

# Full Stack Application Development with Cloud Computing

## Module 2 – Front-End Development Tools, Technologies and Frameworks

### Lab - 4

## Unit 2 - CSS3 Essentials & Layout Techniques

### Topic: CSS3 Layout Techniques

Ex.1 : An HTML page with CSS3 Essentials and whole Layout Technique

```
<!DOCTYPE html>
<html>
<head>
  <title>CSS3 Essentials & Layout Techniques</title>
  <style>
    /* Styling the body */
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 0;
      background-color: #f4f4f4;
      color: #333;
    }

    /* Styling the header */
    header {
      background-color: #333;
      color: #fff;
      text-align: center;
      padding: 1rem;
    }
```

```
/* Styling navigation links */
```

```
nav a {  
    color: #444;  
    text-decoration: none;  
    padding: 0.5rem;  
}
```

```
/* Styling the main content */
```

```
section {  
    padding: 1rem;  
}
```

```
/* Styling unordered list items */
```

```
ul li {  
    list-style-type: square;  
    margin-left: 1rem;  
}
```

```
/* Styling the footer */
```

```
footer {  
    background-color: #555;  
    color: #fff;  
    text-align: center;  
    padding: 1rem;  
}
```

```
/* Advanced CSS properties */
```

```
header h1 {  
    font-size: 2.5rem;  
    margin-bottom: 0.5rem;  
    letter-spacing: 1px;  
}
```

```
section p {  
    line-height: 1.6;  
}
```

```
ul {  
    border: 1px solid #ccc;  
    padding: 0.5rem;  
}
```

```
footer p {  
    font-size: 0.8rem;  
}
```

```
/* CSS3 and Layout Techniques Specific Styles */
```

```
.box {  
    width: 200px;  
    height: 150px;  
    background-color: #f9c74f;  
    border: 2px solid #f77f00;  
    margin: 20px;  
    padding: 10px;  
    text-align: center;  
    display: inline-block;  
    box-shadow: 3px 3px 5px #888888;  
}
```

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

```
.flex-container {
    display: flex;
    justify-content: space-between;
    align-items: center;
}
</style>
</head>
<body>
    <!-- Header section -->
    <header>
        <h1>CSS3 Essentials & Layout Techniques</h1>
        <p>Exploring CSS3 Features and Layout Strategies</p>
    </header>

    <!-- Navigation section -->
    <nav>
        <a href="#">Home</a> |
        <a href="#">CSS3 Features</a> |
        <a href="#">Layout Techniques</a> |
        <a href="#">Examples</a>
    </nav>

    <!-- Main content section -->
    <section>
        <h2>CSS3 Essentials</h2>
        <p>CSS3 brings powerful features like rounded corners, shadows,
gradients, and more to enhance the styling of web elements.</p>

        <h3>Rounded Corners</h3>
        <div class="box">Rounded Corners</div>

        <h3>Box Shadow</h3>
```

```
<div class="box" style="box-shadow: 5px 5px 10px
#888888;">Box Shadow</div>
```

```
<h3>Gradients</h3>
```

```
<div class="box" style="background: linear-gradient(to bottom,
#f9c74f, #f77f00);">Gradient Box</div>
```

```
</section>
```

```
<!-- Layout Techniques section -->
```

```
<section>
```

```
<h2>Layout Techniques</h2>
```

```
<p>Layout techniques like Grid and Flexbox offer powerful ways
to create responsive and flexible layouts.</p>
```

```
<h3>Grid Layout</h3>
```

```
<div class="grid-container">
```

```
<div class="box">Item 1</div>
```

```
<div class="box">Item 2</div>
```

```
<div class="box">Item 3</div>
```

```
</div>
```

```
<h3>Flexbox Layout</h3>
```

```
<div class="flex-container">
```

```
<div class="box">Item 1</div>
```

```
<div class="box">Item 2</div>
```

```
<div class="box">Item 3</div>
```

```
</div>
```

```
</section>
```

```
<!-- Footer section -->
```

```
<footer>
```

```
<p>&copy; 2023 CSS3 Essentials & Layout Techniques. All rights
reserved.</p>
```

```

</footer>
</body>
</html>

```

## Output:



## **Practice Question**

**Ex. 2: Imagine you are designing a website for a fashion brand. Describe how you would apply the following CSS3 properties and concepts to enhance the design and user experience of the website**

- **Border**
- **Backgrounds**
- **Transition**
- **Transforms**