

Experiment - 3

Aim - Admin Dashboard with CSS Grid Layout and Theme Switching

Objective - Admin Dashboard with CSS Grid Layout and Theme Switching

Tools used - Vs Code

Code - 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="exp3.css" />
</head>
<body class="light">
  <div class="dashboard">
    <header>
      <h1>Admin Dashboard</h1>
      <label>
```

```
<input type="checkbox" id="themeToggle" />
```

```
Dark Mode
```

```
</label>
```

```
</header>
```

```
<aside>
```

```
<nav>
```

```
<ul>
```

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

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

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

```
</ul>
```

```
</nav>
```

```
</aside>
```

```
<main>
```

```
<h2>Welcome, Admin!</h2>
```

```
<p>This is the main content area. Add charts, tables,  
or reports here.</p>
```

```
</main>
```

```
<footer>
```

```
&copy; 2025 Admin Panel
```

</footer>

</div>

<script src="exp3.js"></script>

</body>

</html>

CSS:

/* General Reset */

```
* {  
  margin: 0;  
  padding: 0;  
  box-sizing: border-box;  
}
```

```
body.light {  
  --bg: #ffffff;  
  --text: #000000;  
  --header: #4CAF50;  
  --sidebar: #f0f0f0;  
  --footer: #4CAF50;  
  --link: blue;  
}
```

```
body.dark {  
  --bg: #1e1e1e;  
  --text: #ffffff;  
  --header: #222;  
  --sidebar: #2c2c2c;  
  --footer: #222;  
  --link: violet;  
}
```

```
body {  
  background-color: var(--bg);  
  color: var(--text);  
  font-family: Arial, sans-serif;  
  min-height: 100vh;  
}
```

```
.dashboard {  
  display: grid;  
  grid-template-areas:  
    "header header"  
    "sidebar main"  
    "footer footer";
```

```
grid-template-columns: 200px 1fr;  
grid-template-rows: auto 1fr auto;  
min-height: 100vh;  
}
```

```
/* Layout sections */
```

```
header {  
  grid-area: header;  
  background-color: var(--header);  
  color: white;  
  padding: 15px 20px;  
  display: flex;  
  justify-content: space-between;  
  align-items: center;  
}
```

```
aside {  
  grid-area: sidebar;  
  background-color: var(--sidebar);  
  padding: 20px;  
}
```

```
main {
```

```
    grid-area: main;  
    padding: 20px;  
}
```

```
footer {  
    grid-area: footer;  
    background-color: var(--footer);  
    color: white;  
    text-align: center;  
    padding: 10px;  
}
```

