

Established – 1961

Subject: WEB PROGRAM

SEVA SADAN'S
R. K. TALREJA COLLEGE
OF
ARTS, SCIENCE & COMMERCE
ULHASNAGAR – 421 003



CERTIFICATE

This is to certify that Mr./Ms. AKANKSHA SINGH of F.Y. Information Technology (FYIT) Roll No. 2541050 has satisfactorily completed the Web Designing Mini Project entitled Portfolio with interactive form validation UX during the academic year 2025 – 2026, as a part of the practical requirement. The project work is found to be satisfactory and is approved for submission.

PROF. INCHARGE
SAHIL SHUKLA

HEAD OF DEPT
LAXMI JESWANI

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INTRODUCTION:

This project is a modern and responsive **Personal Portfolio Website** developed using HTML, CSS, and JavaScript. The main purpose of this website is to create a professional digital identity and showcase technical skills, projects, and contact details in an interactive and user-friendly manner.

The portfolio follows a clean dark-themed design with a modern UI layout. It is structured into five main sections: **Home, About, Skills, Projects, and Contact**. Each section is designed to provide clear information while maintaining visual consistency and smooth navigation.

The major highlight of this project is the **Interactive Contact Form with Real-Time Validation**. Using JavaScript, the system checks user input fields such as name, email, and message before submission. If the input is incorrect, error messages and red borders are displayed. If the input is valid, green success indicators appear. This improves user experience and ensures proper data input.

The website also includes:

- Fixed navigation bar for smooth scrolling
- Responsive grid layout using CSS
- Skill cards with hover effects
- Project showcase cards
- Social media integration (Instagram, GitHub)

REQUIREMENT SPECIFICATION :

The requirement of this project is to develop a responsive and interactive personal portfolio website that effectively represents the developer's digital identity. The system is required to be designed as a single-page application containing five main sections: Home, About, Skills, Projects, and Contact. The website must provide smooth navigation using a fixed navigation bar and anchor-based scrolling. The layout should be fully responsive so that it works properly on desktop, tablet, and mobile devices using CSS Grid and Flexbox techniques.

A key functional requirement of this project is the implementation of an interactive contact form with real-time validation using JavaScript. The system must validate user inputs such as full name, email address, and message before allowing submission. If incorrect data is entered, the system should display error messages and highlight the fields with red borders. If the input is valid, the fields should show green success indicators. This ensures proper user input and improves overall user experience.

The design requirement includes the use of a modern dark theme interface with consistent color combinations defined using CSS variables. The website must include hover effects, smooth transitions, and interactive project cards to enhance visual appeal. The integration of external libraries such as FontAwesome is required for displaying icons.

The non-functional requirements include fast loading performance, clean and structured code, cross-browser compatibility, and user-friendly interface design. The system does not require a database or backend integration, as it functions as a static front-end portfolio website.

Overall, the project must demonstrate knowledge of HTML structure, CSS styling, responsive design principles, and JavaScript-based form validation logic while maintaining a professional and modern user interface.

SYSTEM DESIGN:

1. Architectural Overview

The system is designed as a Single Page Responsive Portfolio Website developed using HTML5, CSS3, and JavaScript. It follows a front-end modular architecture and does not require any backend server or database. The website is structured to provide smooth navigation and interactive user experience while maintaining performance and responsiveness.

The architecture is divided into three main layers:

- Content Layer (HTML)
 - Presentation Layer (CSS)
 - Behavioral Layer (JavaScript)
-

2. Content Layer (HTML Structure)

The Content Layer acts as the structural backbone of the system. It organizes the website into semantic sections for better readability and maintainability.

The major sections included are:

- Navigation Bar

- Home Section
- About Section
- Skills Section
- Projects Section
- Contact Section

Each section is assigned a unique ID to enable anchor-based navigation. The contact form includes structured input fields for name, email, and message along with placeholders for validation feedback.

3. Presentation Layer (CSS Design)

The Presentation Layer handles the visual appearance of the website. It uses a modern dark theme with consistent color combinations defined using CSS variables.

Key design elements include:

- Fixed navigation bar
- Responsive grid layout for skills and projects
- Hover effects on skill and project cards
- Smooth transitions and animations

- Success and error color indicators in contact form
- Fully responsive layout using Flexbox and CSS Grid

The design follows Responsive Web Design (RWD) principles to ensure proper display on desktop, tablet, and mobile devices.

