PORTFOLIO PROJECT REPORT

Project Title: Portfolio Project

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GitHub Repository: PortfolioProject

ABSTRACT

In today's digital world, having a **personal portfolio website** is a great way to showcase skills, achievements, and projects. This report covers the creation of a **Portfolio Project**, a website built using **HTML, CSS, and JavaScript** to highlight professional work in an engaging and interactive way.

The website includes different sections such as **an introduction, an about page, skills overview, project highlights, a resume download option, and a contact form**. It is designed to be **visually appealing, easy to navigate, and mobile-friendly** so that it looks good on any device. Special attention was given to **responsive design** to ensure a seamless experience for visitors.

This report details the **entire development process**, including **coding techniques, design choices, and testing strategies**. It also discusses the **challenges faced** during the project, such as layout adjustments and performance optimization, along with the solutions implemented. Additionally, there is space to include **screenshots and code snippets**, making it easier to understand how the project was built.

By creating this portfolio, the goal was to establish a **strong online presence** that can help with job opportunities and professional growth. This project is not just about coding but also about **creativity, problem-solving, and design thinking**.

Beyond just a static display, this portfolio project also incorporates **interactive elements and animations** to enhance user engagement. Future improvements may include **adding backend support, integrating a blog section, and enhancing accessibility features** to make it even more user-friendly and dynamic. The overall objective is to create a **professional, functional, and aesthetically pleasing** personal portfolio that stands out in the competitive digital space.

INTRODUCTION

Purpose :

The purpose of this project is to create an interactive and visually appealing portfolio website that serves as an online resume. In today's digital world, having an online presence is crucial for professionals, especially in the tech industry. This portfolio website provides a platform to showcase skills, projects, and achievements in an organized manner. It allows potential employers, recruiters, and clients to quickly access information about the developer's expertise and experience. Unlike traditional resumes, an online portfolio is dynamic, enabling continuous updates and improvements. Additionally, the portfolio helps establish a personal brand and demonstrates technical proficiency in web development. By integrating interactive elements, smooth navigation, and responsive design, this project aims to leave a lasting impression on visitors.

Objectives :

The main objective of this project is to develop a personal portfolio website that effectively showcases the developer's professional journey. The website should present key information, including skills, experience, projects, and contact details, in a visually appealing and userfriendly manner. A crucial objective is to ensure responsiveness, making the site fully functional on desktops, tablets, and mobile devices. Another goal is to incorporate interactive elements like smooth animations, hover effects, and transitions to enhance the user experience. By achieving these objectives, the portfolio website will serve as an effective tool for personal branding, networking, and job-seeking in the competitive tech industry.

Scope :

The scope of this project includes the development of a fully functional and responsive portfolio website with multiple sections. The website consists of essential pages, including Home, About, Projects, and Contact, ensuring a complete overview of the developer's profile. The Home page provides a brief introduction and highlights key skills, while the About page gives detailed information about education, experience, and achievements. The Projects section showcases completed works, providing descriptions.. The Contact page includes a form for inquiries and social media links to enable professional networking. The project also focuses on UI/UX design, using modern web development technologies like HTML, CSS, and JavaScript to ensure smooth navigation and engagement.

HARDWARE AND SOFTWARE REQUIREMENTS

Software Requirements

Frontend:

- **HTML**: Used for structuring the content and layout of the web pages.
- **CSS**: Styles the visual elements and ensures responsiveness across devices.
- **JavaScript**: Adds interactivity and dynamic behavior to enhance user experience.

Deployment:

- GitHub Pages: **GitHub Pages** is a free hosting service that allows you to publish static websites directly from a GitHub repository.

Backend:

- **MySQL**: Manages the database for storing user data, results, and other information.

Development Environment:

- **Visual Studio Code (VS Code)**: A code editor with support for multiple languages, used to develop the application.

Hardware Requirements

Client-Side (User Devices)

- **Processor (CPU)**: A minimum of a dual-core processor (2.0 GHz) is required, with a recommended quad-core processor (2.5 GHz or higher) for better performance.
- **Memory (RAM)**: 4 GB RAM is the minimum, with 8 GB RAM recommended for smoother multitasking and performance.