```
/* Links */
```

```
a {  
    color: var(--link);  
    text-decoration: none;  
    display: block;  
    margin: 10px 0;  
}
```

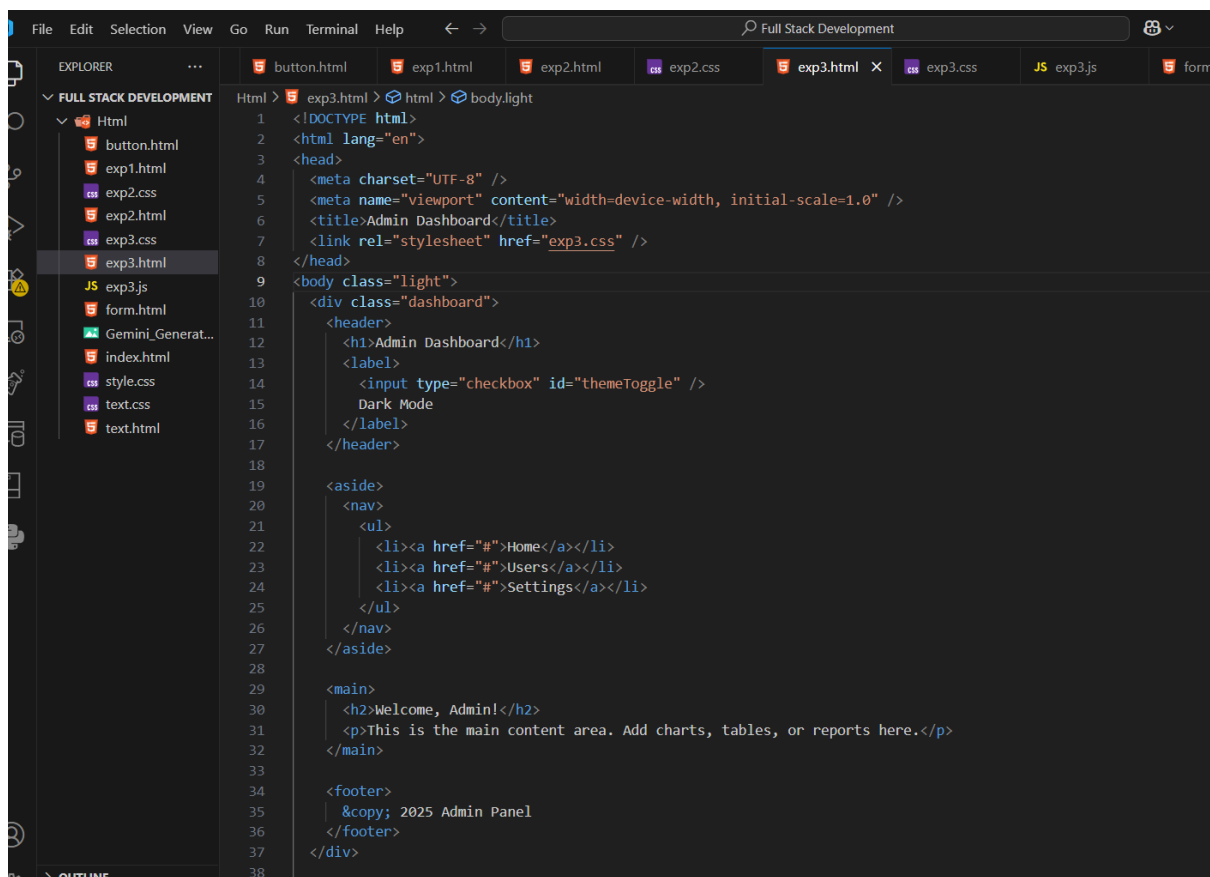
Java Script:

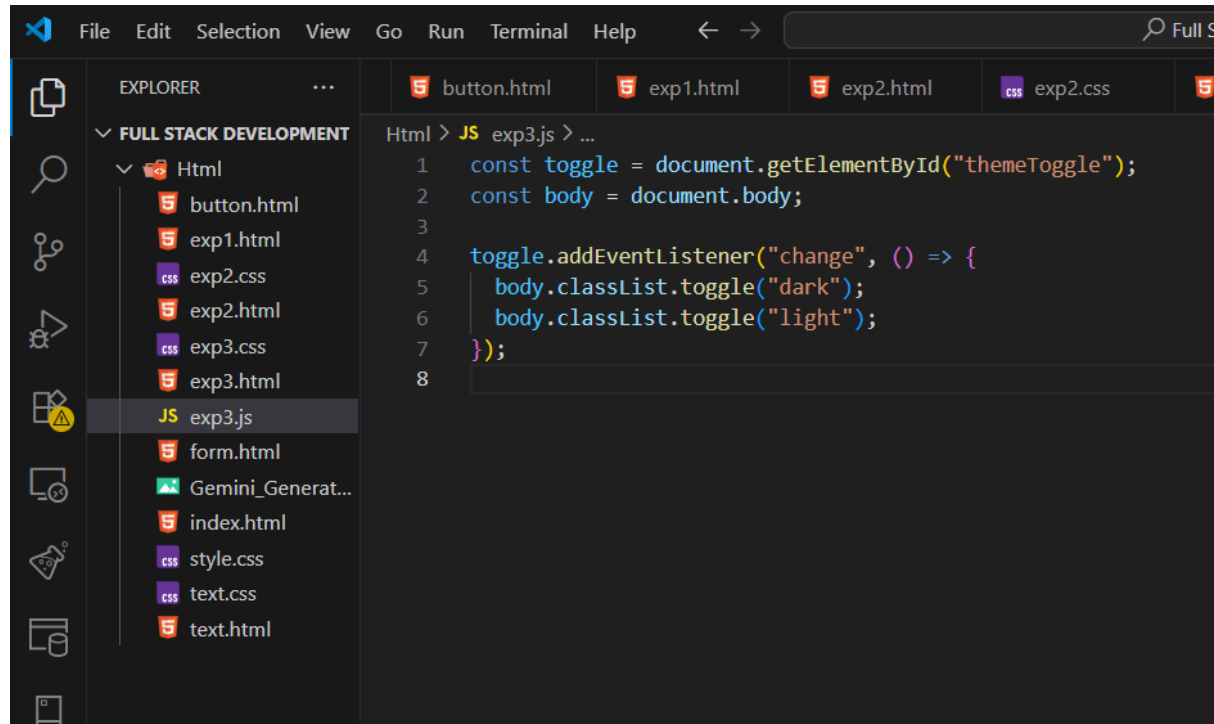
```
const toggle =  
document.getElementById("themeToggle");
```

