

A

INTERNSHIP PROJECT REPORT

On

INTRODUCTION TO WEB DEVELOPMENT

Submitted to **Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur** in the partial
fulfilment of the requirements of the Degree of

Bachelor of Technology

in

Computer Science & Engineering

by

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Priyadarshini Bhagwati College of Engineering, Nagpur
Session: 2023-2024

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Certificate

This is to certify that the investigation described in this report titled **INTRODUCTION TO WEB DEVELOPMENT** has been carried out by **Mr. Arjun Omprakash Pali** during the internship project. The study was done in the organization, **Welt Edulearn, Nagpur**, in partial fulfilment of the requirement for the degree of **Bachelor of Technology in Computer Science & Engineering** of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. This work is the own work of the candidate, complete in all respects and is of sufficiently high standard to warrant its submission to the said degree.

Mr.D.B. Khadse

Internship In-charge

Mr. K.N. Hande

HOD

INTERNSHIP CERTIFICATE FROM THE ORGANIZATION



DECLARATION

I, **Arjun Omprakash Pali** here by declares that the project report entitles “**Introduction to Web Development**” has been submitted by me in partial fulfilment of the requirement for awarding degree in **Bachelor of Technology** in **Computer Science & Engineering** from Nagpur University.

I solemnly declare that this report is a result of internship work undertaken by me. It is my original work and has not been published anywhere nor has been submitted to any university/institute for the award of any degree before this.

Place: Nagpur

Date:

Arjun Pali

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Introduction

In this web demonstration, users are greeted with a clean and user-friendly login webpage. Here, they are prompted to input their personal credentials, such as their username and password. Behind the scenes, upon clicking the "Submit" button, a carefully crafted JavaScript function springs into action. This function triggers a loading action, which provides users with visual feedback, indicating that their request is being processed.

During this moment, users witness a loading message, reassuring them that their actions are being acknowledged. Once the loading process is complete, users are seamlessly redirected to another webpage. This transition occurs smoothly, without any jarring interruptions or delays. The redirected new webpage consists of the simple information about the web development and its aspect.

Objective and Scope of Study

Objective:

The primary objective of the internship program titled "Introduction to Web Development" was to provide hands-on experience and practical insights into the fundamental concepts and techniques of front-end web development. Through this internship, the aim was to equip participants with the necessary skills and knowledge required to design and create engaging user interfaces for websites. By immersing interns in real-world projects and guided learning experiences, the objective was to foster a deep understanding of HTML, CSS, and JavaScript, the cornerstone technologies of front-end development. Additionally, the internship aimed to cultivate problem-solving abilities, teamwork skills, and a professional work ethic essential for success in the field of web development.

Scope:

The scope of the internship program encompassed a comprehensive exploration of various aspects of front-end web development. Interns were introduced to the following key areas:

1. **HTML (Hypertext Markup Language):** Interns learned the fundamentals of HTML, including structuring web content, creating semantic markup, and understanding the role of HTML in building the foundation of web pages.
2. **CSS (Cascading Style Sheets):** The internship provided in-depth training in CSS, covering topics such as styling web elements, layout design, responsive web design principles, and the use of CSS frameworks.
3. **JavaScript:** Interns were introduced to JavaScript programming, focusing on essential concepts such as variables, data types, control structures, functions, and DOM manipulation.
4. **User Interface Design Principles:** The internship emphasized the importance of user-centric design principles, including usability, accessibility, and visual hierarchy. Participants learned to apply these principles in designing intuitive and aesthetically pleasing user interfaces.
5. **Project Work:** The internship offered practical experience through hands-on projects, allowing participants to apply their knowledge and skills to real-world scenarios. Projects ranged from building static web pages to creating interactive web applications, providing interns with a diverse portfolio of work.

Company Profile

Introduction:

Welt Edulearn mission is to empowers students through cutting-edge education, creating a knowledgeable and skilled workforce ready to take the challenge of rapidly changing world. Our faculty member are esteemed experts in their field, committed to shaping minds and uplifting communities. Since our inceptions we've proudly build and institution with a rich history of academic excellence and innovation. Our state of the art and lifelong learning for students form all backgrounds.

Our Vision:

To be a global leader in education, shaping lifelong learners and problems solvers, while breaking down educational boundaries for a brighter more empowered future.

Our Mission:

To empower students through cutting-edge education, foresting knowledge and skills for an ever-changing world, led by expert faculty with history of academic excellence and innovation.

