



Daffodil
International
University

Lab Report 2

Course Code: CSE416

Course Title: Web Engineering Lab

SUBMITTED TO:

Noshat Sadaf Lira

Department of Computer Science and Engineering

Daffodil International University

SUBMITTED BY:

Kanij Fatema

ID:221-15-4884

Section :61_J1

1.Experiment No:02

2.Experiment Name: Styling and Layout Techniques for Web Pages using CSS.

3.Objective:

- To understand how CSS is used to style HTML elements.
- To apply different CSS properties such as color, font, margin, padding, border, etc.
- To explore layout techniques using Flexbox, Grid, and positioning.
- To create a structured and visually attractive webpage.

4.Introduction: CSS is used to control the presentation of web pages.

It allows developers to:

- Add colors, fonts, and styles to HTML elements.
- Define page layouts using Grid and Flexbox.
- Control spacing with margin, padding, and alignment.
- Create responsive and user-friendly designs.

5.Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>CSS Styling and Layout Example</title>
  <style>

  body{
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
    background-color: #f4f6f9;
  }
```

```
header{
  background-color: #34495e;
  color: white;
  padding: 20px;
  text-align: center;
}
```

```
nav{
  display: flex;
  justify-content: center;
  background: #2c3e50;
}
nav a {
  color: white;
  padding: 14px 20px;
  text-decoration: none;
}
nav a:hover {
  background: #1abc9c;
}
```

```
.container {
  display: flex;
  margin: 20px;
  gap: 20px;
}
.sidebar {
  flex: 1;
  background: #ecf0f1;
  padding: 15px;
  border-radius: 8px;
}
.content {
  flex: 3;
  background: #ffffff;
  padding: 15px;
  border-radius: 8px;
```

```
    box-shadow: 0 2px 6px rgba(0,0,0,0.1);
}
```

```
.gallery{
    display: grid;
    grid-template-columns: repeat(3, 1fr);
    gap: 15px;
    margin-top: 20px;
}
```

```
.gallery div{
    background: #1abc9c;
    color: white;
    padding: 40px;
    text-align: center;
    border-radius: 8px;
}
```

```
footer{
    background: #34495e;
    color: white;
    text-align: center;
    padding: 15px;
    margin-top: 20px;
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
  <header>
```