4. Behavioral Layer (JavaScript Logic)

The Behavioral Layer adds interactivity to the system. It mainly handles the form validation process in the Contact section.

The validation process includes:

1. Checking if input fields are empty.
2. Validating correct email format.
3. Displaying error messages for invalid inputs.
4. Adding success indicators for valid inputs.
5. Preventing form submission if validation fails.
6. Showing success alert when all inputs are valid.

JavaScript dynamically modifies CSS classes to display visual feedback such as red borders (error) and green borders (success).

5. Design Principles Used

- Responsive Web Design (RWD)
 - Single Page Layout Structure
 - Clean UI/UX Design
 - DOM Manipulation
 - Client-Side Validation
-

6. Data Flow Process

1. User opens the website.
2. Browser loads HTML structure.
3. CSS styles are applied.
4. JavaScript initializes form validation.
5. User fills the contact form.
6. System validates input before submission.
7. Success or error message is displayed.

SYSTEM IMPLEMENTATION:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>Modern Portfolio | Interactive UX</title>
  <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.0.0/css/all.min.css">

<style>
/* --- CSS STYLING --- */
:root {
  --bg-color: #0f172a;
  --card-bg: #1e293b;
  --accent-color: #2dd4bf;
  --text-white: #f8fafc;
  --error-color: #ef4444;
  --success-color: #22c55e;
}
```

```
* { margin: 0; padding: 0; box-index: border-box;  
font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif; }
```

```
body {  
    background-color: var(--bg-color);  
    color: var(--text-white);  
    line-height: 1.6;  
    scroll-behavior: smooth;  
}
```

```
/* Navigation */  
nav {  
    display: flex;  
    justify-content: space-between;  
    align-items: center;  
    padding: 20px 8%;  
    background: rgba(15, 23, 42, 0.95);  
    position: fixed;  
    width: 84%;  
    top: 0;  
    z-index: 1000;  
    border-bottom: 1px solid rgba(45, 212, 191, 0.1);
```

```
}
```

```
.logo { font-size: 24px; font-weight: 800; letter-spacing: 1px; }
```

```
.logo span { color: var(--accent-color); }
```

```
nav ul { display: flex; list-style: none; }
```

```
nav ul li { margin-left: 30px; }
```

```
nav ul li a {
```

```
    text-decoration: none;
```

```
    color: var(--text-white);
```

```
    font-weight: 500;
```

```
    transition: 0.3s;
```

```
}
```

```
nav ul li a:hover { color: var(--accent-color); }
```

```
/* Sections */
```

```
section { padding: 100px 10%; min-height: 90vh; display: flex; flex-direction: column; justify-content: center; }
```

```
.section-title { text-align: center; font-size: 2.5rem; margin-bottom: 50px; }
```

```
.section-title span { color: var(--accent-color); }
```

```
/* 1. Home Section */

.hero { text-align: center; }

.hero h1 { font-size: 4rem; margin-bottom: 10px; }

.hero h1 span { color: var(--accent-color); }

.hero p { font-size: 1.2rem; color: #94a3b8; margin-bottom: 30px; }

.hero-image img {

    width: 200px;

    height: 200px;

    border-radius: 60%;

    object-fit: cover;

    border: 4px solid #2dd4bf;

    box-shadow: 0 0 30px rgba(45, 212, 191, 0.6);

}

.btn {

    padding: 12px 35px;

    background: var(--accent-color);
```

```
color: var(--bg-color);  
text-decoration: none;  
border-radius: 8px;  
font-weight: bold;  
transition: 0.3s;  
border: none;  
cursor: pointer;  
display: inline-block;  
}  
.btn:hover { transform: scale(1.05); box-shadow: 0 0  
20px rgba(45, 212, 191, 0.4); }
```

```
/* 2. About Section */  
.about-content { max-width: 800px; margin: 0 auto;  
text-align: center; font-size: 1.1rem; color: #cbd5e1; }
```

```
/* 3. Skills Grid */  
.skills-grid {  
display: grid;  
grid-template-columns: repeat(auto-fit,  
minmax(150px, 1fr));  
gap: 25px;  
}
```

