

Assignment 13:

Title: Designing a Website Using HTML, CSS, and Advanced JavaScript

Objective: To design an interactive and visually appealing website by combining HTML for structure, CSS for styling, and advanced JavaScript for dynamic functionality.

Tasks: Create a multi-section webpage using HTML with headings, paragraphs, images, and links. Apply CSS to style the webpage. Use advanced JavaScript to add interactivity.

Software Required:

5. Notepad (or any text editor)
6. Any web browser (Google Chrome / Edge / Firefox)

Procedure:

Step 1: Open Notepad (or any text editor).

Step 2: Create a new file.

Step 3: Save the file as

- File Name: assignment13.html
- Save as type: All Files
- Encoding: UTF-8
- Location: Desktop or your project folder

Step 4: Type the HTML program

Home Page

- Welcome message with headings and paragraphs
- Navigation menu linking to other pages
- Styled with CSS
- Optional JavaScript greeting alert on page load

About Me Page

- Personal information or biography
- Ordered/unordered lists to describe skills, hobbies, or achievements

- Image of yourself (or placeholder)

Gallery Page

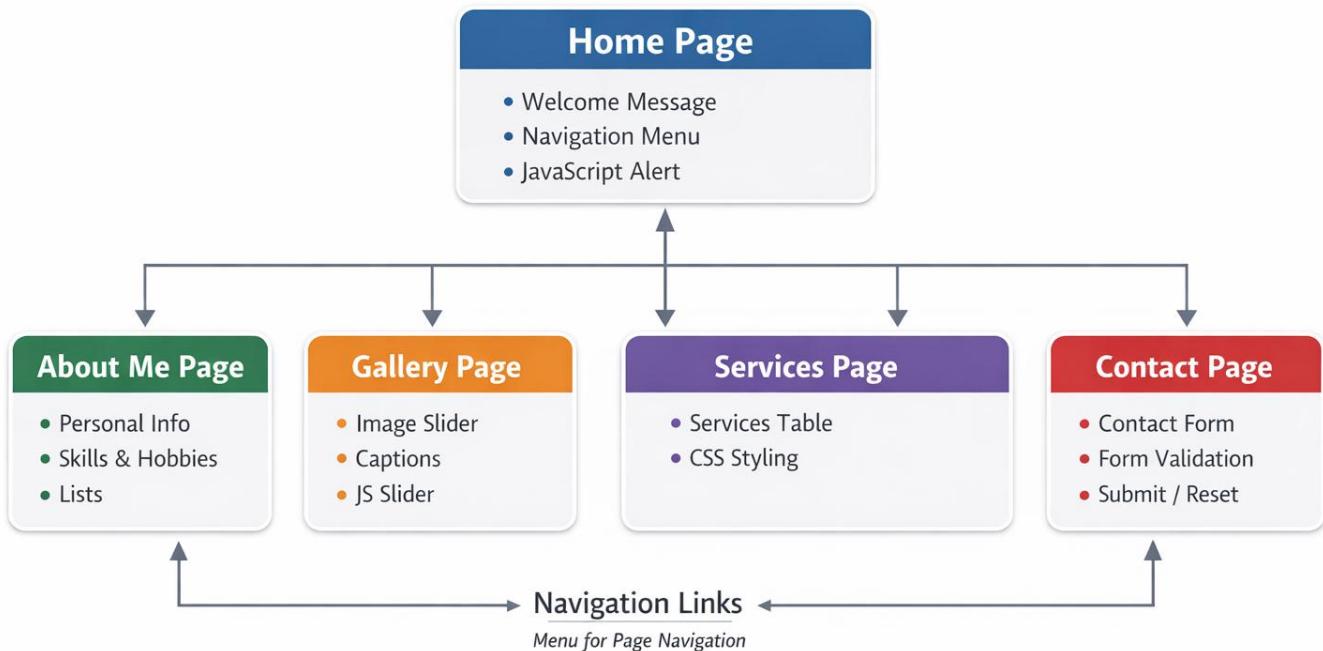
- Display multiple images
- Add an interactive JavaScript slider or hover effects
- Images with captions

Projects Page

- Tables showing list of assignment
- CSS styling for table borders and colors
- Optional JavaScript function for sorting or highlighting

