Full Stack Application Development with Cloud Computing

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

Lab - 3

Unit 2 - CSS3 Essentials & Layout Techniques

Topic: Advanced CSS Properties

Ex. 1: An HTML page that includes advanced CSS properties applied to different elements

```
<!DOCTYPE html>
<html>
<head>
   <title>Advanced CSS Properties Example</title>
   <style>
      /* Styling the body */
      body {
         font-family: Arial, sans-serif;
         margin: 0;
         padding: 0;
         background-color: #ffffe0;
         color: #333;
      }

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

```css
}

/* 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: 2.6;
        }

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

        footer p {
            font-size: 0.8rem;
        }
    </style>
</head>
<body>
    <!-- Header section -->
    <header>
        <h1>CSS Properties Example</h1>
        <p>Exploring Different CSS Properties</p>
    </header>

    <!-- Navigation section -->
    <nav>
        <a href="#">Home</a> |
        <a href="#">About</a> |
        <a href="#">Services</a> |
        <a href="#">Contact</a>
    </nav>

    <!-- Main content section -->
    <section>
```

```
        <h2>About Advanced CSS Properties</h2>
        <p>Advanced CSS properties provide finer control over the
appearance and layout of HTML elements.</p>

        <h3>Property Examples</h3>
        <ul>
            <li>This is an example of the <code>font-size</code>
property.</li>
            <li>This is an example of the <code>margin-bottom</code>
property.</li>
            <li>This is an example of the <code>letter-spacing</code>
property.</li>
            <li>This is an example of the <code>line-height</code>
property.</li>
            <li>This is an example of the <code>border</code>
property.</li>
            <li>This is an example of the <code>font-size</code> property
(footer).</li>
        </ul>
    </section>

    <!-- Footer section -->
    <footer>
        <p>&copy; 2023 Advanced CSS Properties Example. All rights
reserved.</p>
    </footer>
</body>
</html>
```

Output:

CSS Properties Example

Exploring Different CSS Properties

Home | About | Services | Contact

About Advanced CSS Properties

Advanced CSS properties provide finer control over the appearance and layout of HTML elements.

Property Examples

- This is an example of the `font-size` property.
- This is an example of the `margin-bottom` property.
- This is an example of the `letter-spacing` property.
- This is an example of the `line-height` property.
- This is an example of the `border` property.
- This is an example of the `font-size` property (footer).

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Practice Question

Ex. 2: Creating a complex layout for a landing page. Implement the following advanced CSS properties to achieve the desired design:

- **CSS Grid to create a responsive three-column layout for the main content area.**

- **Apply a background image to the header section, covering the entire width and height of the viewport.**

- **Use CSS transitions to create a smooth hover effect on links.**

- **Implement a gradient background color for a section of your choice.**

- **Add a drop shadow to an image in the main content area.**