```
.skill-card {  
    background: var(--card-bg);  
    padding: 30px;  
    border-radius: 15px;  
    text-align: center;  
    transition: 0.3s;  
    border: 1px solid rgba(255, 255, 255, 0.05);  
}  
.skill-card:hover { border-color: var(--accent-color);  
transform: translateY(-5px); }  
.skill-card i { font-size: 3rem; color: var(--accent-color); margin-bottom: 15px; }  
  
/* 4. Projects */  
.projects-grid {  
    display: grid;  
    grid-template-columns: repeat(auto-fit,  
minmax(300px, 1fr));  
    gap: 30px;  
}  
.project-card {  
    background: var(--card-bg);  
    border-radius: 15px;
```

```
        overflow: hidden;  
        transition: 0.3s;  
    }  
  
.project-card:hover { transform: scale(1.02); }  
  
.project-img { height: 200px; background: #334155;  
display: flex; align-items: center; justify-content: center; }  
  
.project-info { padding: 20px; }
```

```
/* 5. Contact & Validation */  
  
.contact-container { max-width: 600px; margin: 0  
auto; width: 100%; }  
  
.input-group { margin-bottom: 25px; position:  
relative; }  
  
.input-group label { display: block; margin-bottom:  
8px; color: #94a3b8; }  
  
.input-group input, .input-group textarea {  
width: 100%;  
padding: 15px;  
background: var(--card-bg);  
border: 2px solid transparent;  
color: white;  
border-radius: 8px;
```

```
outline: none;  
transition: 0.3s;  
box-sizing: border-box;  
}
```

```
/* Success & Error Colors */  
.input-group.success input, .input-group.success  
textarea { border-color: var(--success-color); }  
.input-group.error input, .input-group.error textarea {  
border-color: var(--error-color); }  
  
.input-group i { position: absolute; right: 15px; top:  
45px; visibility: hidden; }  
.input-group.success .fa-check-circle { color: var(--  
success-color); visibility: visible; }  
.input-group.error .fa-exclamation-circle { color: var(--  
error-color); visibility: visible; }  
  
.input-group small { color: var(--error-color);  
visibility: hidden; font-size: 0.85rem; margin-top: 5px;  
display: block; }  
.input-group.error small { visibility: visible; }
```

```
        footer { text-align: center; padding: 40px; color:  
#64748b; font-size: 0.9rem; }
```

```
    </style>
```

```
</head>
```

```
<body>
```

```
    <nav>
```

```
        <div  
class="logo">PORTFOLIO<span>.</span></div>
```

```
        <ul>
```

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

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

```
            <li><a href="#skills">Skills</a></li>
```

```
            <li><a href="#projects">Projects</a></li>
```

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

```
        </ul>
```

```
    </nav>
```

```
<section id="home" class="hero">
```

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

```
        <!-- Profile Photo -->
```

```
        <div class="hero-image">
```

```
  
</div>
```

```
<!-- Content Below Photo -->  
<div class="hero-text">  
    <h1>Hi, I'm <span>Akanksha Singh</span></h1>  
    <p>B.Sc IT Student | Web Developer | UI  
Enthusiast</p>  
    <a href="#projects" class="btn">View My  
Work</a>  
</div>  
</div>  
</section>
```

```
<section id="about">  
    <h2 class="section-title">About  
<span>Me</span></h2>  
    <div class="about-content">  
        <div class="about-content">
```

<p>

Hello! I'm **Akansha singh**, a First Year B.Sc IT student with a strong interest in Web Development and UI Design.

I enjoy creating responsive and user-friendly websites using HTML, CSS and JavaScript.

</p>

<p style="margin-top:15px;">

I am currently learning Full-Stack Development and continuously improving my technical skills.

I believe in writing clean code and building projects that solve real-world problems.

</p>

<p style="margin-top:15px;">

My goal is to become a skilled software developer and contribute to innovative and impactful digital solutions.

</p>

</div>

</section>

<section id="skills">

