**Internship**

*on*

# Web Development

A internship report submitted in partial fulfilment of requirements for the award of the Degree of B.tech

## Degree of Bachelor of Technology in Computer Science & Engineering



**Submitted By - SUBMITTED TO -**

DHRUV TIWARI Mr. Ritesh

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# DECLARATION

I hereby declare that my Internship Report entitled, ("**Web Development**") is an authentic record of my work as requirements from August 2024 to December 2024 for the award of degree of B.Tech.(Computer Science & Engineering), NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY, under the guidance of Mr. Ritesh Assistant professor, CSE

**(Name - Dhruv Tiwari)**

**(University Roll No. 2101330100098)**

## Date: 20/12/2024

Certified that the above statement made by the student is correct to the best of our knowledge and belief.

**Examined by:**

**Mr. Ritesh**

**Assistant professor, CSE**

## Head of Department (Signature and Seal)

**ACKNOWLEDGEMENT**

The successful completion of this internship at Cognifyz Technologies marks a significant milestone in my journey as a web developer. I am deeply grateful to Cognifyz Technologies for providing this invaluable opportunity to work and learn under their esteemed guidance. I extend my heartfelt thanks to my mentors at Cognifyz for their constant encouragement, insightful feedback, and unwavering support throughout this experience.

I am profoundly thankful to our Director, Dr. Vinod M. Kapse, for permitting and encouraging me to pursue this internship. I also express my sincere gratitude to Dr. Kumud Saxena, Head of the Department of Computer Science & Engineering, whose motivation and guidance have been instrumental in my professional growth.

A special note of appreciation goes to my professors for their unwavering support and sacrifices that have paved the way for my academic and personal achievements. Their dedication has provided me with the opportunities to explore and excel.

Finally, I extend my heartfelt thanks to my parents, classmates, friends, and family members who have contributed to my journey, making this internship a truly enriching experience. Without their infinite love and patience, this milestone would not have been possible.

**CERTIFICATE OF COMPLETION**

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# Learning Objectives

* Internships provide a valuable opportunity to gain real-world experience and develop practical skills, making them beneficial not only for college students but also for individuals from diverse backgrounds.
* The objective of an internship is to build on existing skills while fostering a deeper understanding of the field. It is also an opportunity to explore new areas of interest and expand professional expertise.

* Internships span various career fields, including architecture, engineering, healthcare, economics, advertising, and beyond, offering tailored learning experiences for each domain.

* Some internships are research-oriented, allowing individuals to engage in scientific exploration, while others focus on providing firsthand work experience in professional settings.

* They serve as a great tool for building resumes, enhancing employability, and developing skills that stand out to potential employers. Highlighting unique talents and accomplishments during an internship application increases the likelihood of securing the opportunity and maximizing its benefits.

1. **INTRODUCTION**

***1.1. WEB DEVELOPMENT***

Web development encompasses the creation, building, and maintenance of websites. It involves various aspects, including web design, web publishing, web programming, and database management. Web development is essentially the process of creating applications that function over the internet, such as websites.

* **Web**: Refers to websites, web pages, or any application functioning over the internet.
* **Development**: Involves building applications from scratch, implementing functionalities, and ensuring performance.

***1.2. CLASSIFICATION OF WEB DEVELOPMENT***

* Front-End Development:-Front-end web development, also known as client-side development, focuses on the visual and interactive components of a website. It uses technologies like HTML, CSS, and JavaScript to ensure users can see and interact with the website seamlessly. The field evolves rapidly, requiring developers to stay updated on tools and techniques for creating engaging and responsive user interfaces.
* Back-End Development:]-Back-end development refers to server-side programming that ensures a website functions correctly. It involves managing databases, back-end logic, application programming interfaces (APIs), architecture, and servers. Back-end developers use programming languages to enable browsers to communicate with databases, manage data, and maintain security and performance.

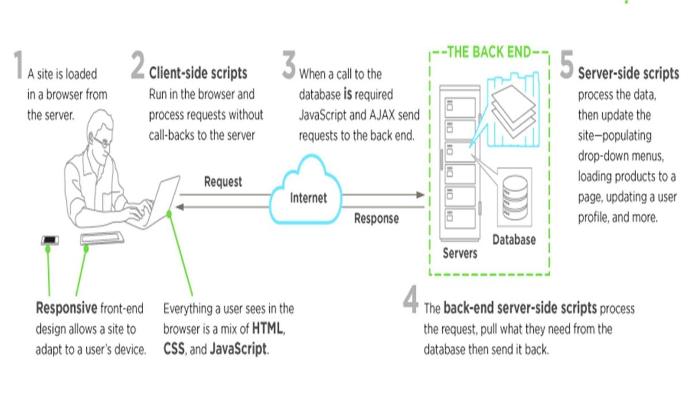
***1.3. SKILLS REQUIRED FRONT END WEB DEVELOPMENT***

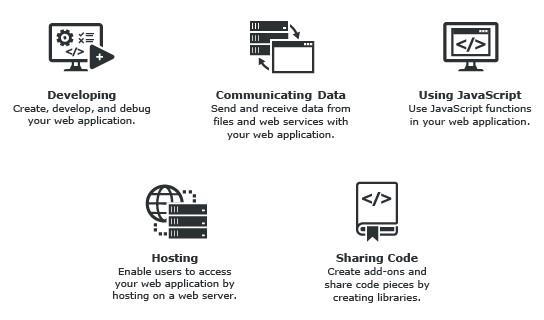
* **HTML:** Hyper Text Markup Language (HTML) is the standard markup language used for creating web pages. It is the most basic building block required for developing websites
* **CSS**: Cascading Style Sheets (CSS) is used to apply styles to web pages. It is used to make web pages presentable. The reason for using this is to simplify the process of making web pages presentable. It allows you to apply styles on web pages. More importantly, it enables you to do this independently of the HTML that makes up each web page.
* **JavaScript:** JavaScript is a very powerful tool that can do many things for a website. For one, it powers the site’s general interactivity. JavaScript makes it possible to build rich UI components such as image sliders, pop-ups, site navigation mega menus, form validations, tabs, accordions, and much more.

***1.4. WORKING OF WEBSITE***

A website is a collection of interconnected webpages under a single domain name that display information through elements such as text, photos, and videos. Users access websites using devices with web browsers, like laptops, smartphones, or tablets, connected to the internet. Websites function on a client-server model, where the browser (client) sends requests to the server, which processes the requests, retrieves data from databases, and delivers it back to the browser for display. Modern websites enhance user experience through interactive features such as forms, search functionality, and multimedia content while ensuring seamless and responsive design across various devices.

**Fig 1.1 Working of a Website**



**Fig 1.2 Web Application Development Process** 

1. **TRAINING DETAILS**

***2.1. Hyper Text Markup Language (HTML)***

HTML (Hyper Text Markup Language) is the most basic building block of the Web. It defines the meaning and structure of web content. Other technologies besides HTML are generally used to describe a web page's appearance/presentation (CSS) or functionality/behavior (JavaScript).

"Hypertext" refers to links that connect web pages to one another, either within a single website or between websites. Links are a fundamental aspect of the Web. By uploading content to the Internet and linking it to pages created by other people, you become an active participant in the World Wide Web.

HTML uses "markup" to annotate text, images, and other content for display in a Web browser. HTML markup includes special "elements" such as **<head>, <title>, <body>, <header>,** **<footer>, <article>, <section>, <p>, <div>, <span>, <img>, <nav>, <video>, <ul>, <ol>,** **<li>** and many others.

***2.1.1. Features of HTML:***

1) It is a very easy and simple language. It can be easily understood and modified.

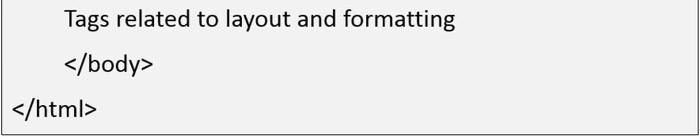
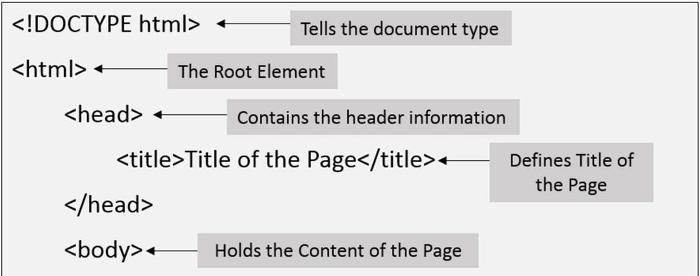
2) It is very easy to make an effective presentation with HTML because it has a lot of formatting tags. 3) It is a markup language, so it provides a flexible way to design web pages along with the text.

4) It facilitates programmers to add a link on the web pages (by html anchor tag), so it enhances the interest of browsing of the user.

5) It is platform-independent because it can be displayed on any platform like Windows, Linux etc.