Contact Me Page

- Form with fields: Name, Email, Phone, Message
- Form validation using JavaScript (check empty fields, valid email)
- Submit/Reset buttons



Step 5: Run assignment13.html in any web browser

Index.html (Home Page)

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Home - My Website</title>

    <style>

        body { font-family: Arial, sans-serif; margin: 0; padding: 0; text-align: center; background-color: #f0f8ff; }

        header { background-color: #333366; color: white; padding: 20px; }

        nav { background-color: #444488; overflow: hidden; }

        nav a { color: white; text-decoration: none; padding: 14px 20px; display: inline-block; }

        nav a:hover { background-color: #6666aa; }

        section { padding: 40px; }

        h1 { color: #333366; }

    </style>

    <script>

        function greetUser() {

            alert("Welcome to My Website!");

        }

    </script>

</head>

<body onload="greetUser()">

    <header>

        <h1>Welcome to My Website</h1>

    </header>
```

```
<nav>
    <a href="index.html">Home</a>
    <a href="about.html">About Me</a>
    <a href="gallery.html">Gallery</a>
    <a href="services.html">Services</a>
    <a href="contact.html">Contact Me</a>
</nav>
<section>
    <h2>Home Page</h2>
    <p>This is the home page of my interactive multi-page website built using HTML, CSS, and JavaScript.</p>
</section>
</body>
</html>
```

about.html (About Me Page)

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>About Me</title>

    <style>

        body { font-family: Arial, sans-serif; margin: 0; text-align: center;
background-color: #f9f9f9; }

        header { background-color: #333366; color: white; padding: 20px; }

        nav { background-color: #444488; overflow: hidden; }

        nav a { color: white; text-decoration: none; padding: 14px 20px; display:
inline-block; }

        nav a:hover { background-color: #6666aa; }

        section { padding: 40px; }

        img { width: 200px; border-radius: 50%; margin: 20px 0; }

    </style>

</head>

<body>

    <header>

        <h1>About Me</h1>

    </header>

    <nav>

        <a href="index.html">Home</a>

        <a href="about.html">About Me</a>

        <a href="gallery.html">Gallery</a>

        <a href="services.html">Services</a>

    
```

```
<a href="contact.html">Contact Me</a>
</nav>

<section>

    <h2>My Profile</h2>

    <p>Hello! I am a web development enthusiast learning HTML, CSS, and JavaScript.</p>

    <h3>My Skills:</h3>

    <ul>

        <li>HTML & CSS</li>

        <li>JavaScript</li>

        <li>Responsive Design</li>

        <li>Basic Front-End Development</li>

    </ul>

    <h3>Hobbies:</h3>

    <ol>

        <li>Coding</li>

        <li>Reading</li>

        <li>Photography</li>

    </ol>

</section>

</body>

</html>
```

gallery.html (Gallery Page with Slider)

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Gallery</title>

    <style>

        body { font-family: Arial, sans-serif; margin: 0; text-align: center;
background-color: #f0f8ff; }

        header { background-color: #333366; color: white; padding: 20px; }

        nav { background-color: #444488; overflow: hidden; }

        nav a { color: white; text-decoration: none; padding: 14px 20px; display:
inline-block; }

        nav a:hover { background-color: #6666aa; }

        section { padding: 40px; }

        #slider { width: 80%; margin: 0 auto; position: relative; }

        #slider img { width: 100%; display: none; border-radius: 10px; }

    </style>

    <script>

        var slideIndex = 0;

        function showSlides() {

            var slides = document.querySelectorAll('#slider img');

            for (var i = 0; i < slides.length; i++) slides[i].style.display =
"none";

            slideIndex++;

            if (slideIndex > slides.length) slideIndex = 1;

            slides[slideIndex-1].style.display = "block";

        }

    </script>


```

```
    setTimeout(showSlides, 3000);

}

window.onload = showSlides;