```
<h2 class="section-title">My  
<span>Skills</span></h2>  
  
<div class="skills-grid">  
    <div class="skill-card"><i class="fab fa-html5"></i><p>HTML5</p></div>  
    <div class="skill-card"><i class="fab fa-css3-alt"></i><p>CSS3</p></div>  
    <div class="skill-card"><i class="fab fa-js"></i><p>JavaScript</p></div>  
    <div class="skill-card"><i class="fab fa-react"></i><p>React</p></div>  
    <div class="skill-card"><i class="fab fa-node-js"></i><p>Node.js</p></div>  
    <div class="skill-card"><i class="fas fa-code-branch"></i><p>Git</p></div>  
</div>  
</section>
```

```
<section id="projects">  
    <h2 class="section-title">Latest  
<span>Projects</span></h2>  
    <div class="projects-grid">  
        <!-- Project 1 -->
```

```
<div class="project-card">
  <div class="project-img">
    <i class="fas fa-shopping-cart fa-3x"></i>
  </div>
  <div class="project-info">
    <h3>E-Commerce UI</h3>
    <p>A modern shopping experience with clean interactions.</p>
    <ul style="margin-top:10px; padding-left:18px; color:#cbd5e1;">
      <li>Responsive design for mobile & desktop</li>
      <li>Interactive product cards with hover effects</li>
      <li>Modern UI with smooth animations</li>
    </ul>
  </div>
</div>

<!-- Project 2 -->
<div class="project-card">
  <div class="project-img">
    <i class="fas fa-tasks fa-3x"></i>
```

```
</div>

<div class="project-info">
    <h3>Task Manager</h3>
    <p>Helping users stay productive with real-time
    updates.</p>
    <ul style="margin-top:10px; padding-left:18px;
    color:#cbd5e1;">
        <li>Add, edit and delete tasks</li>
        <li>Real-time status updates</li>
        <li>User-friendly clean interface</li>
    </ul>
</div>
</div>
```

```
<!-- Project 3 -->
<div class="project-card">
    <div class="project-img">
        <i class="fas fa-user-circle fa-3x"></i>
    </div>
    <div class="project-info">
        <h3>Portfolio with Modal Popup</h3>
```

```
<p>Personal portfolio website with interactive UI  
features.</p>  
<ul style="margin-top:10px; padding-left:18px;  
color:#cbd5e1;">  
    <li>Modal popup contact form</li>  
    <li>Smooth scrolling navigation</li>  
    <li>Fully responsive modern layout</li>  
</ul>  
</div>  
</div>
```

```
<!-- Project 4 -->  
<div class="project-card">  
    <div class="project-img">  
        <i class="fas fa-graduation-cap fa-3x"></i>  
    </div>  
    <div class="project-info">  
        <h3>Student Management System</h3>  
        <p>A web-based system to manage student records  
efficiently.</p>  
        <ul style="margin-top:10px; padding-left:18px;  
color:#cbd5e1;">
```

```
<li>Add, update and delete student details</li>
<li>Search and filter functionality</li>
<li>Clean dashboard interface</li>
</ul>
</div>
</div>
```

```
<!-- Project 5 -->
<div class="project-card">
  <div class="project-img">
    <i class="fas fa-cloud-sun fa-3x"></i>
  </div>
  <div class="project-info">
    <h3>Weather App</h3>
    <p>Real-time weather information with clean UI design.</p>
    <ul style="margin-top:10px; padding-left:18px; color:#cbd5e1;">
      <li>Search weather by city name</li>
      <li>Displays temperature, humidity & condition</li>
      <li>Responsive and user-friendly interface</li>
    </ul>
  </div>
</div>
```

```
</div>  
</div>
```

```
<!-- Project 6 -->  
<div class="project-card">  
  <div class="project-img">  
    <i class="fas fa-question-circle fa-3x"></i>  
  </div>  
  <div class="project-info">  
    <h3>Online Quiz System</h3>  
    <p>Interactive quiz platform with instant score  
      calculation.</p>  
    <ul style="margin-top:10px; padding-left:18px;  
      color:#cbd5e1;">  
      <li>Multiple choice questions</li>  
      <li>Automatic score calculation</li>  
      <li>Clean and responsive layout</li>  
    </ul>  
  </div>  
</div>
```

