Experiment 1.2

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Semester: 5th   Date of Performance: 10th Sept, 2025

Subject Name: Full Stack   Subject Code: 23CSP-339

1. Problem Title: To build an admin dashboard with dynamic theming using CSS Grid and JavaScript.

2. Problem Description:
   a. Create grid-based layout
   b. Implement dark/light mode toggle
   c. Design responsive sidebar
   d. Add data visualization placeholders
   e. Persist theme preference using localStorage .

3. Hardware Requirements:
   a. Processor: Intel i3/ Ryzen 3 or higher.
   b. RAM: 4GB minimum.
   c. Display: 1366x768 resolution.

4. HTML:

```html
<!DOCTYPE html>
<head>
<title>Admin dashboard</title>
<link rel = "stylesheet" href = "1.3.css">
</head>
<body class = "Light">
<div class = "dashboard">
```

```html
<div class = "header">
<h1>Admin Dashboard</h1>
<label>
<input type = "checkbox" id = "toggleTheme">
Light Mode
</label>
</div>
<div class = "sidebar">
<ul>
<li><a href = "https://www.youtube.com">Home</a></li>
<li><a href = "https://www.wikipedia.com">Users</a></li>
<li><a href = "https://www.google.com">Settings</a></li>
</ul>
</div>
<div class = "main">
<h2>Welcome to the Admin Dashboard</h2>
<p>This is a simple admin dashboard layout.</p>
</div>
<div class = "footer">
<p>&copy; Chandigarh University</p>
</div>
</div>
<script src = "1.3.js"></script>
</body>
</html>
```

5. CSS:

```css
body{
    margin : 0;
    font-family: arial;
}
.dashboard{
    display: grid;
```

```css
    grid-template-areas: "header header" "sidebar main" "footer footer";

    grid-template-columns: 200px auto;

    grid-template-rows: 60px auto 50px;

    height: 100vh;

}

.header{

    grid-area: header;

    background-color: #4CAF50;

    color: white;

    display: flex;

    justify-content: space-between;

    align-items: center;

    padding: 0 20px;

}

.sidebar{

    grid-area: sidebar;

    background-color: #f0f0f0;

    padding: 30px;

}

.main{

    grid-area: main;

    padding: 20px;

    background-color: #ffffff;

    font-size: 14px;

}

.footer{

    grid-area: footer;

    background-color: #4CAF50;

    color: white;

    text-align: center;

}
```

```css
ul{

    padding: 0;

    margin: 0;

}

li{

    margin: 0;

}

body.light{

    background-color: #ffffff;

}

body.dark{

    background-color: #333;

    color: hsl(0, 0%, 94%);

}

body.dark .header{

    background-color: #2a2929;

}

body.dark .sidebar{

    background-color: #2c2b2b;

}

body.dark .footer{

    background-color: #292929;

}

body.dark .main{

    background-color: #191919;

    color : #f0f0f0;

}
```

6. JavaScript:

```javascript
const button = document.getElementById("toggleTheme");
const body = document.body;
button.addEventListener("click", function() {
```

```
if (body.classList.contains("light"))
{
    body.classList.remove("light");
    body.classList.add("dark");
}
else
{
    body.classList.remove("dark");
    body.classList.add("light");
}
});
```

7. Learning Outcome:

    a. Learnt how to link and connect the script.js and css file with the Html.

    b. Learnt how to work with html file.

    c. Learnt how to write js file and css.