***2.1.2. HTML Page Structure:***

Fig 1.3. HTML page structure

**<!DOCTYPE>:** It defines the document type or it instruct the browser about the version of **<body>:** Text between body tag describes the body content of the page that is visible to the end user. This tag contains the main content of the HTML document.

***2.2. Cascading Style Sheets (CSS)***

Cascading Style Sheets are fondly referred to as CSS. It is used to make web pages presentable. The reason for using this is to simplify the process of making web pages presentable. It allows you to apply styles on web pages. More importantly, it enables you to do this independently of the HTML that makes up each web page.

**2.2.1. Features of CSS**

1). Font, color, background style, element alignments, border, and size tags had to be duplicated on each web page before CSS. This was a lengthy procedure.

2). CSS makes website maintenance much easier. If we need to make a global change to the file, we can simply alter the style, which will update all of the elements on the web page.

3). We can use CSS with older language versions because it is compatible with them. CSS makes it possible to optimize material for several devices

4). A website that’s dull and plain will not attract the user, so adding some style would surely make your website presentable to the user.

5). A website with a simple yet beautiful UI would help the users to go through the website easily. It is used to make the user interface better.

**2.2.2. Types of CSS:**

There are three types of CSS which are given below:

*1. Inline CSS*

*2. Internal CSS*

*3. External CSS*

* **Inline CSS:** Inline CSS contains the CSS property in the body section attached with element is known as inline CSS. This kind of style is specified within an HTML tag using the style attribute.
* **Internal or Embedded CSS:** This can be used when a single HTML document must be styled uniquely. The CSS rule set should be within the HTML file in the head section i.e., the CSS is embedded within the HTML file.

* **External CSS:** External CSS contains separate CSS file which contains only style property with the help of tag attributes (For example class, id, heading, … etc.). CSS property written in a separate file with .css extension and should be linked to the HTML document using link tag. This means that for each element, style can be set only once and that will be applied across web pages.

**2.2.3. Properties of CSS:**

Inline CSS has the highest priority, then comes Internal/Embedded followed by External CSS which has the least priority. Multiple style sheets can be defined on one page. If for an HTML tag, styles are defined in multiple style sheets then the below order will be followed.

1. As Inline has the highest priority, any styles that are defined in the internal and external style sheets are overridden by Inline styles.
2. Internal or Embedded stands second in the priority list and overrides the styles in the external style sheet.
3. External style sheets have the least priority. If there are no styles defined either in inline or internal style sheet then external style sheet rules are applied for the HTML tags.

**2.3. JavaScript (JS)**

JavaScript (JS) is the world’s most popular lightweight, interpreted compiled

programming language. It is also known as a scripting language for web

pages. It can be used for Client-side as well as Server-side developments.

JavaScript can be added to your HTML file in two ways:

***2.3.1. Types of JavaScript***

***Internal JavaScript:***

We can add JS code directly to our HTML file by

writing the code inside the <script> tag. The <script> tag can either be placed

inside the <head> or the <body> tag according to the requirement.

***External JavaScript File:***

We can create a file with .js extension and paste

the JS code inside it. After creating the file, add this file in

<script src=” file\_name.js”> tag inside <head> tag of the HTML file.

***2.3.2. Features of JavaScript***

1) All popular web browsers support JavaScript as they provide built-in execution environments.

2) JavaScript follows the syntax and structure of the C programming language. Thus, it is a structured programming language.

3) JavaScript is a weakly typed language, where certain types are implicitly cast (depending on the operation).

4) JavaScript is an object-oriented programming language that uses prototypes rather than using classes for inheritance.

5) It is a light-weighted and interpreted language.

6) It is a case-sensitive language.

**3. PROJECT**

***3.1* Description:**

Welcome to our exciting web Development internship program! To complete this internship, you will have the chance to choose any 2 of 3 levels: Level 1, Level 2, or Level 3. We've designed these levels to cater to your convenience and ensure an engaging and rewarding experience. Additionally, the successful completion of Level 3 will further enhance your chances of receiving a stipend.

***3.2* Source Code:**

* **Level - 1**

Task 1 (HTML/CSS):

* Create a simple webpage with a heading, paragraph, and image using HTML and CSS.
* Build a basic form with a single input field and a submit button using HTML and CSS.
* Design and code a simple navigation menu with three links using HTML and CSS.

**Index.html**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <link rel="preconnect" href="https://fonts.googleapis.com">

    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>

    <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600&display=swap" rel="stylesheet">

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

    <title>Web Development:- (Level-1,Task-1)</title>

</head>

<body>

    <div id="container">

        <!-- Header -->

        <header>

            <nav id="navbar">

                <div id="logo-section">

                    <a href="https://cognifyz.com/" target="\_blank">

                        <img id="logo" src="https://cognifyz.com/wp-content/uploads/2023/11/cognifyz-1.png"

                            alt="Cognifyz Logo">

                    </a>

                    <h1 id="logo-caption">Insights That Drive Decisions</h1>

                </div>

                <ul id="nav-links">

                    <li><a href="https://cognifyz.com/" target="\_blank" class="nav-link">Home</a></li>

                    <li><a href="https://cognifyz.com/about-us/" target="\_blank" class="nav-link">About Us</a></li>

                    <li><a href="https://cognifyz.com/contact-us/" target="\_blank" class="nav-link">Contact Us</a></li>

                </ul>

            </nav>

        </header>

        <!-- Main Content -->

        <main>

            <section id="introduction">

                <h1>Cognifyz Technologies</h1>

                <p>Empowering Businesses with Data-Driven Insights</p>

            </section>

            <section id="image-section">

                <figure>

                    <img id="image" src="./images.jpeg" alt="Cognifyz Image">

                    <figcaption>Innovating for a Smarter Future</figcaption>

                </figure>

            </section>

            <section id="form-section">

                <h2>Join Our Team!</h2>

                <p>Apply for exciting internship opportunities with us!</p>

                <form id="form">

                    <input type="email" id="email-input" placeholder="Enter your email" required>

                    <button id="submit-button">Apply Now</button>

                </form>

            </section>

        </main>

        <!-- Footer -->

        <footer>

            <p>&copy; 2024 Cognifyz Technologies | Made with ❤︎ by Dhruv</p>

        </footer>

    </div>

</body>

</html>

**Styles.css**

/\* General styles \*/

\* {

    margin: 0;

    padding: 0;

    box-sizing: border-box;

    font-family: "Poppins", sans-serif;

}

body {

    background: #f9f9f9;

    color: #2a2828;

}

/\* Header Section \*/

header {

    background: gray;

    color: #fff;

    padding: 10px 20px;

    display: flex;

    align-items: center;

    justify-content: space-between;

    position: sticky;

    top: 0;

    z-index: 100;

}

#logo-section {

    display: flex;

    align-items: center;

}

#logo {

    height: 50px;

    margin-right: 10px;

}

#logo-caption {

    font-size: 1.2rem;

    font-weight: 500;

    color: #ccc;

}

#nav-links {

    list-style: none;

    display: flex;

    gap: 20px;

}

.nav-link {

    color: #fff;

    text-decoration: none;

    font-weight: 500;

    transition: 0.3s;

}

.nav-link:hover {

    color: #0d6efd;

    transform: scale(1.1);

}

/\* Main Section \*/

main {

    padding: 20px;

    text-align: center;

}

#introduction h1 {

    font-size: 2.5rem;

    color: #0d6efd;

    margin-bottom: 10px;

}

#introduction p {

    font-size: 1.2rem;

    color: #555;

}

#image-section {

    margin: 30px auto;

}

#image {

    max-width: 100%;

    height: auto;

    border-radius: 10px;

    box-shadow: 0 4px 10px rgba(0, 0, 0, 0.1);

}

#image-section figcaption {

    margin-top: 10px;

    font-size: 1rem;

    color: #333;

}

/\* Form Section \*/

#form-section {

    background: #fff;

    margin: 30px auto;

    padding: 20px;

    border-radius: 10px;

    box-shadow: 0 4px 15px rgba(0, 0, 0, 0.1);

    max-width: 500px;

}

#form-section h2 {

    color: #0d6efd;

    font-size: 1.8rem;

    margin-bottom: 10px;

}

#form-section p {

    margin-bottom: 20px;

    font-size: 1.1rem;

    color: #555;

}

#email-input {

    width: 100%;

    padding: 10px;

    border: 2px solid #ccc;

    border-radius: 5px;

    margin-bottom: 10px;

}

#email-input:focus {

    outline: none;

    border-color: #0d6efd;

    box-shadow: 0 0 5px rgba(13, 110, 253, 0.5);

}

#submit-button {

    background: #0d6efd;

    color: #fff;

    padding: 10px 20px;

    border: none;

    border-radius: 5px;

    cursor: pointer;

    transition: 0.3s;

}

#submit-button:hover {

    background: #0056b3;

    transform: scale(1.05);

}

/\* Footer Section \*/

footer {

    background: #333;

    color: #ccc;

    text-align: center;

    padding: 10px 20px;

    margin-top: 20px;

    position: relative;

}

footer p {

    font-size: 0.9rem;

    letter-spacing: 0.5px;

}

Task 2 (JavaScript):

* Develop a basic button that changes its color when clicked using JavaScript.
* Create an alert box that displays a greeting message based on the current time using JavaScript.
* Build a basic calculator that adds two numbers together and displays the result using JavaScript.