Our Services Category:

1. IT Services and Certification: Our organization offers a suite of IT services alongside certification programs to equip your team with the skills and expertise needed for seamless operations and compliance.
2. Penetration Testing Services: With our rigorous penetration testing services, we uncover vulnerabilities in your systems, ensuring robust defense mechanisms against cyber threats.
3. Network Security and Monitoring: Our comprehensive network security solutions include real-time monitoring to detect and mitigate potential security breaches, safeguarding your infrastructure from unauthorized access.
4. Monitoring Security and Services: We provide advanced monitoring solutions and services to maintain the integrity and resilience of your IT environment, ensuring continuous protection against evolving threats.
5. Database Security: Protect your sensitive data with our database security solutions, offering encryption, access controls, and auditing to safeguard against unauthorized access and data breaches.
6. Cloud Security: Our cloud security services are designed to secure your cloud infrastructure and data, implementing robust measures to mitigate risks and ensure compliance with industry standards.

7. Web Security: Safeguard your web applications and platforms with our web security solutions, including vulnerability assessments, firewall configurations, and threat intelligence to defend against cyber-attacks.
8. Network Security: Strengthen your network defenses with our comprehensive network security solutions, offering intrusion detection, firewall management, and threat mitigation to protect against cyber threats.

Contact:

Email: info@weltdulearn.com

Address: 203 Gandhi Sagar Mahal, Nagpur, Maharashtra, India

Methodology

Introduction:

- Provide an overview of the internship program, including its objectives, duration, and the organization where it took place.
- Briefly outline the importance of front-end web development in today's digital landscape.

Internship Objectives:

- Clearly define the objectives of the internship, such as gaining practical experience in HTML, CSS, and JavaScript.
- Outline the specific skills and knowledge expected to be acquired during the internship.

Internship Activities:

- Detail the various activities and tasks undertaken during the internship, such as:
- Attending training sessions on front-end technologies.
- Participating in hands-on projects to design and develop web interfaces.
- Collaborating with team members on real-world web development projects.

Learning Outcomes:

- Discuss the knowledge and skills acquired throughout the internship, including:
- Proficiency in HTML, CSS, and JavaScript.
- Understanding of front-end development best practices.
- Ability to create responsive and visually appealing web interfaces.

Challenges Faced:

- Identify any challenges or obstacles encountered during the internship, such as:
- Technical difficulties in implementing certain features.
- Time constraints in meeting project deadlines.
- Communication issues within the team.

Lessons Learned:

- Reflect on the lessons learned from the internship experience, including:
- The importance of teamwork and collaboration in web development projects.
- The value of problem-solving and critical thinking skills in overcoming challenges.
- The significance of continuous learning and staying updated with emerging web technologies.

Program Code:

index.html

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>User Form</title>

    <link rel="stylesheet" href="styles.css">

</head>

<body>

    <div class="container">

        <form id="userForm">

            <label for="name">Name:</label><br>

            <input type="text" id="name" name="name" required><br>

            <label for="email">Email:</label><br>

            <input type="email" id="email" name="email" required><br>

            <label for="password">Password:</label><br>

            <input type="password" id="password" name="password" required><br><br>

            <input type="submit" value="Submit">

        </form>

    </div>

    <script src="script.js"></script>

</body>

</html>
```

Styles.css

```
body {

    background-color: #A3BAC3;

    display: flex;

    justify-content: center;

    align-items: center;

    height: 100vh;

    margin: 0;

}
```

```
.container {
    background-color: #006989;
    border: 2px solid white;
    border-radius: 10px;
    padding: 20px;
    box-sizing: border-box;
    width: 300px;
}

.container form {
    display: flex;
    flex-direction: column;
}

.container label {
    color: white;
    margin-bottom: 5px;
}

.container input[type="text"],
.container input[type="email"],
.container input[type="password"] {
    padding: 5px;
    margin-bottom: 10px;
    border: none;
    border-radius: 5px;
}

.container input[type="submit"] {
    padding: 10px;
    background-color: #fff;
    color: #006989;
    border: none;
    border-radius: 5px;
    cursor: pointer;
}
```

Script.js

```
document.addEventListener("DOMContentLoaded", function() {

    // Get the form element

    var form = document.getElementById("userForm");

    // Add event listener for form submission

    form.addEventListener("submit", function(event) {

        // Prevent the default form submission behavior

        event.preventDefault();

        // Display loading message

        showLoading();

        // Wait for 3 seconds before opening the new page

        setTimeout(function() {

            // Open the new page

            window.open("nextpage.html", "_self"); // "_self" opens the page in the
same tab

        }, 3000);

    });

    // Function to display loading message

    function showLoading() {

        var loadingDiv = document.createElement("div");

        loadingDiv.textContent = "Loading...";

        loadingDiv.style.position = "fixed";

        loadingDiv.style.top = "50%";

        loadingDiv.style.left = "50%";

        loadingDiv.style.transform = "translate(-50%, -50%)";

        loadingDiv.style.background = "rgba(255, 255, 255, 0.8)";

        loadingDiv.style.padding = "20px";

        loadingDiv.style.borderRadius = "10px";

        loadingDiv.style.boxShadow = "0 4px 8px rgba(0, 0, 0, 0.1)";

        loadingDiv.style.zIndex = "9999";

        document.body.appendChild(loadingDiv);