- **Storage**: 500 MB of free disk space is the minimum, with 1 GB or an SSD recommended for faster data access and load times.
- **Network Connectivity**: A stable internet connection with a minimum speed of 5 Mbps, and 10 Mbps recommended for seamless browsing and test-taking.

Server-Side (Backend Deployment)

- **Processor (CPU)**: A multi-core processor with at least 4 cores (2.5 GHz) is the minimum requirement, while 8 cores (3.0 GHz or higher) are recommended for handling concurrent requests.
- **Memory (RAM)**: 8 GB RAM is the minimum, with 16 GB RAM recommended for handling peak loads and multiple user requests efficiently.
- **Storage**: A minimum of 1 TB HDD is required, while 1 TB SSD storage is recommended for improved performance during database operations.

Project Setup & Installation

1. Clone the repository:

git clone https://github.com/JaisantoshiShanbhag/PortfolioProject.git

2. Navigate to the project folder:

cd PortfolioProject

3. Open index.html in a browser.

MODULES

Homepage: The homepage is the first page users see when they visit the portfolio. It includes a navigation bar that provides links to other sections of the website. The main highlight is a welcome message that briefly introduces the developer. The homepage sets the tone for the rest of the website by offering a visually appealing layout. CSS is used for formatting, ensuring that the design remains professional and attractive. The homepage also features a call-to-action (CTA) section that directs users to explore projects or contact the developer. A clean and structured design enhances user engagement.

About Page: The About page provides a detailed introduction to the developer. It includes information about educational background, work experience, certifications, and personal interests. This section is structured with headings and paragraphs to make the content easy to read. Additionally, a list of technical skills and tools used by the developer is presented in a well-organized manner. The page aims to provide potential employers or clients with a quick understanding of the developer's expertise and career journey. The design ensures readability, and media elements such as profile images or icons can be incorporated for visual appeal.

Projects Page: The Projects page is one of the most important sections of the portfolio, showcasing completed and ongoing projects. Each project is listed with a **title, description, technologies used, and links to GitHub or live demos**. This section allows visitors to explore the developer's work and understand the thought process behind each project. A grid or cardbased layout enhances readability and aesthetics. Additionally, **images or screenshots** of the projects help visitors visualize the results. The page is designed to be dynamic, with hover effects and animations that improve user interaction and engagement.

Contact Page Explanation

The Contact page allows visitors to communicate with the developer via a **contact form**. This form typically includes fields for **name, email, and message**, ensuring a structured way to gather inquiries. JavaScript is used for **form validation**, preventing submission errors and enhancing the user experience.

CODE SNIPPET:

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="stylesheet" href="style.css">
   <link href='https://unpkg.com/boxicons@2.1.4/css/boxicons.min.css' rel='stylesheet'>
   <script type="text/javascript"
src="https://cdn.jsdelivr.net/npm/@emailjs/browser@4/dist/email.min.js">
</script>
   <script type="text/javascript">
   (function(){
emailjs.init({
      publicKey: "gzf3AUCwzOuFD9VXK",
    });
   })();
   </script>
   <title>My Portfolio</title>
</head>
<body>
<!-- Header -->
<header class="header">
                <a href="#" class="logo"><span
        class="typewriter">Portfolio.</span><span class="animate" style="--
i:1;"></span></a>
```

```
  <div class="bx bx-menu" id="menu-icon"><span class="animate" style="-i:2;"></span></div>


  <nav class="navbar">
    <a href="#home" class="active">Home</a>
    <a href="#about">About</a>
    <a href="#education">Education</a>
    <a href="#skills">Skills</a>
    <a href="#project">Projects</a>
    <a href="#contact">Contact</a>

    <span class="active-nav"></span>
    <span class="animate" style="--i:2;"></span>
  </nav>
</header>

<!-- Home -->
<section class="home show-animate" id="home">
  <div class="main">
    <div class="home-content">
      <h1>Hi, I'm <span>Jaisantoshi Shanbhag</span><span class="animate" style="-i:2;"></span></h1>
      <div class="text-animate">
        <h3>Frontend Developer</h3>
        <span class="animate" style="--i:3;"></span>
      </div>
      <p>A passionate and dedicated learner eager to apply my skills in Web Design and Development while contributing to a professional organization with sincerity and commitment.</p>
      <span class="animate" style="--i:4;"></span>
      <div class="btn-box">
```