**Index.html**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

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

    <title>Web Development:- (Level-1,Task-2)</title>

</head>

<body>

    <div id="bg-image"></div>

    <div id="container">

        <h1>Interactive Calculator</h1>

        <p id="welcome-message"></p>

        <div id="upper">

            <input id="input-1" type="number" placeholder="first number" required>

            <p id="plus"> + </p>

            <input id="input-2" type="number" placeholder="second number" required>

        </div>

        <p id="equals"> = </p>

        <div id="mid">

            <div id="result">0</div>

        </div>

        <div id="lower">

            <button id="add-btn">ADD</button>

            <button id="reset-btn">RESET</button>

        </div>

    </div>

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

</body>

</html>

**Styles.css**

\* {

    box-sizing: border-box;

    text-align: center;

    font-family: Arial, sans-serif;

    margin: 0;

    padding: 0;

}

body {

    background-color: #f3f4f7;

    color: #333;

}

#bg-image {

    position: absolute;

    background-image: url('./images.jpg');

    height: 100%;

    width: 100%;

    background-size: cover;

    background-position: center;

    filter: blur(15px) brightness(0.7);

    z-index: -1;

}

#container {

    width: 80%;

    max-width: 800px;

    margin: 50px auto;

    padding: 30px;

    background: rgba(255, 255, 255, 0.9);

    border-radius: 15px;

    box-shadow: 0px 4px 15px rgba(0, 0, 0, 0.2);

}

h1 {

    font-size: 2.5rem;

    color: #0d6efd;

    margin-bottom: 20px;

}

#welcome-message {

    font-size: 1.2rem;

    color: #555;

    margin-bottom: 30px;

}

#upper {

    display: flex;

    justify-content: center;

    align-items: center;

    margin: 20px 0;

}

#input-1, #input-2 {

    height: 50px;

    width: 150px;

    font-size: 1.2rem;

    margin: 0 10px;

    border-radius: 8px;

    border: 2px solid #ccc;

    transition: 0.3s;

}

#input-1:focus, #input-2:focus {

    border-color: #0d6efd;

    box-shadow: 0px 0px 8px rgba(13, 110, 253, 0.5);

}

#plus, #equals {

    font-size: 1.5rem;

    font-weight: bold;

    margin: 0 10px;

}

#mid {

    margin: 20px 0;

}

#result {

    font-size: 2rem;

    color: #212529;

    background: #e9ecef;

    padding: 10px 20px;

    border: 2px solid #ddd;

    border-radius: 8px;

}

#lower {

    margin-top: 20px;

}

#add-btn, #reset-btn {

    font-size: 1.2rem;

    padding: 10px 20px;

    margin: 10px;

    border-radius: 8px;

    border: none;

    cursor: pointer;

    transition: 0.3s;

}

#add-btn {

    background-color: #0d6efd;

    color: white;

}

#add-btn:hover {

    background-color: #0056b3;

}

#reset-btn {

    background-color: #dc3545;

    color: white;

}

#reset-btn:hover {

    background-color: #a71d2a;

}

**Script.js**

const addButton = document.getElementById("add-btn");

const resetButton = document.getElementById("reset-btn");

const resultDiv = document.getElementById("result");

const input1 = document.getElementById("input-1");

const input2 = document.getElementById("input-2");

const welcomeMessage = document.getElementById("welcome-message");

// Display a dynamic welcome message based on the current time

const setWelcomeMessage = () => {

    const hours = new Date().getHours();

    let message = "Welcome!";

    if (hours >= 4 && hours < 12) {

        message = "Good Morning! Let's calculate!";

    } else if (hours >= 12 && hours < 18) {

        message = "Good Afternoon! Ready to crunch some numbers?";

    } else {

        message = "Good Evening! Let's do some math!";

    }

    welcomeMessage.textContent = message;

};

// Perform addition and validate input

const add = () => {

    const num1 = parseFloat(input1.value);

    const num2 = parseFloat(input2.value);

    if (isNaN(num1) || isNaN(num2)) {

        alert("Please enter valid numbers in both fields!");

        return;

    }

    addButton.classList.add("clicked");

    setTimeout(() => {

        addButton.classList.remove("clicked");

    }, 300);

    resultDiv.textContent = `Result: ${num1 + num2}`;

};

// Reset inputs and result

const reset = () => {

    input1.value = "";

    input2.value = "";

    resultDiv.textContent = "0";

};

// Set up event listeners

addButton.onclick = add;

resetButton.onclick = reset;

// Initialize page

window.onload = () => {

    setWelcomeMessage();

    reset();

};

* **Level - 2**

Task 1 (Front-end Frameworks):

* Use a front-end framework like Bulma or UIKit to create a responsive card component with an image and text.
* Implement a basic responsive grid layout using a front-end framework like Bootstrap or Foundation.

**Index.html**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Web Development:- (Level-2, Task-1)</title>

    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet">

    <link href="https://cdn.jsdelivr.net/npm/bulma@0.9.3/css/bulma.min.css" rel="stylesheet">

    <style>

        :root {

            --main-background-color: #f8f9fa;

            --main-font-color: #333;

            --primary-color: #007bff;

            --secondary-color: #6c757d;

            --hover-color: #0056b3;

        }

        body {

            background-color: var(--main-background-color);

            color: var(--main-font-color);

            font-family: 'Arial', sans-serif;

        }

        .navbar {

            background-color: var(--primary-color) !important;

        }

        .navbar-nav .nav-link {

            color: white !important;

            font-weight: bold;

            transition: color 0.3s ease;

        }

        .navbar-nav .nav-link:hover {

            color: var(--hover-color) !important;

        }

        .section-title {

            font-size: 2.5rem;

            font-weight: 700;

            text-transform: uppercase;

            color: var(--primary-color);

            text-align: center;

            margin-bottom: 2rem;

        }

        .card {

            box-shadow: 0px 4px 8px rgba(0, 0, 0, 0.2);

            border: none;

            transition: transform 0.3s ease;

        }

        .card:hover {

            transform: scale(1.05);

        }

        .card-title {

            font-size: 1.3rem;

            font-weight: 600;

            color: var(--primary-color);

        }

        .footer {

            background-color: var(--secondary-color);

            color: white;

            text-align: center;

            padding: 1rem;

        }

        .footer a {

            color: var(--primary-color);

            text-decoration: none;

            font-weight: bold;

        }

        .footer a:hover {

            color: var(--hover-color);

        }

        .btn-primary {

            background-color: var(--primary-color);

            border-color: var(--primary-color);

            transition: background-color 0.3s ease;

        }

        .btn-primary:hover {

            background-color: var(--hover-color);

            border-color: var(--hover-color);

        }

    </style>

</head>

<body>

    <!-- Header Section -->

    <header class="bg-light shadow-sm">

        <nav class="navbar navbar-expand-lg navbar-dark">

            <div class="container">

                <a class="navbar-brand" href="https://cognifyz.com/">

                    <img src="https://cognifyz.com/wp-content/uploads/2023/11/cognifyz-1.png" alt="Logo" width="120">

                </a>

                <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav"

                    aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">

                    <span class="navbar-toggler-icon"></span>

                </button>

                <div class="collapse navbar-collapse" id="navbarNav">

                    <ul class="navbar-nav ms-auto">

                        <li class="nav-item">

                            <a class="nav-link" href="https://cognifyz.com/">Home</a>

                        </li>

                        <li class="nav-item">

                            <a class="nav-link" href="https://cognifyz.com/about-us/">About Us</a>

                        </li>

                        <li class="nav-item">

                            <a class="nav-link" href="https://cognifyz.com/contact-us/">Contact Us</a>

                        </li>

                    </ul>

                </div>

            </div>

        </nav>

    </header>

    <!-- Courses Section -->

    <section class="container py-5">

        <h2 class="section-title">Our Courses</h2>

        <div class="row row-cols-1 row-cols-md-3 g-4">

            <!-- Card 1 -->

            <div class="col">

                <div class="card">

                    <img src="https://media.licdn.com/dms/image/D4D12AQGRsL7h26w-Bg/article-cover\_image-shrink\_600\_2000/0/1711431970518?e=2147483647&v=beta&t=eCXkvFEX0RE1PWTsaZy24BBn9auH0QnfNMQqAzpIF0w"

                        class="card-img-top" alt="Full Stack Development">

                    <div class="card-body">

                        <h5 class="card-title">Full Stack Development</h5>

                        <p class="card-text">Master both frontend and backend development to create dynamic,

                            modern web applications using the latest technologies.</p>

                        <a href="https://cognifyz.com/courses/#" class="btn btn-primary" target="\_blank">Learn More</a>

                    </div>

                </div>

            </div>

            <!-- Card 2 -->

            <div class="col">

                <div class="card">

                    <img src="https://caddcentrethane.com/wp-content/uploads/2022/04/Python-for-Mechanical-Engineers-image\_-500x300.jpg"