    }

});
```

Nextpage.html

```
<!DOCTYPE html>

<html lang="en">

<head>


    <title>Web Development</title>

    <link rel="stylesheet" href="styles2.css">

</head>

<body>

    <header>

        <div class="header-container">

            <h1>Welcome to the World of Web Development</h1>

            <p>Explore, Learn, Create</p>

        </div>

    </header>


    <section class="content">

        <div class="container">

            <h2>About Web Development</h2>

            <div class="card">

                <p>Web development is the process of building and maintaining
                websites. It encompasses various aspects including web design, content creation,
                client-side scripting, server-side scripting, and more. With the continuous
                evolution of technology, web development offers endless possibilities for
                innovation and creativity.</p>

            </div>

        </div>

    </section>


    <section class="skills">

        <div class="container">

            <h2>Skills Required for Web Development</h2>

            <div class="card">

                <ul>

                    <li>HTML</li>

                    <li>CSS</li>

                    <li>JavaScript</li>

                </ul>

            </div>

        </div>

    </section>

</body>

</html>
```

```

        <li>Responsive Design</li>
        <li>Version Control (e.g., Git)</li>
        <li>Backend Development (e.g., Node.js, PHP, Python)</li>
        <li>Database Management</li>
        <li>Security Best Practices</li>
        <li>Problem-Solving Skills</li>
        <li>UI/UX Design Principles</li>
        <li>SEO Basics</li>
    </ul>
</div>
</div>
</section>

<section class="resources">
    <div class="container">
        <h2>Resources for Learning Web Development</h2>
        <div class="card">
            <ul>
                <li>Online Courses (e.g., Udemy, Coursera, Codecademy)</li>
                <li>Books (e.g., "Eloquent JavaScript", "HTML and CSS: Design
and Build Websites")</li>
                <li>Interactive Tutorials (e.g., freeCodeCamp, W3Schools)</li>
                <li>Community Forums and Discussion Boards (e.g., Stack
Overflow, Reddit)</li>
                <li>YouTube Channels (e.g., Traversy Media, The Net Ninja)</li>
                <li>Web Development Bootcamps</li>
                <li>Web Development Blogs and Websites (e.g., CSS-Tricks,
Smashing Magazine)</li>
                <li>Online Coding Challenges (e.g., HackerRank, LeetCode)</li>
                <li>Networking Events and Meetups</li>
                <li>Internship Opportunities</li>
            </ul>
        </div>
    </div>
</section>

<section class="projects">
    <div class="container">

```

```
<footer>

  <div class="footer-container">

    <p>Created by Arjun Pali</p>

  </div>

</footer>

</body>

</html>
```

Styles2.css

```
body {

  font-family: Arial, sans-serif;

  margin: 0;

  padding: 0;

  background-color: #f2f2f2;

}

header {

  background-color: #006989;

  color: white;

  padding: 50px 0;

  text-align: center;

}

.header-container {

  max-width: 800px;

  margin: 0 auto;

}

.container {

  max-width: 800px;

  margin: 0 auto;

  padding: 20px;

  box-sizing: border-box;

}

.card {
```



```
    background-color: white;
    border-radius: 10px;
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
    padding: 20px;
    margin-top: 20px;
}

.content h2,
.skills h2,
.resources h2,
.projects h2 {
    text-align: center;
}

footer {
    background-color: #006989;
    color: white;
    padding: 20px 0;
    text-align: center;
}