```
            <a href="resume.html" class="btn">Resume</a>
            <span class="animate" style="--i:5;"></span>
        </div>
    </div>

    <div class="right-image-container fade-in">
        <img src="images/mypic.jpg" alt="Profile Picture">
    </div>
  </div>

  <div class="social">
    <a href="https://www.linkedin.com/in/jaisantoshi-shanbhag-3032732b9/"><i class='bx bxl-linkedin'></i></a>
    <a href="https://www.instagram.com/graceful_girl_45/"><i class='bx bxlinstagram'></i></a>
    <a href="https://github.com/JaisantoshiShanbhag/"><i class='bx bxl-github'></i></a>
    <span class="animate" style="--i:6;"></span>
  </div>
</section>

<!-- about section -->
<section class="about" id="about">
    <h2 class="heading">About <span>Me</span><span class="animate scroll" style="-i:1;"></span></h2>

    <div class="about-img">
        <img src="./images/about.jpg" alt="">
        <span class="circle-spin"></span>
        <span class="animate scroll" style="--i:2;"></span>
    </div>
```

```
<div class="about-content">

<h3>Hi there! Glad to see you here.<span class="animate scroll" style="-i:3;"></span></h3>

<p><strong>Hello! Jaisantoshi here.| Web Enthusiast , </strong><br>

A fresher with a strong passion for web development and a keen interest in both frontend and backend technologies. Skilled in HTML, CSS, JavaScript, and PHP with MySQL, I love building interactive and user-friendly websites. As a quick learner and problem solver, I am eager to apply my knowledge, enhance my coding skills, and contribute to meaningful projects. I am looking for an opportunity where I can grow, learn, and collaborate in a dynamic environment while delivering impactful solutions!</p>

<span class="animate scroll" style="--i:4;"></span> </p>

</div>

</section>


<!-- education section -->

<section class="education" id="education">

<h2 class="heading">My <span>Journey</span><span class="animate scroll" style="-i:1;"></span></h2>


<div class="education-row">

<div class="education-column">

<h3 class="title">Education<span class="animate scroll" style="-i:2;"></span></h3>


<div class="education-box">

<div class="education-content">

<div class="content">

<div class="year"><i class='bx bxs-calendar'></i> 2023 - 2025</div>

<h3>Master of Computer Application - Bengaluru North University</h3>

<p>Institution : Kristu Jayanti College Autonomous Bengaluru</p>

<p>Percentage : 76.6%</p>

</div>
```

```
            </div>
            <div class="education-content">
              <div class="content">
                <div class="year"><i class='bx bxs-calendar'></i> 2020 - 2023</div>
                <h3>Bachelor of Computer Application - Karnatak University Dharwad</h3>
                <p>Kamadhenu BCA College Karwar.</p>
                <p>Percentage : 84.2%</p>
              </div>
            </div>

            <div class="education-content">
              <div class="content">
                <div class="year"><i class='bx bxs-calendar'></i> 2018 - 2020</div>
                <h3>PUC [12th] - Pre University Board</h3>
                <p>Gokhale centanary College Ankola.</p>
                <p>Percentage : 86.3%</p>
              </div>
            </div>
            <div class="education-content">
              <div class="content">
                <div class="year"><i class='bx bxs-calendar'></i> 2018 - 2020</div>
                <h3>SSLC [10th] - </h3>
                <p>Govt High School Ankola.</p>
                <p>Percentage : 85.6%</p>
              </div>
            </div>

            <span class="animate scroll" style="--i:3;"></span>
          </div>
```

```
        </div>
            <span class="animate scroll" style="--i:6;"></span>
          </div>
        </div>
      </div>
</section>

<!-- skills section -->
<section class="skills" id="skills">
    <h2 class="heading">My <span>Skills</span><span class="animate scroll" style="-i:1;"></span></h2>

    <div class="skills-row">
      <div class="skills-column">
          <h3 class="title">Coding Skills<span class="animate scroll" style="-i:2;"></span></h3>