                        class="card-img-top" alt="Python Certification">

                    <div class="card-body">

                        <h5 class="card-title">Python Certification</h5>

                        <p class="card-text">Learning Python programming and unlocking its potential in real-world applications

                            such as data analysis.</p>

                        <a href="https://cognifyz.com/courses/#" class="btn btn-primary" target="\_blank">Learn More</a>

                    </div>

                </div>

            </div>

            <!-- Card 3 -->

            <div class="col">

                <div class="card">

                    <img src="https://contentstatic.techgig.com/photo/90078629.cms"

                        class="card-img-top" alt="Java Course">

                    <div class="card-body">

                        <h5 class="card-title">Java Course</h5>

                        <p class="card-text">Master Java programming with OOP, algorithms, and real-world applications.</p>

                        <a href="https://cognifyz.com/courses/#" class="btn btn-primary" target="\_blank">Learn More</a>

                    </div>

                </div>

            </div>

        </div>

    </section>

    <!-- Footer -->

    <footer class="footer">

        <div class="container">

            Made with ❤ by Dhruv | <a href="https://cognifyz.com/">Cognifyz Technologies</a>

        </div>

    </footer>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js"></script>

</body>

</html>

Task 2 (Responsive Design):

* Convert a basic webpage into a responsive design that adapts to different screen sizes using CSS media queries.
* Create a mobile-friendly navigation menu that collapses into a hamburger menu on smaller screens using HTML and CSS.

**Index.html**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css" rel="stylesheet">

    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">

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

    <title>Web Development:- (Level-2 Task-2)</title>

</head>

<body>

    <div id="container">

        <!-- Header -->

        <header id="header" class="container-fluid d-flex justify-content-between align-items-center py-3">

            <img src="./cognifyzLogo.png" alt="Cognifyz Technologies Logo" class="img-fluid logo">

            <nav id="navbar">

                <ul class="nav-menu d-none d-lg-flex list-unstyled mb-0">

                    <li class="nav-link"><a href="https://cognifyz.com/" target="\_blank">Home</a></li>

                    <li class="nav-link"><a href="https://cognifyz.com/about-us/" target="\_blank">About Us</a></li>

                    <li class="nav-link"><a href="https://cognifyz.com/contact-us/" target="\_blank">Contact Us</a></li>

                    <li class="nav-link"><a href="https://cognifyz.com/internships/" target="\_blank">Apply</a></li>

                </ul>

                <div id="hamburger" class="d-lg-none">

                    <span class="bar"></span>

                    <span class="bar"></span>

                    <span class="bar"></span>

                </div>

            </nav>

        </header>

        <!-- Hero Section -->

        <div id="hero" class="container-fluid py-5">

            <div class="row">

                <div id="description" class="col-lg-7 col-md-12">

                    <p>

                        Cognifyz Technologies provides robust data analytics solutions that enable businesses to extract actionable insights from vast amounts of data.

                        By leveraging advanced algorithms and real-time analytics, businesses can identify trends, predict outcomes, and make informed decisions that enhance efficiency and drive growth.

                    </p>

                    <p>

                        Cognifyz Technologies integrates artificial intelligence (AI) and machine learning (ML) capabilities into business processes to optimize performance.

                        Their solutions help businesses automate tasks, improve decision-making, and enhance predictive capabilities, making organizations more agile and responsive in a fast-paced digital landscape.

                    </p>

                    <P>

                        Cognifyz Technologies excels in custom software development, creating solutions tailored to the specific needs of each client.

                        Their team builds scalable and secure applications that streamline operations, enhance user experiences, and enable businesses to stay ahead in the competitive market.

                    </P>

                </div>

                <div id="image" class="col-lg-5 col-md-12">

                    <img class="reference-img img-fluid" src="./image1.jpg" alt="">

                    <p class="caption">

                        <span class="quotes">"</span>

                        Adapt swiftly; technology waits for none.

                        <span class="quotes">"</span>

                    </p>

                </div>

            </div>

        </div>

        <!-- Footer -->

        <footer id="footer" class="container-fluid py-4 text-center">

            <p id="footer-head" class="mb-3">Follow us </p>

            <div id="social-links">

                <ul class="social-menu d-flex justify-content-center list-unstyled">

                    <li class="link mx-2">

                        <a href="https://www.linkedin.com/company/cognifyz-techonologies/" target="\_blank"><i class="fa fa-linkedin"></i></a>

                    </li>

                    <li class="link mx-2">

                        <a href="https://www.instagram.com/cognifyz\_tech/" target="\_blank"><i class="fa fa-instagram"></i></a>

                    </li>

                    <li class="link mx-2">

                        <a href="https://www.youtube.com/channel/UCw3AbKUno4NQMWcPGFGOEZA" target="\_blank"><i class="fa fa-youtube"></i></a>

                    </li>

                    <li class="link mx-2">

                        <a href="https://t.me/cognifyz\_technologies" target="\_blank"><i class="fa fa-telegram"></i></a>

                    </li>

                </ul>

            </div>

            <p id="author" class="mt-3"><a href="https://github.com/dsaikiran01">Made with ❤︎ by Dhruv</a></p>

        </footer>

    </div>

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>

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

</body>

</html>

**Styles.css**

@import url('https://fonts.googleapis.com/css2?family=Roboto:ital,wght@0,300;0,400;0,500;0,700&display=swap');

\* {

    box-sizing: border-box;

    margin: 0;

    padding: 0;

    font-family: 'Roboto', Arial, sans-serif;

    color: var(--main-text-color);

    text-decoration: none;

}

:root {

    --main-background-color: #f5faff;

    --main-text-color: #333;

    --header-bg-color: #ffffff;

    --navbar-bg-color: #4d94ff;

    --nav-links-bg-color: #80bfff;

    --nav-links-border-color: #0059b3;

    --nav-links-hover-bg-color: #0059b3;

    --hero-bg-color: #eaf3ff;

    --description-bg-color: #ffffff;

    --quotes-symbol-color: #0066cc;

    --caption-text-color: #666666;

    --footer-bg-gradient-start: #f0f7ff;

    --footer-bg-gradient-end: #d9e6ff;

    --author-text-color: #333333;

    --icons-color: #666666;

    --icons-hover-color: #0059b3;

}

body {

    background-color: var(--main-background-color);

    line-height: 1.6;

}

/\* Header Styling \*/

#header {

    display: flex;

    justify-content: space-between;

    align-items: center;

    padding: 15px 30px;

    background-color: var(--header-bg-color);

    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);

}

#header img {

    width: 150px;

}

#navbar {

    display: flex;

    align-items: center;

}

.nav-menu {

    display: flex;

    gap: 20px;

}

.nav-menu .nav-link {

    font-size: 16px;

    font-weight: 500;

    padding: 10px 15px;

    color: var(--nav-links-border-color);

    border: 2px solid var(--nav-links-border-color);

    background-color: var(--nav-links-bg-color);

    transition: all 0.3s ease;

    border-radius: 5px;

}

.nav-menu .nav-link:hover {

    background-color: var(--nav-links-hover-bg-color);

    color: #fff;

}

#hamburger {

    display: none;

    flex-direction: column;

    gap: 5px;

    cursor: pointer;

}

.bar {

    width: 30px;

    height: 3px;

    background-color: var(--main-text-color);

    transition: 0.3s;

}

/\* Hero Section \*/

#hero {

    display: flex;

    justify-content: space-between;

    align-items: center;

    margin: 30px auto;

    padding: 20px;

    background-color: var(--hero-bg-color);

    border-radius: 10px;

    box-shadow: 0 4px 12px rgba(0, 0, 0, 0.1);

}

#description {

    width: 55%;

    background-color: var(--description-bg-color);

    padding: 20px;

    border-radius: 8px;

    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);

}

#description h1, #description h2 {

    color: var(--nav-links-border-color);

    margin-bottom: 10px;

}

#description ul {

    margin-top: 15px;

    padding-left: 20px;

    list-style: disc;

}

#description ul li {

    margin-bottom: 10px;

}

#image {

    width: 40%;

}

.reference-img {

    width: 100%;

    border-radius: 8px;

    box-shadow: 0 4px 12px rgba(0, 0, 0, 0.1);

}

.caption {

    margin-top: 10px;

    text-align: center;

    font-style: italic;

    font-size: 18px;

    color: var(--caption-text-color);

}

.quotes {

    color: var(--quotes-symbol-color);

    font-size: 30px;

}

/\* Footer Section \*/

#footer {

    display: flex;

    justify-content: space-between;

    align-items: center;

    padding: 20px;

    background: linear-gradient(90deg, var(--footer-bg-gradient-start), var(--footer-bg-gradient-end));

    flex-wrap: wrap;

    text-align: center;

    gap: 20px;

}

#footer-head {

    font-size: 20px;

    font-weight: bold;

    color: var(--nav-links-border-color);

}

#social-links {

    display: flex;

    gap: 15px;