```
</section>
```

```
<section id="contact">  
  <h2 class="section-title">Contact  
  <span>Me</span></h2>  
  <div class="contact-container">  
    <form id="contactForm">  
      <div class="input-group">  
        <label>Full Name</label>  
        <input type="text" id="username"  
        placeholder="Enter your name">  
        <i class="fas fa-check-circle"></i>  
        <i class="fas fa-exclamation-circle"></i>  
        <small>Error message</small>  
      </div>  
      <div class="input-group">  
        <label>Email Address</label>  
        <input type="email" id="email"  
        placeholder="Enter your email">  
        <i class="fas fa-check-circle"></i>  
        <i class="fas fa-exclamation-circle"></i>  
        <small>Error message</small>  
      </div>
```

```
<div class="input-group">
    <label>Message</label>
    <textarea id="message" rows="4"
placeholder="Your message here..."></textarea>
    <small>Error message</small>
</div>
<button type="submit" class="btn" style="width:
100%;">Send Message</button>
</form>
```

```
<div style="text-align:center; margin-top:25px; line-
height:2;">
```

```
<!-- Phone -->
<p>
    <i class="fas fa-phone"></i>
    <a href="tel:+91 8828665520" style="color:#2dd4bf;
text-decoration:none;">
        +91 8828665520      </a>
</p>
```

```
<!-- Email -->
```

```
<p>
    <i class="fas fa-envelope"></i>
    <a href="mailto:akshu5112007@gmail.com"
style="color:#2dd4bf; text-decoration:none;">
        akshu5112007@gmail.com
    </a>
</p>
```

```
</div>
```

```
<div style="text-align:center; margin-top:25px;">
    <p style="color:#94a3b8; margin-
bottom:10px;">Connect with me</p>

    <a href="https://instagram.com/itz.akku._____"
target="_blank"
        style="color:#2dd4bf; font-size:20px; text-
decoration:none;">
        <i class="fab fa-instagram"></i> @itz.akku._____
    </a>
```

```
</div>
</div>

<div style="text-align:center; margin-top:15px;">
  <a href="https://github.com/Akku200730"
target="_blank"
  style="color:#2dd4bf; font-size:20px; text-decoration:none;">
    <i class="fab fa-github"></i>
github.com/Akku200730
  </a>
</div>

</section>

<footer>
  © 2024 YourName Portfolio. Built with ❤️ and
Code.
</footer>

<script>
```

```
const form =
document.getElementById('contactForm');

const username =
document.getElementById('username');

const email = document.getElementById('email');

const message =
document.getElementById('message');

form.addEventListener('submit', (e) => {

    e.preventDefault();

    if(checkInputs()) {

        alert('Success! Your message has been sent.');

        form.reset();

        // Clear success classes

        document.querySelectorAll('.input-group').forEach(div => div.classList.remove('success'));

    }

});

function checkInputs() {

    const usernameValue = username.value.trim();

