 Admin Panel. All rights reserved.

</footer>

</div>

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

</body>

</html> 

Css code::root {

--bg-color: #ffffff;

--text-color: #000000;

--header-bg: #f0f0f0;

--sidebar-bg: #e0e0e0;

}

body.dark {

--bg-color: #121212;

--text-color: #f0f0f0;

--header-bg: #1f1f1f;

--sidebar-bg: #2c2c2c;

}

body {

margin: 0;

font-family: "Segoe UI", sans-serif;

background-color: var(--bg-color);

color: var(--text-color);

transition: all 0.3s ease;

}

.dashboard {

display: grid;

grid-template-areas:

"header header"

"sidebar main"

"footer footer";

grid-template-columns: 250px 1fr;

grid-template-rows: 60px 1fr 40px;

height: 100vh;

}

.header {

grid-area: header;

background-color: var(--header-bg);

display: flex;

justify-content: space-between;

align-items: center;

padding: 0 20px;

}

.sidebar {

grid-area: sidebar;

background-color: var(--sidebar-bg);

padding: 20px;

}

.sidebar nav a {

display: block;

margin: 10px 0;

color: var(--text-color);

text-decoration: none;

}

.main {

grid-area: main;

padding: 20px;

}

.placeholder {

margin-top: 20px;

padding: 20px;

background-color: #ccc;

color: #333;

text-align: center;

}

.footer {

grid-area: footer;

background-color: var(--header-bg);

text-align: center;

line-height: 40px;

}

Java script:

const toggleButton = document.getElementById("theme-toggle");

toggleButton.addEventListener("click", () => {

document.body.classList.toggle("dark");

});