}

.social-menu .link {

    color: var(--icons-color);

    font-size: 24px;

    transition: transform 0.3s ease, color 0.3s ease;

}

.social-menu .link:hover {

    transform: scale(1.1);

    color: var(--icons-hover-color);

}

#author {

    font-size: 16px;

    color: var(--author-text-color);

}

#author a {

    font-weight: bold;

    color: var(--nav-links-border-color);

    transition: color 0.3s ease;

}

#author a:hover {

    color: var(--icons-hover-color);

}

/\* Media Query for Mobile \*/

@media screen and (max-width: 768px) {

    #header {

        flex-direction: column;

    }

    .nav-menu {

        flex-direction: column;

        gap: 10px;

    }

    #hero {

        flex-direction: column;

        gap: 20px;

    }

    #description {

        width: 90%;

    }

    #image {

        width: 90%;

    }

    #footer {

        flex-direction: column;

        gap: 15px;

    }

    .social-menu {

        justify-content: center;

    }

}

@media screen and (max-width: 480px) {

    #description {

        font-size: 14px;

    }

    .nav-link {

        font-size: 14px;

    }

    .caption {

        font-size: 14px;

    }

}

**Script.js**

const hamburger = document.getElementById("hamburger");

const navMenu = document.querySelector("#navbar .nav-menu");

const navLink = document.querySelectorAll(".nav-link");

function mobileMenu() {

    navMenu.classList.toggle("display");

}

function closeMenu() {

    navMenu.classList.remove("display");

}

hamburger.onclick = mobileMenu;

navLink.forEach(n => n.addEventListener("click", closeMenu));

* Level - 3

Task 1 (Image Manipulation):

* Use CSS to create a basic image gallery with thumbnail images that enlarge when clicked.
* Implement a simple image slideshow that automatically transitions between images using HTML and CSS.

**Index.html**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <meta name="description" content="Web development gallery showcasing services by Cognifyz Technologies, including frontend development, data analysis, and UI/UX design.">

<title>Web Development:- (Level-3 Task-1)</title>

    <!-- Font and Icon Links -->

    <link rel="preconnect" href="https://fonts.googleapis.com">

    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>

    <link href="https://fonts.googleapis.com/css2?family=Lato:wght@100;300;400;700;900&display=swap" rel="stylesheet">

    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">

    <!-- Custom Stylesheet -->

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

</head>

<body>

    <div id="container">

        <!-- Header Section -->

        <header id="header">

            <a href="https://cognifyz.com/">

                <img id="logo" src="./assets/cognifyzLogo.png" alt="Cognifyz Technologies Logo">

            </a>

            <nav id="navbar">

                <ul id="nav-menu">

                    <li class="nav-link"><a href="https://cognifyz.com/" target="\_blank">Home</a></li>

                    <li class="nav-link"><a href="https://cognifyz.com/about-us/" target="\_blank">About Us</a></li>

                    <li class="nav-link"><a href="https://cognifyz.com/contact-us/" target="\_blank">Contact Us</a></li>

                </ul>

            </nav>

            <div id="hamburger">

                <span class="bar"></span>

                <span class="bar"></span>

                <span class="bar"></span>

            </div>

        </header>

        <!-- Slideshow Section -->

        <div id="slideshow-container">

            <div class="mySlides fade">

                <div class="numbertext">1 / 3</div>

                <img src="./assets/slideshow/frontend development.jpg" alt="Frontend Development">

                <div class="text">Frontend Development</div>

            </div>

            <div class="mySlides fade">

                <div class="numbertext">2 / 3</div>

                <img src="./assets/slideshow/AppDevelopment.webp" alt="Mobile App Development">

                <div class="text">Mobile Application Development</div>

            </div>

            <div class="mySlides fade">

                <div class="numbertext">3 / 3</div>

                <img src="./assets/slideshow/WebDev-Training.jpeg" alt="Web Development Training">

                <div class="text">Web Development Training</div>

            </div>

        </div>

        <div id="slide-bottom-dots" role="navigation" aria-label="Slideshow Navigation Dots">

            <span class="dot" aria-label="Slide 1"></span>

            <span class="dot" aria-label="Slide 2"></span>

            <span class="dot" aria-label="Slide 3"></span>

        </div>

        <!-- Modal Section -->

        <div id="modal-overlay">

            <dialog id="enlarge-image">

                <img id="modal-image" alt="Enlarged Image">

            </dialog>

        </div>

        <!-- Gallery Section -->

        <div id="gallery">

            <figure>

                <img id="gallery-image" src="./assets/computer vision.jpeg" alt="Computer Vision">

                <a href="https://cognifyz.com/glow\_portfolio/computer-vision/" target="\_blank" rel="noreferrer">

                    <figcaption>Computer Vision</figcaption>

                </a>

            </figure>

            <figure>

                <img id="gallery-image" src="./assets/developer.jpeg" alt="C++ Developer">

                <a href="https://cognifyz.com/glow\_portfolio/c-c/" target="\_blank" rel="noreferrer">

                    <figcaption>C++ Developer</figcaption>

                </a>

            </figure>

            <figure>

                <img id="gallery-image" src="./assets/Data Analysis.jpeg" alt="Data Analysis">

                <a href="https://cognifyz.com/glow\_portfolio/data-analysis-using-python/" target="\_blank" rel="noreferrer">

                    <figcaption>Data Analysis with Python</figcaption>

                </a>

            </figure>

            <figure>

                <img id="gallery-image" src="./assets/Data Engineering.jpeg" alt="Data Engineering">

                <a href="https://cognifyz.com/glow\_portfolio/data-engineering/" target="\_blank" rel="noreferrer">

                    <figcaption>Data Engineering</figcaption>

                </a>

            </figure>

            <figure>

                <img id="gallery-image" src="./assets/Data Science.jpeg" alt="Data Science">

                <a href="https://cognifyz.com/glow\_portfolio/data-science/" target="\_blank" rel="noreferrer">

                    <figcaption>Data Science</figcaption>

                </a>

            </figure>

            <figure>

                <img id="gallery-image" src="./assets/Flutter.jpeg" alt="Flutter">

                <a href="https://cognifyz.com/glow\_portfolio/front-end-development/" target="\_blank" rel="noreferrer">

                    <figcaption>Flutter Development</figcaption>

                </a>

            </figure>

            <figure>

                <img id="gallery-image" src="./assets/Frontend Development.jpeg" alt="Frontend Development">

                <a href="https://cognifyz.com/glow\_portfolio/front-end-development/" target="\_blank" rel="noreferrer">

                    <figcaption>Frontend Development</figcaption>

                </a>

            </figure>

            <figure>

                <img id="gallery-image" src="./assets/Full Stack Development.png" alt="Full Stack Development">

                <a href="https://cognifyz.com/glow\_portfolio/full-stack-development/" target="\_blank" rel="noreferrer">

                    <figcaption>Full Stack Development</figcaption>

                </a>

            </figure>

            <figure>

                <img id="gallery-image" src="./assets/Java.jpeg" alt="Java Developer">

                <a href="https://cognifyz.com/glow\_portfolio/java-developer/" target="\_blank" rel="noreferrer">

                    <figcaption>Java Developer</figcaption>

                </a>

            </figure>

            <figure>

                <img id="gallery-image" src="./assets/Machine Learning.jpeg" alt="Machine Learning">

                <a href="https://cognifyz.com/glow\_portfolio/machine-learning/" target="\_blank" rel="noreferrer">

                    <figcaption>Machine Learning</figcaption>

                </a>

            </figure>

            <figure>

                <img id="gallery-image" src="./assets/Mobile App Development.jpeg" alt="Mobile App Development">

                <a href="https://cognifyz.com/glow\_portfolio/mobile-app-development/" target="\_blank" rel="noreferrer">

                    <figcaption>Mobile App Development</figcaption>

                </a>

            </figure>

            <figure>

                <img id="gallery-image" src="./assets/Python.jpeg" alt="Python Developer">

                <a href="https://cognifyz.com/glow\_portfolio/python-developer/" target="\_blank" rel="noreferrer">

                    <figcaption>Python Developer</figcaption>

                </a>

            </figure>

            <figure>

                <img id="gallery-image" src="./assets/Software Development.jpeg" alt="Software Development">

                <a href="https://cognifyz.com/glow\_portfolio/software-development/" target="\_blank" rel="noreferrer">

                    <figcaption>Software Development</figcaption>

                </a>

            </figure>

            <figure>

                <img id="gallery-image" src="./assets/ui ux design.jpeg" alt="UI/UX Design">

                <a href="https://cognifyz.com/glow\_portfolio/ui-ux-design/" target="\_blank" rel="noreferrer">

                    <figcaption>UI/UX Design</figcaption>

                </a>

            </figure>

            <figure>

                <img id="gallery-image" src="./assets/Web Development.jpeg" alt="Web Development">

                <a href="https://cognifyz.com/glow\_portfolio/web-development/" target="\_blank" rel="noreferrer">