```
const body = document.body;
```

```
toggle.addEventListener("change", () => {  
    body.classList.toggle("dark");  
    body.classList.toggle("light");  
});
```

Code Image:



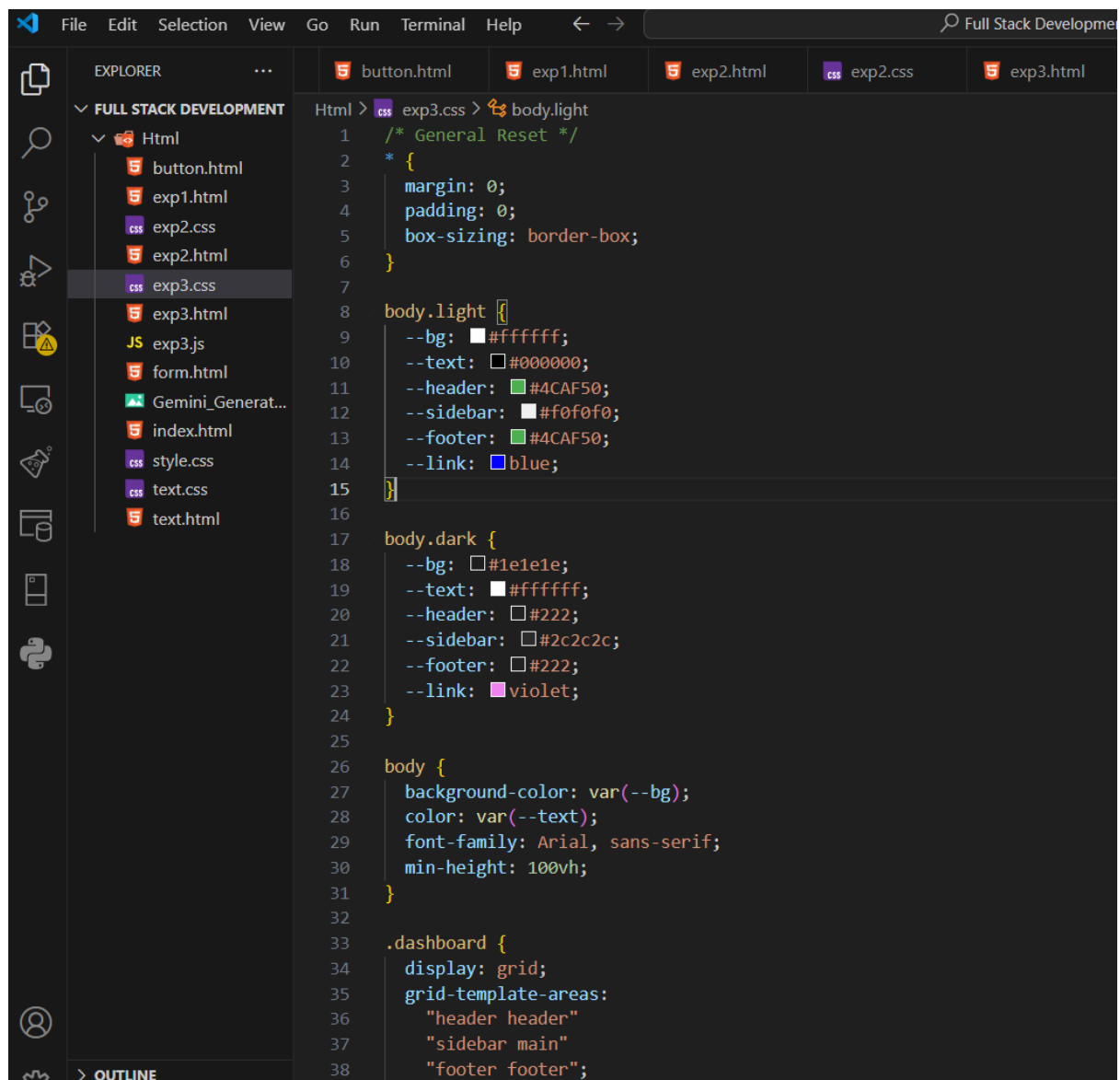


VS Code Editor Screenshot 1: The Explorer panel shows the project structure under 'FULL STACK DEVELOPMENT' > 'Html'. The file 'exp3.js' is selected. The editor shows the following JavaScript code:

```

1  const toggle = document.getElementById("themeToggle");
2  const body = document.body;
3
4  toggle.addEventListener("change", () => {
5    body.classList.toggle("dark");
6    body.classList.toggle("light");
7  });
8

```



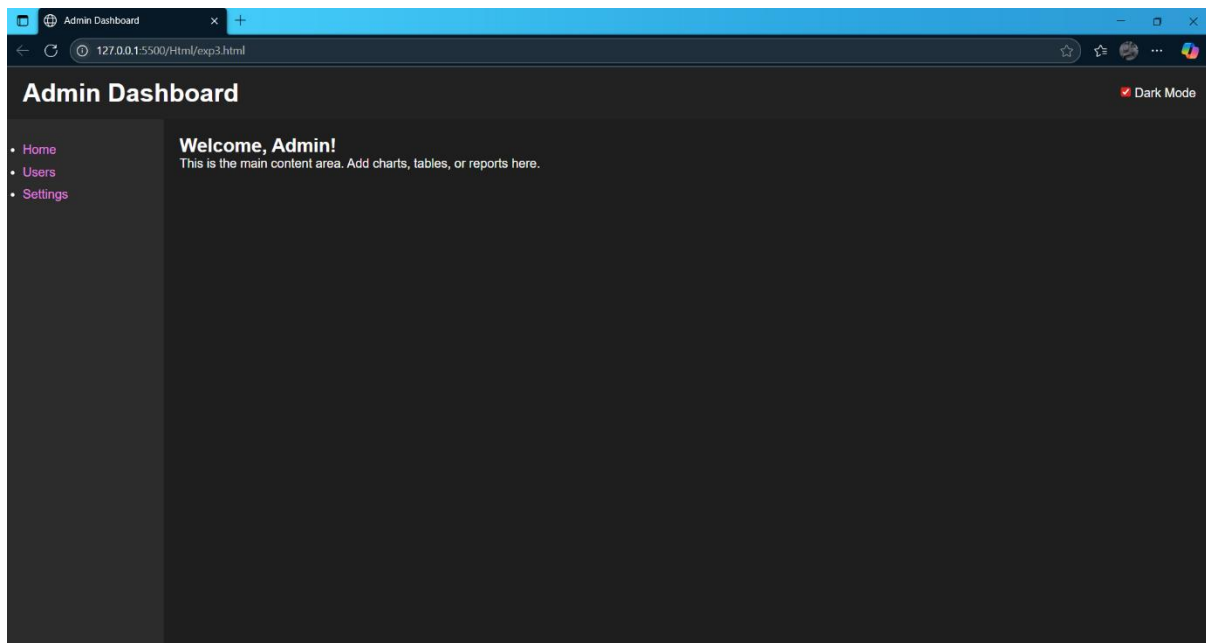
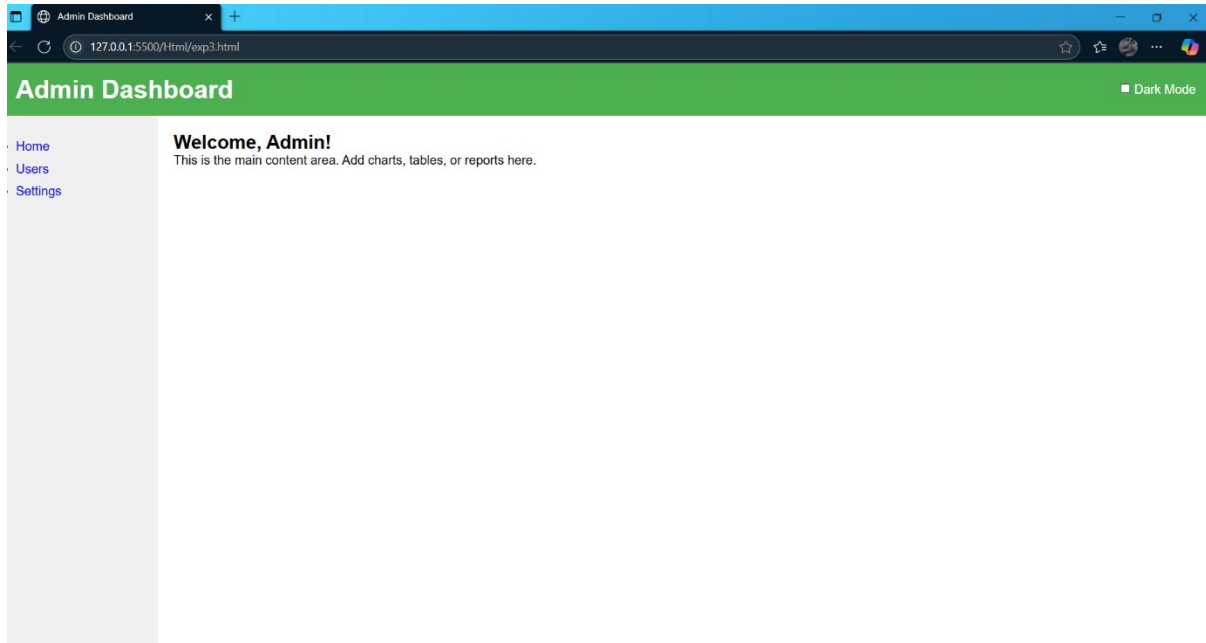
VS Code Editor Screenshot 2: The Explorer panel shows the project structure under 'FULL STACK DEVELOPMENT' > 'Html'. The file 'exp3.css' is selected. The editor shows the following CSS code:

```

1  /* General Reset */
2  * {
3    margin: 0;
4    padding: 0;
5    box-sizing: border-box;
6  }
7
8  body.light {
9    --bg: #ffffff;
10   --text: #000000;
11   --header: #4CAF50;
12   --sidebar: #f0f0f0;
13   --footer: #4CAF50;
14   --link: blue;
15 }
16
17 body.dark {
18   --bg: #1e1e1e;
19   --text: #ffffff;
20   --header: #222;
21   --sidebar: #2c2c2c;
22   --footer: #222;
23   --link: violet;
24 }
25
26 body {
27   background-color: var(--bg);
28   color: var(--text);
29   font-family: Arial, sans-serif;
30   min-height: 100vh;
31 }
32
33 .dashboard {
34   display: grid;
35   grid-template-areas:
36     "header header"
37     "sidebar main"
38     "footer footer";

```


Output -



Learning Outcomes -:

1. Learned how to make a simple admin dashboard layout using HTML and CSS Grid.

2. Understood how to divide a webpage into header, sidebar, content, and footer.
3. Learned how to use JavaScript to change between light and dark themes.