```
    <h1>Subject</h1>
```

```
    <p>Styling and Layout with CSS</p>
```

```
  </header>
```

```
  <nav>
```

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

```
    <a href="#">Services</a>
```

```
    <a href="#">About</a>
```

```
    <a href="#">Contact</a>
```

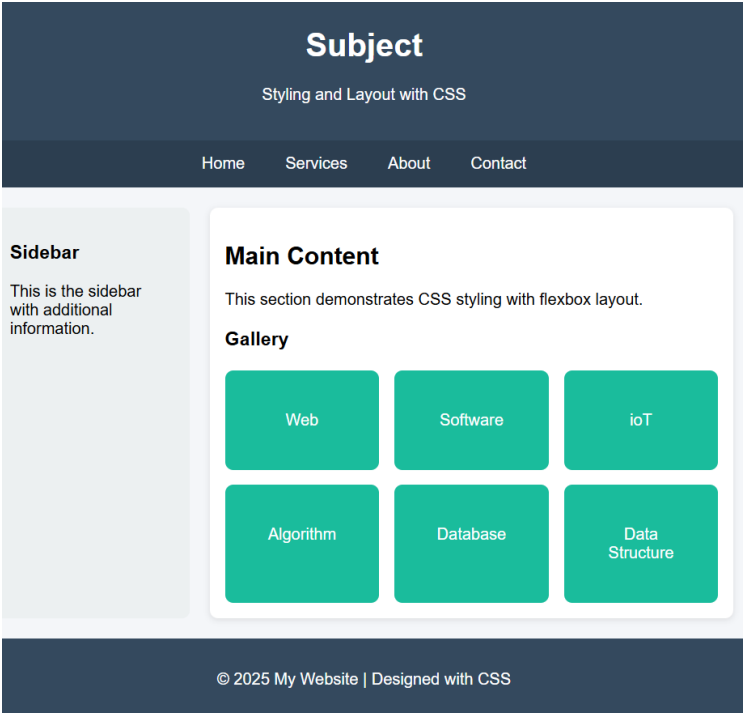
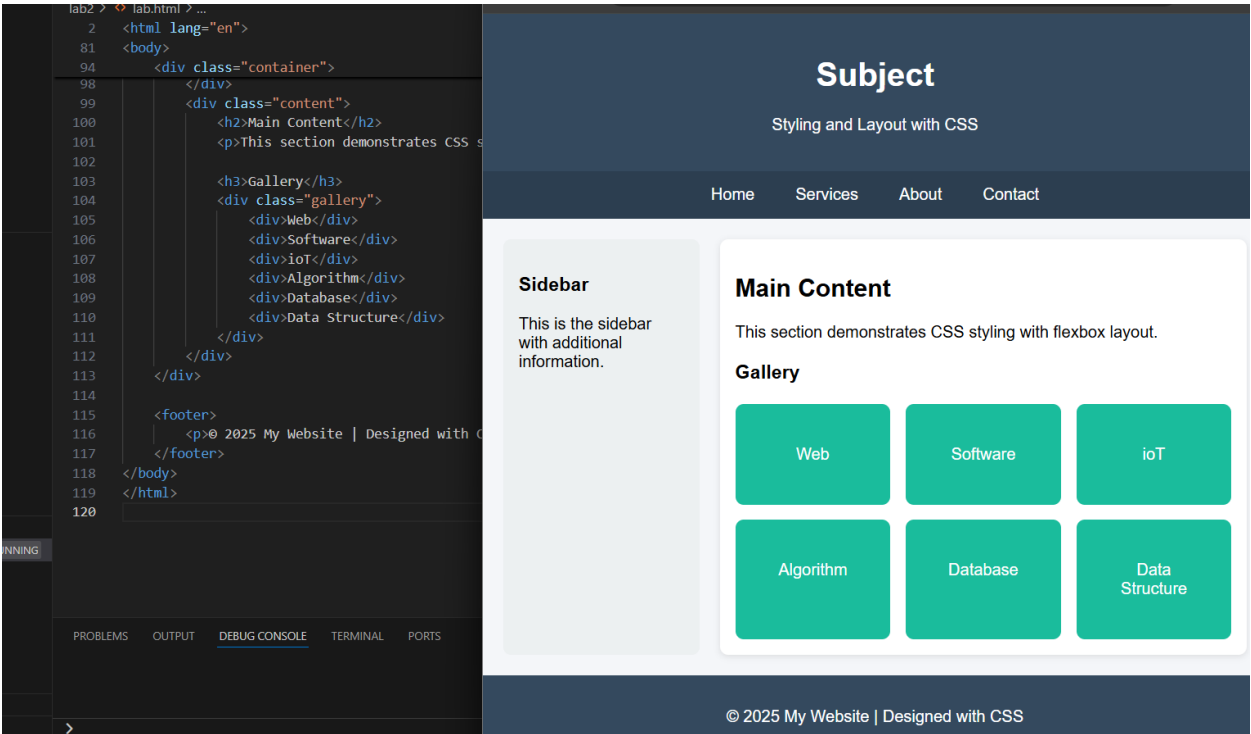
```
</nav>

<div class="container">
  <div class="sidebar">
    <h3>Sidebar</h3>
    <p>This is the sidebar with additional information.</p>
  </div>
  <div class="content">
    <h2>Main Content</h2>
    <p>This section demonstrates CSS styling with flexbox layout.</p>

    <h3>Gallery</h3>
    <div class="gallery">
      <div>Web</div>
      <div>Software</div>
      <div>IoT</div>
      <div>Algorithm</div>
      <div>Database</div>
      <div>Data Structure</div>
    </div>
  </div>
</div>

<footer>
  <p>© 2025 My Website | Designed with CSS</p>
</footer>
</body>
</html>
```

Output:



Output (Description):

- A styled header with title and subtitle appears at the top.
- A navigation bar with hover effects is displayed.
- The main page is divided into two sections using Flexbox:
 - Sidebar (1 part)
 - Main Content (3 parts)
- Inside the content, a gallery layout is created using CSS Grid.
- A styled footer appears at the bottom.

6.Conclusion: In this lab, we explored how CSS enhances the look and layout of web pages using styling properties, Flexbox, and Grid. It helped us understand how design and content can be separated to create attractive, structured, and easy-to-maintain webpages.