          <div class="skills-box">
            <div class="skills-content">
              <div class="progress">
                <h3>HTML <span>90%</span></h3>
                <div class="bar"><span></span></div>
              </div>

              <div class="progress">
                <h3>CSS <span>70%</span></h3>
                <div class="bar"><span></span></div>
              </div>

              <div class="progress">
```

```
                    <h3>JavaScript <span>50%</span></h3>
                    <div class="bar"><span></span></div>
                </div>

                <div class="progress">
                    <h3>Python <span>60%</span></h3>
                    <div class="bar"><span></span></div>
                </div>
            </div>

            <span class="animate scroll" style="--i:3;"></span>
        </div>
    </div>
</section>
<!--Projects Section-->
<section class="project" id="project">
    <div class="project-row">
    <div class="project-column">
        <h2 class="heading">My <span>Projects</span><span class="animate scroll" style="-i:1;"></span></h2>
        <div class="project-container">
            <div class="project-card1" style="--i: 1;">
                <h3>Aptitude Test Web Application</h3>
                <h4>MCA [3RD SEM]</h4>
                <img src="./images/book-solid.svg" alt="ev">
                <p>Tools & Technologies</p>
                <input id="btn" type="button" value="HTML">
                <input id="btn" type="button" value="CSS">
                <input id="btn" type="button" value="JavaScript">
```

```
                <input id="btn" type="button" value="PHP">
                <input id="btn" type="button" value="VS CODE">
                <input id="btn" type="button" value="MYSQL">
            </div>
            <div class="project-card2" style="--i: 0;">
<h3>EV Charge Booking Website</h3>
                <h4>MCA [2ND SEM]</h4>
               <img src="./images/charging-station-solid.svg" alt="ev">
                <p>Tools & Technologies</p>
                <input id="btn" type="button" value="HTML">
                <input id="btn" type="button" value="CSS">
                <input id="btn" type="button" value="JavaScript">
                <input id="btn" type="button" value="PHP">
                <input id="btn" type="button" value="VS CODE">
                <input id="btn" type="button" value="MYSQL">
            </div>          </div>
        </div>
</section>
<!-- contact section --><section class="contact" id="contact">
      <h2 class="heading">Contact <span>Me</span><span class="animate scroll" style="-i:1;"></span></h2>
      <form id="contactform" action="">
         <div class="input-box">
            <div class="input-field">
               <input id="name" type="text" placeholder="Full Name" required>
               <span class="focus"></span>
            </div>
            <div class="input-field">
               <input id="email" type="text" placeholder="Email" required>
               <span class="focus"></span>
```

```
            </div>
 <span class="animate scroll" style="--i:3;"></span>
          </div>
          <div class="input-box">
             <div class="input-field">
                <input id="mobile" type="number" placeholder="Mobile Number" required>
                <span class="focus"></span>
             </div>
             <div class="input-field">
                <input id="subject" type="text" placeholder="Email Subject" required>
                <span class="focus"></span>
             </div>
 <span class="animate scroll" style="--i:5;"></span>
          </div>
<div class="textarea-field">
             <textarea name="message" id="message" cols="30" rows="10" placeholder="Your
Message" required></textarea>
             <span class="focus"></span>

            <span class="animate scroll" style="--i:7;"></span>
          </div>
   <div class="btn-box btns">
             <button type="submit" class="btn" >Submit</button>
<span class="animate scroll" style="--i:9;"></span>
          </div>
       </form>
</section> <script>
document.getElementById("contactform").addEventListener("submit", function(event) {
event.preventDefault(); // Prevents the form from refreshing the page         alert("Your
```

```
message is successfully sent!");        this.reset(); // Optional: Resets the form fields after
submission
   });
</script>
<!-- footer-->
<footer class="footer">
      <div class="footer-text">
         <p>Let's Connect!</p>

         <span class="animate scroll" style="--i:1;"></span>
      </div>
<div class="footer-iconTop">
         <a href="#"><i class='bx bx-up-arrow-alt'></i></a>