                    <figcaption>Web Development</figcaption>

                </a>

            </figure>

        </div>

        <!-- Footer Section -->

        <footer id="footer">

            <p id="footer-head">Follow us :</p>

            <div id="social-links">

                <ul id="social-links-menu">

                    <li id="social-link"><a href="https://www.linkedin.com/company/cognifyz-techonologies/" target="\_blank"><i class="fa fa-linkedin"></i></a></li>

                    <li id="social-link"><a href="https://www.instagram.com/cognifyz\_tech/" target="\_blank"><i class="fa fa-instagram"></i></a></li>

                    <li id="social-link"><a href="https://www.youtube.com/channel/UCw3AbKUno4NQMWcPGFGOEZA" target="\_blank"><i class="fa fa-youtube"></i></a></li>

                    <li id="social-link"><a href="https://t.me/cognifyz\_technologies" target="\_blank"><i class="fa fa-telegram"></i></a></li>

                </ul>

            </div>

            <p id="author"><a href="https://github.com/dsaikiran01">Made with ❤️ by Dhruv</a></p>

        </footer>

    </div>

    <!-- JavaScript -->

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

</body>

</html>

**Styles.css**

@import url('https://fonts.googleapis.com/css2?family=Lato:ital,wght@0,100;0,300;0,400;0,700;0,900;1,100;1,300;1,400;1,700;1,900&display=swap');

:root {

    --main-background-color: #f3f7fa; /\* Softer bluish white for a fresher look \*/

    --main-text-color: #2b3a42; /\* Deep charcoal for better contrast \*/

    --navlinks-bg-color: #4caf91; /\* Muted teal for a modern feel \*/

    --navlinks-text-color: #ffffff; /\* White for text clarity \*/

    --navlinks-hover-bg-color: #388e72; /\* Rich teal for hover effect \*/

    --navlinks-hover-text-color: #ffffff; /\* White remains consistent \*/

    --hamburger-bars-bg-color: #4caf91; /\* Matching the navigation bar \*/

    --hamburger-bars-hover-bg-color: #388e72; /\* Same hover effect as nav links \*/

    --slideshow-text-color: #ffffff; /\* White for high contrast \*/

    --slideshow-bg-color: #1e88e5; /\* Calmer shade of blue \*/

    --gallery-bg-color: #fdfdfd; /\* Very light gray for subtle distinction \*/

    --gallery-img-text-bg-color: rgba(30, 136, 229, 0.6); /\* Transparent blue overlay for text \*/

    --gallery-img-text-color: #ffffff; /\* White for clarity \*/

    --footer-gradient-color-1: #d1d9e6; /\* Cool light blue-gray \*/

    --footer-gradient-color-2: #ffffff; /\* Soft white \*/

    --footer-text-color: #2b3a42; /\* Matches main text color \*/

    --footer-icons-color: #455a64; /\* Rich slate gray for icons \*/

    --footer-icons-hover-color-1: #ff7043; /\* Warm coral for hover \*/

    --footer-icons-hover-color-2: #1565c0; /\* Bold royal blue \*/

    --footer-icons-hover-color-3: #ffc107; /\* Bright amber \*/

    --author-text-color: #546e7a; /\* Balanced grayish-blue \*/

    --author-hover-color-1: #ffab40; /\* Vibrant amber \*/

    --author-hover-color-2: #03a9f4; /\* Bright sky blue \*/

    --author-hover-color-3: #ffeb3b; /\* Sunny yellow \*/

}

\* {

    box-sizing: border-box;

    font-family: 'Lato', Arial, sans-serif;

    list-style: none;

    text-decoration: none;

    color: var(--main-text-color);

}

html,

body {

    margin: 0;

}

li.fill {

    overflow: hidden;

    float: none;

    position: relative;

    width: auto;

    display: block;

}

/\* body \*/

/\* container \*/

#container {

    min-height: 800px;

    min-width: 484px;

    align-items: center;

    background-color: var(--main-background-color);

}

/\* navbar \*/

#header {

    height: 15vh;

    display: flex;

    justify-content: space-between;

}

#header>img {

    margin: 10px;

}

#navbar {

    width: 50%;

}

#nav-menu {

    display: flex;

    justify-content: space-evenly;

    margin: 2em auto;

}

#nav-menu .nav-link {

    min-height: 4vh;

    height: fit-content;

    width: 10vw;

    text-align: center;

    font-size: 20px;

    font-weight: 500;

    color: var(--navlinks-text-color);

    background-color: var(--navlinks-bg-color);

    border: 2px solid #fff;

    border-radius: 10px;

}

#nav-menu .nav-link:hover,

#nav-menu .nav-link:hover a {

    color: var(--navlinks-hover-text-color);

    background-color: var(--navlinks-hover-bg-color);

}

#hamburger {

    display: none;

}

.bar {

    display: block;

    width: 40px;

    height: 5px;

    margin: 5px auto;

    -webkit-transition: all 0.3s ease-in-out;

    transition: all 0.3s ease-in-out;

    background-color: var(--hamburger-bars-bg-color);

    border-radius: 10px;

}

/\* slideshow \*/

#slideshow-container {

    max-width: 1000px;

    height: 50vh;

    margin: 10px auto;

    border-radius: 5px;

    cursor: pointer;

}

.mySlides {

    display: none;

    z-index: 1;

}

.mySlides>img {

    height: 45vh;

    width: 100%;

}

#prev-button:hover,

#next-button:hover {

    background-color: rgba(0, 0, 0, 0.8);

}

.text {

    color: var(--slideshow-text-color);

    font-size: 15px;

    padding: 8px 12px;

    font-weight: 600;

    width: 100%;

    text-align: center;

    background-color: var(--slideshow-bg-color);

}

/\* for accessibility \*/

.numbertext {

    display: none;

}

#slide-bottom-dots {

    text-align: center;

}

.dot {

    cursor: pointer;

    height: 15px;

    width: 15px;

    margin: 0 2px;

    background-color: #bbb;

    border-radius: 50%;

    display: inline-block;

    transition: background-color 0.6s ease;

}

.active,

.dot:hover {

    background-color: #717171;

}

.fade {

    animation-name: fade;

    animation-duration: 1.5s;

}

@keyframes fade {

    from {

        opacity: .4

    }

    to {

        opacity: 1

    }

}

#modal-overlay {

    display: none;

    justify-content: center;

    align-items: center;

    position: fixed;

    top: 0;

    left: 0;

    width: 100%;

    height: 100%;

    background-color: rgba(0, 0, 0, 0.5);

    z-index: 1000;

}

#enlarge-image {

    background-color: #fff;

    padding: 20px;

    width: 80vw;

    height: 80vh;

    overflow: auto;

    border-radius: 10px;

    box-shadow: 0 0 10px rgba(0, 0, 0, 0.5);

}

#modal-image {

    width: 100%;

    height: 100%;

    display: block;

    margin: 0 auto;

}

/\* gallery \*/

#gallery {

    display: flex;

    flex-direction: row;

    flex-wrap: wrap;

    justify-content: center;

    align-items: center;

    max-width: 1400px;

    margin: 0 auto;

    padding: 20px 10px;

    background-color: var(--gallery-bg-color);

}

#gallery-image {

    width: 100%;

    max-width: 350px;

    height: 300px;

    object-fit: cover;

    border-radius: 10px;

    background-color: var(--gallery-image-bg-color);

}

#gallery-image::after {

    content: "";

    width: 350px;

}

#gallery-image:hover {

    cursor: pointer;

    transform: scale(0.95);

    transition: all 0.3s ease;

}

figure {

    background: #cce0ff;

    border-radius: 10px;

}

figcaption {

    height: 30px;

    font-size: 20px;

    color: var(--gallery-img-text-color);

    text-align: center;

    border-bottom-left-radius: 10px;

    border-bottom-right-radius: 10px;

    background-color: var(--gallery-img-text-bg-color);

}

/\* footer \*/

#footer {

    width: 100%;

    display: flex;

    justify-content: space-around;

    background: linear-gradient(90deg, var(--footer-gradient-color-1) 30%, var(--footer-gradient-color-2));

}

#footer-head {

    height: fit-content;

    font-size: 30px;

    font-weight: bold;

    color: var(--footer-text-color);

}

#social-links {

    width: 40%;

}

#social-links-menu {

    display: flex;

    justify-content: space-around;

}

#social-link {

    color: var(--footer-icons-color);

}

#social-link:hover {

    transform: scale(1.1);

    transition: transform 0.1s ease-in-out;

    background: linear-gradient(to left, var(--footer-icons-hover-color-1), var(--footer-icons-hover-color-2), var(--footer-icons-hover-color-3));

    -webkit-text-fill-color: transparent;

    -webkit-background-clip: text;

}

.fa {

    height: fit-content;

    font-size: 50px;

}

#author {

    height: fit-content;

    font-size: 25px;

    color: var(--author-text-color);

}

#author a {

    text-decoration: none;

}

#author:hover {

    background: linear-gradient(to right, var(--author-hover-color-1), var(--author-hover-color-2), var(--author-hover-color-3));