    const emailValue = email.value.trim();
```

SYSTEM TESTING AND RESULT:

1. System Testing Phase

The system testing of the Portfolio Website was conducted to ensure that all sections and interactive features work correctly. The testing process was performed using Black Box Testing methodology, where the focus was on checking system functionality without modifying internal code structure. The website was tested for navigation, responsiveness, form validation, and overall user experience.

2. Test Environment

The project was tested under the following environment:

- **Operating System:** Windows 10 / Windows 11
- **Browsers Tested:** Google Chrome, Microsoft Edge
- **Screen Resolutions Tested:**
 - Desktop: 1920 × 1080
 - Tablet: 768 × 1024
 - Mobile: 390 × 844

The website was also tested by resizing the browser window to check responsive behavior.

3. Functional Testing

The following modules were tested:

◊ Navigation Testing

- All navigation links correctly scroll to their respective sections.
- Fixed navigation bar remains visible while scrolling.

◊ Responsive Design Testing

- Layout adjusts properly on mobile, tablet, and desktop.

- Skills and project grids rearrange automatically on smaller screens.
- No content overflow issues were found.

◊ **Contact Form Validation Testing**

- Empty fields show error message and red border.
- Invalid email format shows validation error.
- Valid inputs show green success indicator.
- Form submission is prevented when validation fails.
- Success alert appears when all fields are correctly filled.

◊ **UI/UX Testing**

- Hover effects on skill and project cards work properly.
- Icons load correctly using FontAwesome.
- Color theme remains consistent across all sections.

4. Performance Testing

- Website loads quickly as it is a static front-end project.
- No major performance issues observed.
- No console errors found during testing.

5. Result

The final output of the system is a fully functional, responsive, and interactive portfolio website. All features such as navigation, skill display, project showcase, and contact form validation work correctly. The website performs smoothly across different devices and browsers.

The system successfully meets all functional and non-functional requirements. Therefore, the project is considered successfully implemented and tested.

CONCLUSION:

While the current version of the portfolio is a functional and aesthetic success, there are several technical enhancements planned for future iterations:

- **Backend Integration:** Implementing a **Node.js or PHP backend** to handle a "Contact Me" form, allowing messages to be saved to a database (MySQL/MongoDB) rather than just using a `mailto:` link.
- **Project Gallery with Filtering:** Adding a dynamic "Projects" section using **JavaScript arrays** or a JSON API to allow users to filter work by category (e.g., Web Dev, Editing, Gaming).
- **Dark/Light Mode Toggle:** Adding a theme switcher that allows users to toggle between the current dark aesthetic and a professional light mode.
- **Progressive Web App (PWA) Capabilities:** Converting the site into a PWA so it can be

installed on mobile devices and accessed offline.

- **Performance Optimization:** Hosting images on a Cloudinary or AWS S3 bucket instead of local storage to improve global load times and reliability.
-

Conclusion

The development of this Modern Portfolio Website has been an effective implementation of front-end web development concepts using HTML, CSS, and JavaScript. The project successfully demonstrates the creation of a responsive and interactive single-page application that represents a professional digital identity. Through structured layout design, modern dark-themed UI, and smooth navigation, the website provides a clean and user-friendly experience across different devices.

The integration of an interactive contact form with real-time validation highlights the practical use of JavaScript for DOM manipulation and client-side input validation. The use of CSS Grid, Flexbox, hover effects, and transitions enhances the visual appeal while maintaining responsiveness. The project also reflects understanding of UI/UX principles, structured coding practices, and responsive web design techniques.

Overall, this portfolio website fulfills academic requirements and serves as a professional platform to showcase technical skills and projects. It provides a strong foundation for future enhancements such as backend integration, database connectivity, and advanced features, contributing to continuous learning and growth in web development.

REFERENCE:

1. **Visual Studio Code** – Used as the source code editor for writing and managing HTML, CSS, and JavaScript files.
2. **Google Chrome** – Used for running, testing, and debugging the website during development.
3. **FontAwesome CDN** – Used for integrating icons in the Skills, Projects, and Contact sections.
4. **MDN Web Docs (Mozilla Developer Network)** – Used for understanding HTML structure, CSS properties, and JavaScript validation concepts.
5. **W3Schools** – Used for reference and practice of front-end development concepts.
6. **JavaScript ES6 Documentation** – Referenced for implementing form validation and DOM manipulation techniques.

GLOSSARY:

HTML (HyperText Markup Language):

A standard markup language used to create the basic structure of web pages using elements such as headings, paragraphs, sections, forms, and links.

CSS (Cascading Style Sheets):

A styling language used to design and control the layout, colors, fonts, spacing, and responsiveness of web pages.

JavaScript:

A scripting language used to add interactivity and dynamic behavior to websites, such as form validation and DOM manipulation.

Responsive Web Design (RWD):

A design approach that ensures a website adapts properly to different screen sizes like desktop, tablet, and mobile devices.

CSS Variables:

Reusable custom properties defined in CSS to maintain consistent colors and styles throughout the website.

DOM (Document Object Model):

A programming interface that allows JavaScript to interact with and modify HTML elements dynamically.

Form Validation:

A process of checking user input fields to ensure correct and complete data before submission.

Flexbox:

A CSS layout module used to align and distribute space among items within a container efficiently.

CSS Grid:

A two-dimensional layout system in CSS used to create responsive grid-based designs.

UI (User Interface):

The visual design and layout through which users interact with the website.

UX (User Experience):

The overall experience and satisfaction a user feels while interacting with the website.

Hover Effect:

A visual change that occurs when a user places the mouse pointer over an element.

Client-Side Validation:

Validation process performed in the browser using JavaScript before sending data to a server.