         <span class="animate scroll" style="--i:3;"></span>
      </div>
</footer>
<!-- JavaScript for Animations -->
<script>          document.addEventListener("DOMContentLoaded",
function () {
      // Typewriter effect for Portfolio
      const logo = document.querySelector(".logo");
      const  text  =  "Portfolio.";
let index = 0;

      function typeWriter() {          logo.innerHTML = text.substring(0, index) +
'<span class="cursor">|</span>';          index = (index + 1) % (text.length + 1);
setTimeout(typeWriter, 200);
```

```
    }
typeWriter();

    // Fade-in effect for the image                const imgContainer =
document.querySelector(".right-image-container");

    const observer = new IntersectionObserver((entries) => {
entries.forEach(entry => {              if (entry.isIntersecting) {
imgContainer.classList.add("show");
            }                          else                          {
imgContainer.classList.remove("show");
            }
          });
        }, { threshold: 0.5 });

        observer.observe(imgContainer);
        });
</script>
<!-- <script src="script.js"></script> -->
<script src="https://cdnjs.cloudflare.com/ajax/libs/firebase/7.14.1-0/firebase.js"></script>
   <script src="./firebasedb.js"></script>
</body>
</html>
```

TESTING

Testing is an essential phase in the development of the **Portfolio Website** to ensure that it functions as expected across different devices and browsers. The testing process includes multiple levels such as **unit testing, integration testing, system testing, user acceptance testing (UAT), performance testing, security testing, regression testing, and compatibility testing**. Below is an overview of the different types of testing involved:

1. Unit Testing