    -webkit-text-fill-color: transparent;

    -webkit-background-clip: text;

}

/\* responsive \*/

/\* footer responsive \*/

@media only screen and (max-width: 815px) {

    #header {

        display: flex;

        flex-direction: column;

        height: fit-content;

    }

    #header>img {

        width: 200px;

        -left: 30px;

    }

    #navbar {

        width: 100%;

        height: fit-content;

        display: flex;

        flex-direction: column-reverse;

    }

    #nav-menu {

        display: none;

        flex-direction: column;

        margin: 0;

        padding: 0;

    }

    #navbar .display {

        display: block;

    }

    #nav-menu .nav-link {

        width: 100%;

        height: 50px;

        text-align: center;

        font-size: 30px;

        font-weight: 400;

        border-radius: unset;

    }

    #hamburger {

        display: block;

        width: fit-content;

        position: absolute;

        top: 9vh;

        right: 10px;

    }

    #hamburger:hover .bar {

        background-color: var(--hamburger-bars-hover-bg-color);

    }

    #enlarge-image {

        width: 90vw;

    }

    #footer {

        width: 100%;

        height: 100vh;

        text-align: center;

        display: flex;

        flex-direction: column;

        justify-content: space-around;

    }

    #social-links {

        height: 60vh;

        width: fit-content;

        margin: 0 38%;

    }

    #social-links-menu {

        display: flex;

        flex-direction: column;

    }

    #social-link {

        margin: 10px 0;

    }

    .fa {

        font-size: 70px;

    }

}

**Script.js**

// Cache DOM elements

const hamburger = document.getElementById("hamburger");

const navMenu = document.querySelector("#nav-menu");

const navLinks = document.querySelectorAll(".nav-link");

const slides = document.querySelectorAll(".mySlides");

const modalOverlay = document.getElementById("modal-overlay");

const modal = document.getElementById("enlarge-image");

const modalImage = document.getElementById("modal-image");

const galleryImages = document.querySelectorAll("#gallery-image");

let slideIndex = 0;

// Mobile menu toggle

function mobileMenu() {

    navMenu.classList.toggle("display");

}

// Close menu when a nav link is clicked

function closeMenu() {

    navMenu.classList.remove("display");

}

// Slideshow function

function showSlides() {

    const slides = document.querySelectorAll(".mySlides");

    const dots = document.querySelectorAll(".dot");

    // Hide all slides

    slides.forEach(slide => slide.style.display = "none");

    slideIndex = (slideIndex + 1) > slides.length ? 1 : slideIndex + 1;

    // Remove active class from all dots

    dots.forEach(dot => dot.classList.remove("active"));

    // Show current slide and activate corresponding dot

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

    dots[slideIndex - 1].classList.add("active");

    // Automatically change slide every 2 seconds

    setTimeout(showSlides, 2000);

}

showSlides();

// Event listener for hamburger menu

hamburger.addEventListener("click", mobileMenu);

// Event listener for closing menu when clicking a nav link

navLinks.forEach(link => link.addEventListener("click", closeMenu));

// Event listeners for slideshow image click to open modal

[...slides, ...galleryImages].forEach(image => {

    image.addEventListener("click", (e) => {

        modalOverlay.style.display = "block";

        modalImage.src = e.target.src;

        modal.showModal();

    });

});

// Close modal when clicking outside the image

modalOverlay.addEventListener("click", () => {

    modal.close();

    modalOverlay.style.display = "none";

});

Task 2 (Create a landing page for a web developer internship with the following key elements):

* Clear headline: "Web Developer Internship Opportunities at Cognifyz Technologies"
* Brief introduction: Overview of the internship program and duration.
* Highlights: Benefits of the internship, such as real world experience and mentorship.
* Qualifications: Desired skills and technologies.
* Call-to-action (CTA) button: "Apply Now" or "Learn More."
* Contact information: Footer with relevant contact details for inquiries.

**Index.html**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <!-- fontawesome -->

    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">

    <!-- bootstrap css -->

    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet"

        integrity="sha384-QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhjY6hW+ALEwIH" crossorigin="anonymous">

    <!-- bulma css -->

    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bulma@1.0.0/css/bulma.min.css">

    <title>Web Development:- (Level-3 Task-2)</title>

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

</head>

<body>

    <div id="container" class="container-fluid  bg-dark">

        <div id="navbar" class="navbar fixed-top fs-5 fw-semi-bold d-flex flex-column has-background-grey"

            role="navigation" aria-label="main navigation">

            <a href="https://cognifyz.com/" target="\_blank" class="logo">

                <img src="./cognifyzLogo.png" alt="Cognifyz Technologies Logo" class="h-100 ms-3">

            </a>

            <ul class="nav justify-content-evenly buttons are-medium mt-5">

                <li class="nav-item">

                    <a class="nav-link button is-warning is-rounded is-focused is-responsive"

                        href="https://cognifyz.com/" target="\_blank">Home</a>

                </li>

                <li class="nav-item">

                    <a class="nav-link button is-warning  is-rounded is-focused is-responsive"

                        href="https://cognifyz.com/about-us/" target="\_blank">About Us</a>

                </li>

                <li class="nav-item">

                    <a class="nav-link button is-warning  is-rounded is-focused is-responsive"

                        href="https://cognifyz.com/contact-us/" target="\_blank">Contact Us</a>

                </li>

            </ul>

        </div>

        <div class="body">

            <p class="notification text-center has-text-grey-lighter fs-2 fw-semi-bold my-5">

                <i class="fa fa-quote-left"></i>

                Unlock Your Potential with Web Development Internships

                <i class="fa fa-quote-right"></i>

            </p>

            <div class="hero row container-xxl mx-auto my-5">

                <div class="description content has-background-darker h-100 fs-4 col-8 me-3 bg-dark">

                    <p>

                        The web development internship at Cognifyz offers aspiring developers a structured

                        environment to gain hands-on experience and enhance their skills effectively.

                    </p>

                    <p>

                        The program is divided into three tiers—Beginner, Intermediate, and Advanced—allowing participants to choose based on their skill level and interests.

                        It provides a comprehensive, hands-on experience, offering opportunities to work on real-world projects and solve practical challenges.

                    </p>

                    <p>

                        The internship offers a flexible duration tailored to the selected level and the participant's pace,

                        ensuring ample time for understanding concepts and making impactful contributions.

                    </p>

                </div>

                <div class="card col-4 h-100">

                    <div class="card-image">

                        <figure class="image">

                            <img src="https://www.shutterstock.com/image-photo/young-asian-programmer-working-office-600nw-2129787851.jpg"

                                alt="Intern image" />

                        </figure>

                    </div>

                    <div class="card-content">

                        <div class="content fs-4">

                            <i class="fa fa-quote-left"></i>

                            Evolve or stagnate, technology advances relentlessly, leaving no room for complacency.

                            <i class="fa fa-quote-right"></i>

                        </div>

                    </div>

                </div>

            </div>

            <div class="feedback row container-lg fs-5 mx-auto">

                <article class="message is-info highlights fs-5 col-4 h-100 ms-auto me-5">

                    <div class="message-header">

                        <p>HIGHLIGHTS</p>

                    </div>

                    <div class="message-body">

                        <ul>

                            <li>

                                <b class="bold-line">Practical Exposure:-</b>

                                Interns will engage in hands-on projects mirroring real-world situations,

                                enabling them to apply theoretical knowledge and build valuable practical skills.

                            </li>

                            <li>

                                <b class="bold-line">Guidance:-</b>

                                Interns will benefit from expert mentorship throughout the program, gaining insights, feedback,

                                and support from experienced professionals to overcome challenges and optimize their learning experience.

                            </li>

                            <li>

                                <b class="bold-line">Stipend Incentive:-</b>

                                Completing Level 3 increases the likelihood of earning a stipend, offering a tangible reward for commitment

                                and effort, motivating interns to excel and reach their objectives.

                            </li>

                        </ul>

                    </div>

                </article>

                <article class="message is-info qualifications fs-5 col-4 h-100 me-auto ms-5">

                    <div class="message-header">

                        <p>REQUIREMENTS</p>

                    </div>

                    <div class="message-body">

                        <ul>

                            <li>

                                <b class="bold-line">Technical Proficiency:</b> Interns should have a basic understanding

                                of web development fundamentals, including HTML, CSS, JavaScript, and relevant frameworks

                                such as React, Angular, or Vue.js.

                            </li>

                            <li>

                                <b class="bold-line">Problem-Solving Abilities:</b> Interns should possess strong analytical

                                thinking and problem-solving abilities, with a proactive approach to learning and adapting

                                to new challenges in web development.

                            </li>

                            <li>

                                <b class="bold-line">Communication Skills:</b> Interns should have strong verbal and written

                                communication skills to collaborate with team members, understand project requirements, and

                                effectively share ideas and solutions.