.footer-container {
    max-width: 800px;
    margin: 0 auto;
}
```

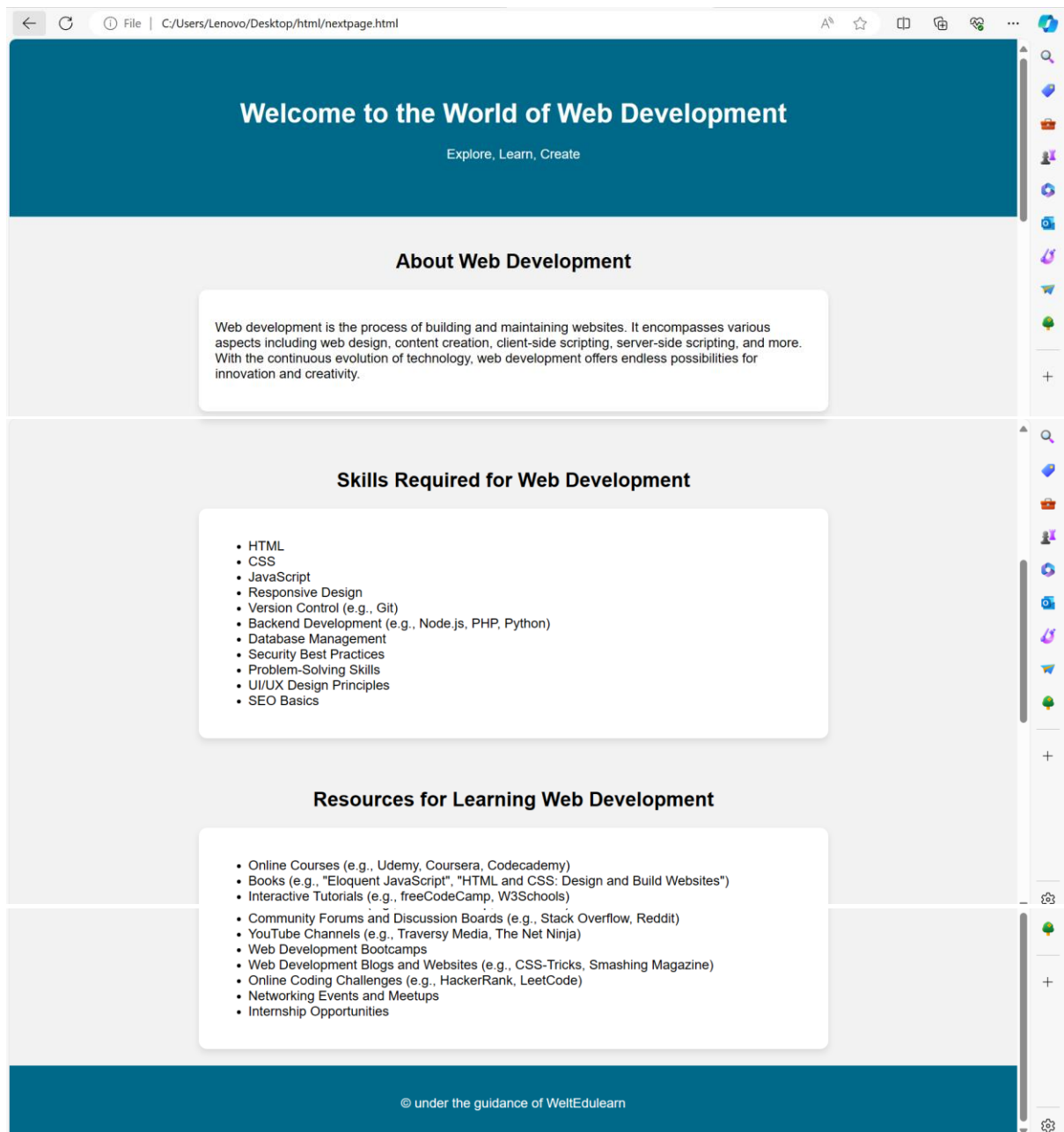
Output:

The image displays two screenshots of a web browser showing a login form. The browser's address bar indicates the file path: `C:/Users/Lenovo/Desktop/html/index.html`.

Top Screenshot: The login form is centered on a light blue background. It consists of a dark blue container with the following elements:

- Name:** A text input field containing the value `WE_1225`.
- Email:** A text input field containing the value `student.1225@gmail.com`.
- Password:** A password input field with masked characters (dots) and a toggle icon.
- Submit:** A white button with the text `Submit`.

Bottom Screenshot: This screenshot shows the same login form, but with a light blue `Loading...` overlay positioned over the Email input field, indicating a loading or processing state.



Conclusion:

In conclusion, my internship experience at **Welt Edulearn** has been incredibly rewarding and insightful, particularly in the realm of web development. Over the course of my tenure, I delved into the intricacies of HTML and CSS, gaining a deeper understanding of their functionalities and applications in crafting compelling web content.

Under the guidance of seasoned professionals at Welt Edulearn, I was able to grasp essential concepts and techniques essential for creating user-friendly and visually appealing websites. Through hands-on projects and collaborative tasks, I honed my skills and developed a keen eye for design principles and coding practices.

Moreover, my time at Welt Edulearn provided me with invaluable exposure to real-world scenarios and challenges encountered in web development projects. This practical experience not only solidified my understanding of HTML and CSS but also equipped me with problem-solving abilities crucial for navigating the dynamic landscape of web development.

Overall, my internship at Welt Edulearn has been instrumental in shaping my journey as a budding web developer. I am deeply grateful for the mentorship, support, and opportunities provided by the organization, and I am excited to leverage the knowledge and skills acquired during this internship to contribute meaningfully to future endeavours in the field of web development.