Unit testing involves testing individual components of the website to verify that each section works correctly before integration. For the **Portfolio Website**, this includes testing different modules such as the **homepage, about section, projects page, and contact form**. The goal is to ensure that each feature loads properly and functions without errors. For example, testing the **contact form** ensures that users can enter their details and submit the form correctly, while testing the **navigation menu** ensures that all links direct users to the appropriate sections.

2. Integration Testing

Integration testing ensures that all components of the website work together as expected. In the **Portfolio Website**, this involves checking whether the **navigation menu properly links to other pages**, verifying that **contact form submissions reach the intended recipient**, and ensuring that **project links redirect users to external pages like GitHub or live demos**. Additionally, testing ensures that **JavaScript animations and CSS styling** work cohesively without breaking the design.

3. System Testing

System testing evaluates the entire website as a whole to ensure that all features function seamlessly together. This includes testing:

- The **homepage layout and responsiveness**
- The **about page content and images**

- The **projects page with clickable links**
- The **contact page form submission and email notifications**
  By simulating real user interactions, system testing ensures that all sections of the website operate correctly and provide a smooth browsing experience.

4. User Acceptance Testing (UAT)

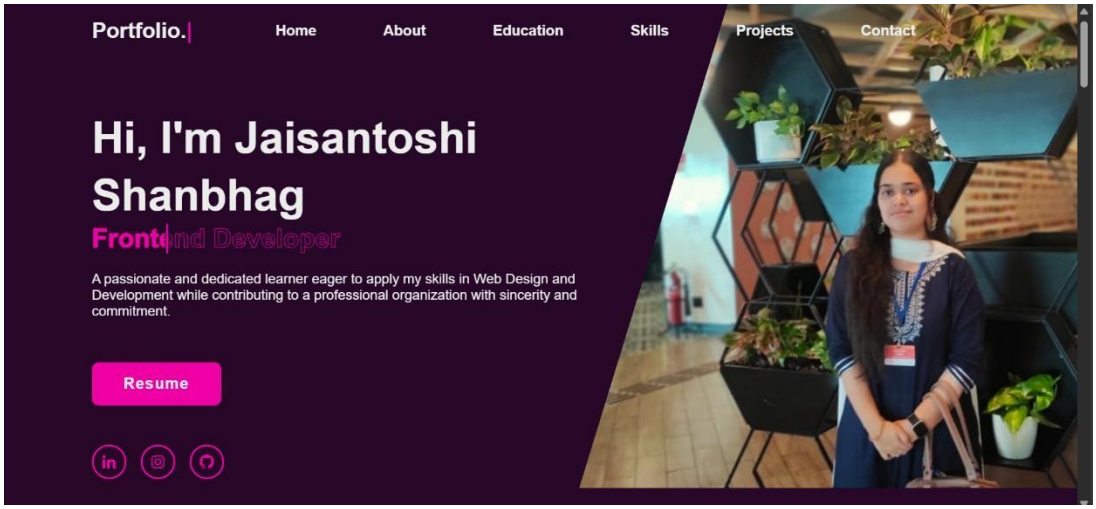
UAT is performed by **real users** (such as peers, clients, or hiring managers) to validate the website based on usability and functionality. Users test the website on different devices and provide feedback on **layout, ease of navigation, readability, and responsiveness**. In this phase, testers might suggest improvements like **better text alignment, enhanced readability, or optimized image loading**. This ensures that the **Portfolio Website** meets expectations and delivers a professional and user-friendly experience.