                            </li>

                        </ul>

                    </div>

                </article>

            </div>

            <div class="col my-5 text-center">

                <a class="btn btn-primary fs-5 mx-auto" href="https://cognifyz.com/glow\_portfolio/web-development/"

                    target="\_blank" role="button">

                    Apply Now &nbsp; <i class="fa fa-arrow-right"></i>

                </a>

            </div>

        </div>

        <footer class="has-background-grey-darker">

            <ul

                class="footer nav justify-content-center border-bottom grid gap-3 row-gap-3 has-background-grey-darker pb-5 mb-5 vh-20">

                <a href="https://www.linkedin.com/company/cognifyz-techonologies/" target="\_blank"

                    class="has-text-success-dark button is-large is-primary">

                    <button>

                        <span class="icon">

                            <i class="fa fa-linkedin"></i>

                        </span>

                        <span class="fs-6">LinkedIn</span>

                    </button>

                </a>

                <a href="https://www.instagram.com/cognifyz\_tech/" target="\_blank"

                    class="has-text-success-dark button is-large is-primary">

                    <button>

                        <span class="icon">

                            <i class="fa fa-instagram"></i>

                        </span>

                        <span class="fs-6">Instagram</span>

                    </button>

                </a>

                <a href="https://www.youtube.com/channel/UCw3AbKUno4NQMWcPGFGOEZA" target="\_blank"

                    class="has-text-success-dark button is-large is-primary">

                    <button>

                        <span class="icon">

                            <i class="fa fa-youtube"></i>

                        </span>

                        <span class="fs-6">YouTube</span>

                    </button>

                </a>

                <a href="https://t.me/cognifyz\_technologies" target="\_blank"

                    class="has-text-success-dark button is-large is-primary">

                    <button>

                        <span class="icon">

                            <i class="fa fa-telegram"></i>

                        </span>

                        <span class="fs-6">Telegram</span>

                    </button>

                </a>

                <a href="mailto:cognifyztechnologies@gmail.com" target="\_blank"

                    class="has-text-success-dark button is-large is-primary">

                    <button>

                        <span class="icon">

                            <i class="fa fa-envelope"></i>

                        </span>

                        <span class="fs-6">Mail</span>

                    </button>

                </a>

            </ul>

            <p class="fs-4 text-center pb-5">

                <a class="author text-muted has-text-white-ter" href="https://github.com/dsaikiran01" target="\_blank">

                    Made with &#10084; by Dhruv

                </a>

            </p>

        </footer>

    </div>

</body>

</html>

**Styles.css**

@import url('https://fonts.googleapis.com/css2?family=Lato:wght@100;300;400;700;900&display=swap');

/\* General Reset and Global Styling \*/

\* {

    box-sizing: border-box;

    margin: 0;

    padding: 0;

    font-family: 'Lato', Arial, sans-serif;

}

body {

    background-color: #181818;

    color: #f5f5f5;

    line-height: 1.6;

}

a {

    text-decoration: none;

    color: inherit;

}

a:hover {

    color: #ffc107;

}

#container {

    min-height: 100vh;

    display: flex;

    flex-direction: column;

    justify-content: space-between;

}

/\* Navbar Styling \*/

#navbar {

    height: auto;

    padding: 1rem 2rem;

    background-color: #212529;

    display: flex;

    flex-wrap: wrap;

    align-items: center;

    justify-content: space-between;

    border-bottom: 2px solid #ffc107;

}

.navbar-brand img {

    max-height: 50px;

}

.nav-link {

    font-weight: 500;

    margin: 0 10px;

    transition: color 0.3s;

}

.nav-link:hover {

    color: #ffc107;

}

/\* Hero Section \*/

.hero {

    display: flex;

    flex-wrap: wrap;

    align-items: center;

    justify-content: space-between;

    gap: 1rem;

    padding: 2rem 1rem;

    background-color: #343a40;

    border-radius: 10px;

}

.description {

    flex: 1;

    padding: 1rem;

    border: 2px solid #ffc107;

    border-radius: 10px;

    background-color: #212529;

}

.card {

    flex: 1;

    max-width: 400px;

    border: none;

    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);

    border-radius: 10px;

    overflow: hidden;

}

.card img {

    width: 100%;

    height: auto;

    object-fit: cover;

}

.card-content {

    padding: 1rem;

    background-color: #343a40;

}

.card-content p {

    color: #ffc107;

    font-weight: bold;

}

/\* Feedback Section \*/

.feedback {

    display: flex;

    flex-wrap: wrap;

    justify-content: space-between;

    gap: 2rem;

    margin: 3rem 0;

}

.message {

    flex: 1;

    min-width: 280px;

    padding: 1.5rem;

    border-radius: 10px;

    border: 2px solid #ffc107;

    background-color: #212529;

    color: #f5f5f5;

}

.message-header {

    font-weight: bold;

    margin-bottom: 1rem;

    color: #ffc107;

}

.message ul {

    list-style-type: none;

}

.message li {

    margin-bottom: 0.5rem;

}

.bold-line {

    text-decoration: underline;

}

/\* Apply Button \*/

.btn-primary {

    background-color: #ffc107;

    border: none;

    color: #212529;

    font-size: 1.2rem;

    padding: 0.75rem 1.5rem;

    border-radius: 50px;

    transition: background-color 0.3s, transform 0.2s;

}

.btn-primary:hover {

    background-color: #e0a800;

    transform: scale(1.05);

}

/\* Footer Section \*/

footer {

    padding: 2rem 1rem;

    background-color: #212529;

    color: #f5f5f5;

    border-top: 2px solid #ffc107;

    text-align: center;

}

footer a {

    display: inline-block;

    margin: 0 1rem;

    color: #ffc107;

    font-size: 1.5rem;

    transition: color 0.3s;

}

footer a:hover {

    color: #e0a800;

}

footer .author {

    margin-top: 1rem;

    font-size: 1rem;

    color: #f5f5f5;

}

footer .author:hover {

    text-decoration: underline;

}

/\* Media Queries for Responsiveness \*/

@media (max-width: 768px) {

    #navbar {

        flex-direction: column;

        text-align: center;

    }

    .hero {

        flex-direction: column;

    }

    .card {

        margin-top: 1rem;

    }

    .feedback {

        flex-direction: column;

    }

# Conclusions and Future Scope

*Conclusions and future scope for a web development internship report can vary based on the specific experiences and learning outcomes during the internship.*

* ***Conclusions***

**Hands-on Experience:** The internship provided practical exposure to various aspects of web development, including frontend, backend, databases, and frameworks. It helped in gaining a deeper understanding of real-world applications.

**Skill Enhancement:** Through tasks and projects assigned during the internship, new skills were acquired or existing skills were refined. These could include proficiency in programming languages (HTML, CSS, JavaScript, etc.), frameworks (React, Angular, Node.js, etc.), or database management (SQL, MongoDB, etc.).

**Collaboration and Communication:** Working in a team environment fostered collaboration skills, including effective communication, teamwork, and understanding the importance of collective efforts in achieving project goals.

**Problem-Solving:** Encountering challenges and solving issues while working on web development projects improved problem-solving abilities and critical thinking skills.

**Industry Insights:** The internship provided valuable insights into industry trends, best practices, and emerging technologies within the web development field.

* ***Future Scope***

**Continued Learning:** The rapidly evolving nature of technology necessitates continuous learning. Future prospects involve staying updated with the latest advancements, tools, and frameworks in web development through online courses, workshops, or self-study.

**Specialization and Depth:** Exploring specific areas of interest within web development (e.g., frontend, backend, full-stack development, UI/UX design) and acquiring in-depth knowledge and expertise in those domains could be a part of future endeavours.

**Portfolio Development**: Building a strong portfolio showcasing the skills, projects, and contributions made during the internship and beyond is crucial for career advancement. Developing personal projects or contributing to open-source projects can enhance visibility to potential employers.

**Networking and Professional Development**: Engaging in networking opportunities, attending tech meetups, conferences, and connecting with professionals in the field can provide insights, mentorship, and potential career prospects.

**Adaptation to Emerging Technologies**: Exploring emerging technologies such as AI integration, Progressive Web Apps (PWAs), voice-controlled interfaces, etc., and understanding their potential applications in web development could be a future area of focus.

**Entrepreneurial Ventures**: Utilizing the gained skills and knowledge to create innovative solutions, starting a freelance career, or launching entrepreneurial ventures in web-based products or services.

# BIBLIOGRAPHY

*The following books and online resources are referred during the analysis and execution phase of the project!*

### Books:

1. Duckett, Jon. "HTML and CSS: Design and Build Websites." Wiley, 2011.
2. Flanagan, David. "JavaScript: The Definitive Guide." O'Reilly Media, 2021.
3. Wilson, Eric T. "Designing with Web Standards." New Riders, 2007.
4. Freeman, Eric, and Elisabeth Robson. "Head First JavaScript Programming." O'Reilly Media, 2014.

### Online Resources:

1. MDN Web Docs - <https://developer.mozilla.org/>
2. W3Schools - <https://www.w3schools.com/>
3. CSS-Tricks - <https://css-tricks.com/>
4. Stack Overflow - <https://stackoverflow.com/>