



**CHANDIGARH
UNIVERSITY**
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Experiment 1.2

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Branch: BE-AIT-CSE

Semester: 5th

Subject Name: Full Stack

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Section/Group: 23AML_KRG-1

Date of Performance: 10th Sept, 2025

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:

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

```

<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:

```

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

```

```
    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;
}
```

```

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:

```

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.