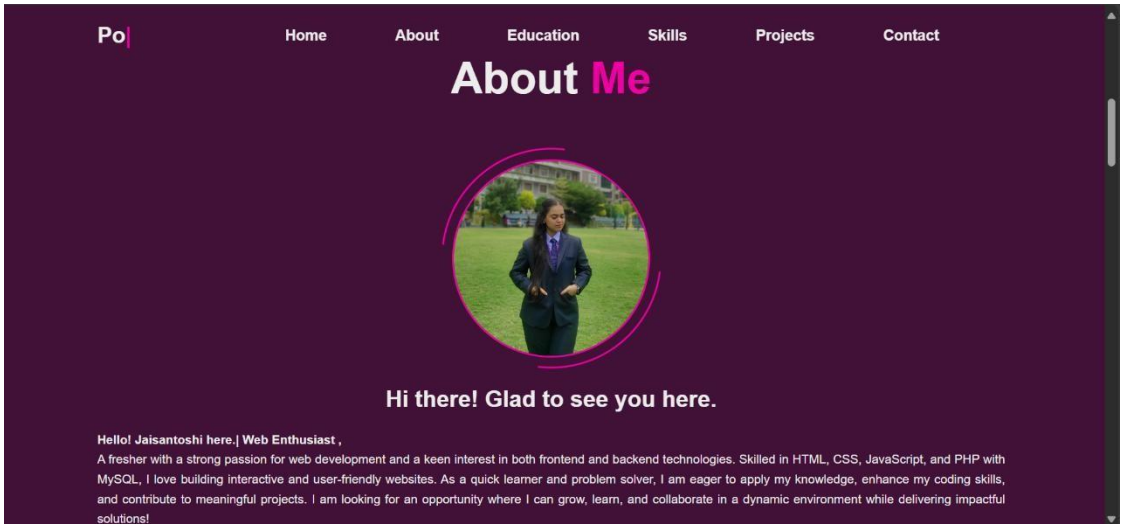
5. Performance Testing

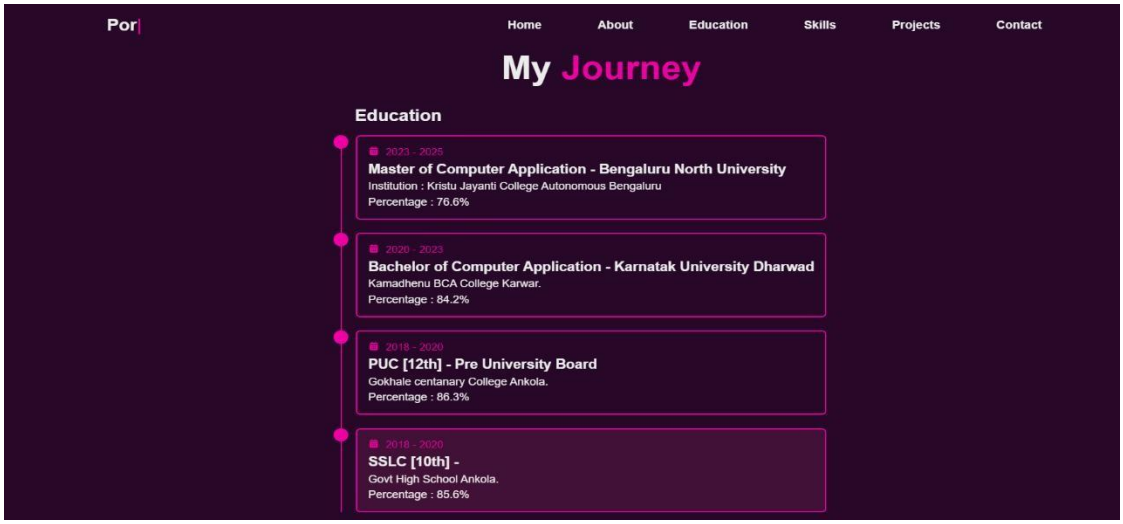
Performance testing evaluates how the **Portfolio Website** performs under different conditions. It includes:

- **Load Testing:** Checking if the website loads quickly when multiple users visit at the same time.
- **Stress Testing:** Measuring how the site handles large image files and multiple animations.
- **Page Speed Optimization:** Ensuring fast load times by minimizing CSS, JavaScript, and images using tools like **Google PageSpeed Insights**.
  By conducting performance testing, the website remains **fast, efficient, and userfriendly**, reducing bounce rates.

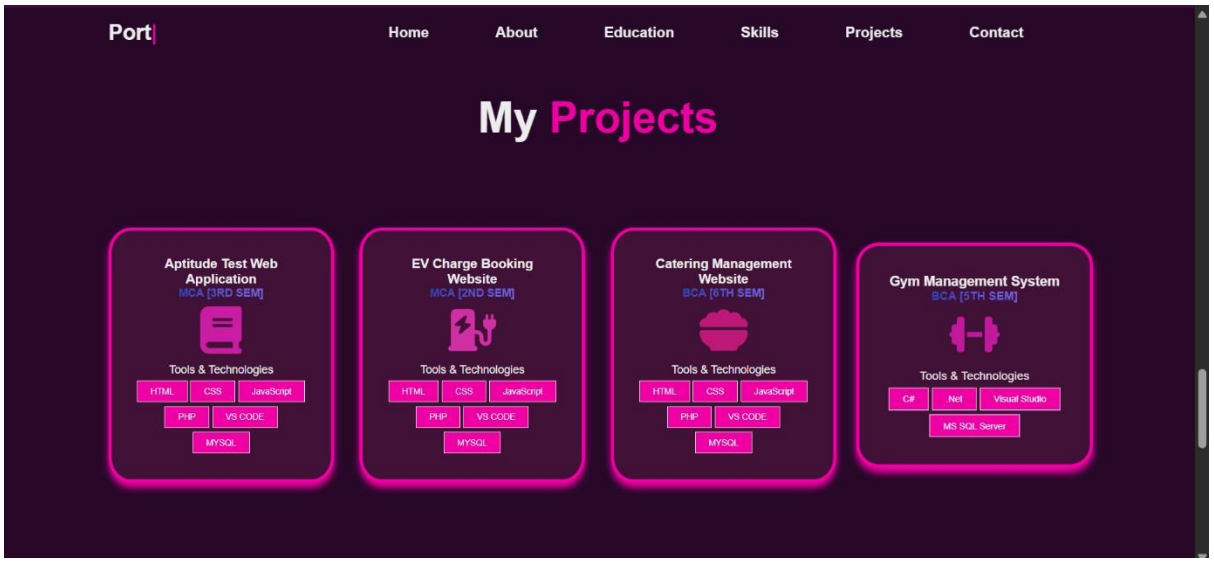
SCREENSHOTS:

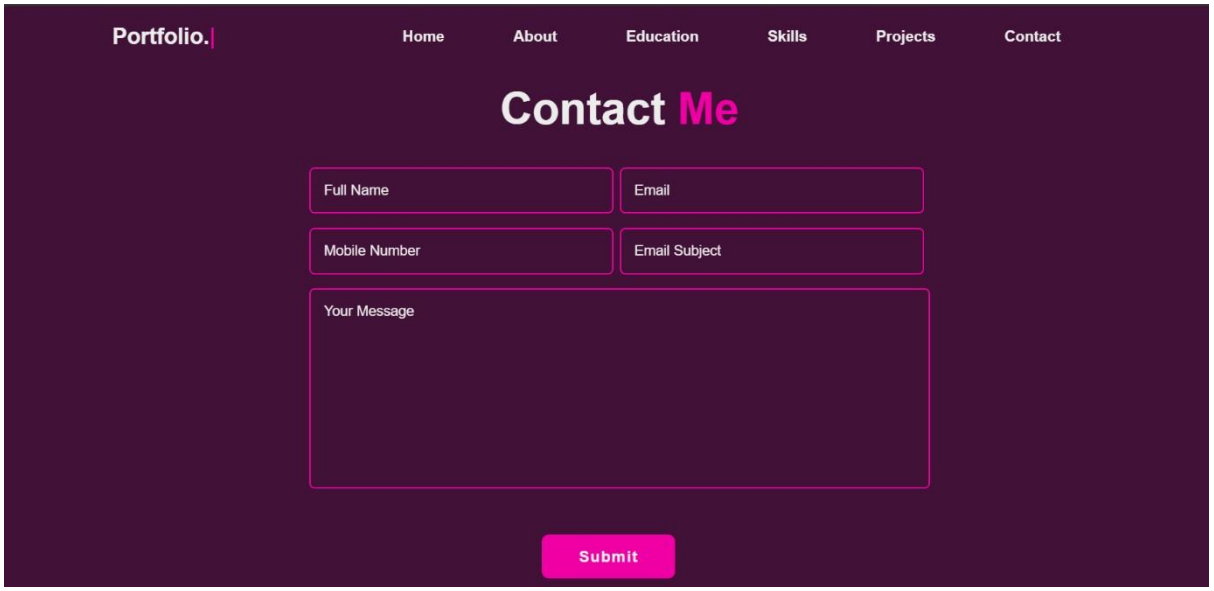







Portfol
Home
About
Education
Skills
Projects
Contact
My Skills
Coding Skills
HTML
90%
CSS
70%
JavaScript
50%
Python
60%


Port
Home
About
Education
Skills
Projects
Contact
My Projects
Aptitude Test Web Application
MCA [3RD SEM]
Tools & Technologies
HTML
CSS
JavaScript
PHP
VS CODE
MYSQL
EV Charge Booking Website
MCA [2ND SEM]
Tools & Technologies
HTML
CSS
JavaScript
PHP
VS CODE
MYSQL
Catering Management Website
BCA [6TH SEM]
Tools & Technologies
HTML
CSS
JavaScript
PHP
VS CODE
MYSQL
Gym Management System
BCA [5TH SEM]
Tools & Technologies
C#
Net
Visual Studio
MS SQL Server


Portfolio.
Home
About
Education
Skills
Projects
Contact
Contact Me
Full Name
Email
Mobile Number
Email Subject
Your Message
Submit

CONCLUSION

