

# 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;
}
```



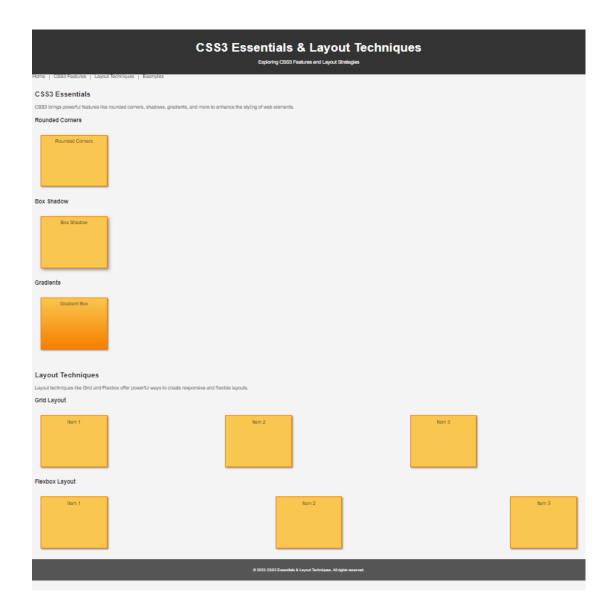
```
.flex-container {
       display: flex;
       justify-content: space-between;
       align-items: center;
    }
  </style>
</head>
<body>
  <!-- Header section -->
  <header>
    <h1>CSS3 Essentials & Layout Techniques</h1>
    Exploring CSS3 Features and Layout Strategies
  </header>
  <!-- Navigation 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>
    CSS3 brings powerful features like rounded corners, shadows,
gradients, and more to enhance the styling of web elements.
    <h3>Rounded Corners</h3>
    <div class="box">Rounded Corners</div>
    <h3>Box Shadow</h3>
```



```
<div class="box" style="box-shadow: 5px 5px 10px</pre>
#888888:">Box Shadow</div>
     <h3>Gradients</h3>
     <div class="box" style="background: linear-gradient(to bottom,</pre>
#f9c74f, #f77f00);">Gradient Box</div>
  </section>
  <!-- Layout Techniques section -->
  <section>
    <h2>Layout Techniques</h2>
     Layout techniques like Grid and Flexbox offer powerful ways
to create responsive and flexible layouts.
     <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>
     © 2023 CSS3 Essentials & Layout Techniques. All rights
reserved.
```



#### **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