</script>

</head>

<body>

<header>

    <h1>Gallery</h1>

</header>

<nav>

    <a href="index.html">Home</a>

    <a href="about.html">About Me</a>

    <a href="gallery.html">Gallery</a>

    <a href="services.html">Services</a>

    <a href="contact.html">Contact Me</a>

</nav>

<section>

    <h2>Image Slider</h2>

    <div id="slider">

    </div>

</section>

</body>

</html>
```

services.html (Projects Page with Table)

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Services</title>

    <style>

        body { font-family: Arial, sans-serif; margin: 0; text-align: center; background-color: #f9f9f9; }

        header { background-color: #333366; color: white; padding: 20px; }

        nav { background-color: #444488; overflow: hidden; }

        nav a { color: white; text-decoration: none; padding: 14px 20px; display: inline-block; }

        nav a:hover { background-color: #6666aa; }

        section { padding: 40px; }

        table { width: 80%; margin: 0 auto; border-collapse: collapse; }

        th, td { border: 1px solid #333366; padding: 10px; }

        th { background-color: #333366; color: white; }

        tr:nth-child(even) { background-color: #e6e6ff; }

    </style>

</head>

<body>

    <header>

        <h1>Services / Projects</h1>

    </header>

    <nav>

        <a href="index.html">Home</a>
```

```
<a href="about.html">About Me</a>
<a href="gallery.html">Gallery</a>
<a href="services.html">Services</a>
<a href="contact.html">Contact Me</a>

</nav>
<section>

    <h2>Our Services</h2>

    <table>

        <tr>
            <th>Service Name</th>
            <th>Description</th>
            <th>Duration</th>
        </tr>

        <tr>
            <td>Web Design</td>
            <td>Designing responsive websites</td>
            <td>1 Month</td>
        </tr>

        <tr>
            <td>JavaScript Training</td>
            <td>Interactive web application training</td>
            <td>2 Weeks</td>
        </tr>

        <tr>
            <td>UI/UX Design</td>
            <td>Creating user-friendly interfaces</td>
            <td>3 Weeks</td>
        </tr>
    </table>
</section>
```

</tr>

</table>

</section>

</body>

</html>

contact.html (Contact Me Page)

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Contact Me</title>

    <style>

        body { font-family: Arial, sans-serif; margin: 0; text-align: center;
background-color: #f0f8ff; }

        header { background-color: #333366; color: white; padding: 20px; }

        nav { background-color: #444488; overflow: hidden; }

        nav a { color: white; text-decoration: none; padding: 14px 20px; display:
inline-block; }

        nav a:hover { background-color: #6666aa; }

        section { padding: 40px; }

        input, textarea { width: 300px; padding: 10px; margin: 10px 0; }

        button { padding: 10px 20px; cursor: pointer; }

        p { color: green; font-weight: bold; }

    </style>

    <script>

        function validateForm() {

            var name = document.forms["contactForm"]["name"].value;

            var email = document.forms["contactForm"]["email"].value;

            var message = document.forms["contactForm"]["message"].value;

            if(name == "" || email == "" || message == "") {

                alert("Please fill all fields.");

                return false;

            }

        }

    </script>


```

```
}

var atpos = email.indexOf("@");

var dotpos = email.lastIndexOf(".");

if(atpos < 1 || dotpos < atpos+2 || dotpos+2 >= email.length) {

    alert("Please enter a valid email address.");

    return false;

}

document.getElementById("success").innerHTML = "Form submitted successfully!";

return false; // prevent actual form submission for demo

}

</script>

</head>

<body>

<header>

    <h1>Contact Me</h1>

</header>

<nav>

    <a href="index.html">Home</a>

    <a href="about.html">About Me</a>

    <a href="gallery.html">Gallery</a>

    <a href="services.html">Services</a>

    <a href="contact.html">Contact Me</a>

</nav>

<section>

    <h2>Get in Touch</h2>

    <form name="contactForm" onsubmit="return validateForm()">

        <input type="text" name="name" placeholder="Your Name"><br>
```

```
<input type="email" name="email" placeholder="Your Email"><br>

<textarea name="message" placeholder="Your Message"
rows="5"></textarea><br>

<button type="submit">Submit</button>

<button type="reset">Reset</button>

</form>

<p id="success"></p>

</section>

</body>

</html>
```

Conclusion:

This assignment helped in understanding how HTML, CSS, and advanced JavaScript work together to design an interactive and attractive website. HTML was used to create the structure, CSS improved the visual appearance, and JavaScript added dynamic and interactive features.