The portfolio project successfully showcases technical skills, achievements, and projects, serving as a digital resume for potential employers and collaborators. By integrating **responsive design**, the website adapts seamlessly to different screen sizes, ensuring accessibility on desktops, tablets, and mobile devices. The use of **interactive elements** such as animations, hover effects, and dynamic content enhances user engagement and provides an intuitive browsing experience.

Modern **UI/UX techniques** contribute to the website's visual appeal, professionalism, and ease of navigation, creating a lasting impression on visitors. The inclusion of project showcases, skills sections, and contact information ensures that the portfolio effectively communicates expertise and career aspirations.

The development process involved **structured coding practices, optimization for performance, and best security practices** to enhance website reliability and efficiency. Hosting the portfolio on a platform like **GitHub Pages** or a custom domain further strengthens its accessibility and reach.

Overall, the project serves as a **testament to continuous learning and growth**, reinforcing both technical and creative abilities in web development.

References & Acknowledgments

- **W3Schools** – A fundamental resource for learning and implementing **HTML, CSS, and JavaScript**. It provided extensive tutorials, documentation, and examples that guided the development of structured and well-styled web pages.
- **GitHub Docs** – Essential for understanding **repository setup, version control with Git, and deployment strategies**. It assisted in managing code efficiently, tracking changes, and deploying the portfolio using **GitHub Pages or alternative hosting services**.
- **MDN Web Docs** – Referenced for in-depth knowledge of web technologies, including **CSS Flexbox, Grid, JavaScript ES6 features, and responsive web design principles**.

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