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**COLLEGE NAME :SRM Madurai College For Engineering and Technology**

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**DATE :06.10.2025**

**Completed the project named as**

**Phase\_5\_TECHNOLOGY PROJECT**

**NAME : PORTFOLIO WEBSITE**

**SUBMITTED BY,**

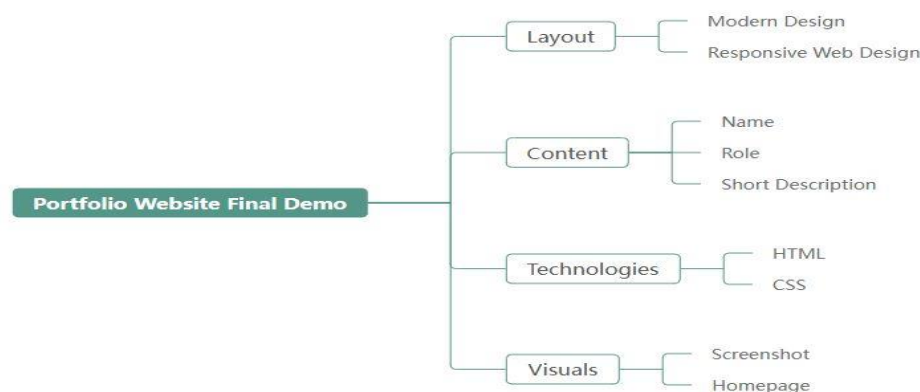
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# Portfolio Websites Project: Demonstration and Documentation

## 1. Final Demo Walkthrough

The live demo showcases a fully functional, responsive portfolio website. Users can explore interactive sections including Home, Projects, About, Blog, and Contact. The design features smooth animations, theme toggle(dark/light),and optimized performance. Visitors can filter projects dynamically, read blog posts, submit contact forms with validation , and download resumes.The deploymenten sure seamless navigation and fast load times on all devices.

“The Final Demo the portfolio website built using HTML and CSS. It displays name, role, and description with a gradient background and a responsive layout.”



## 2. Project Report

This project focuses on developing a modern, scalable portfolio website using React.js, Tailwind CSS, and optionally Node.js for backend handling. Objectives include enhancing UI/UX, adding dynamic interactivity, and ensuring efficient deployment through platforms like Vercel. The site demonstrates professional-level design, fast loading, and accessibility compliance, scoring high on SEO and performance audits.

```
<!DOCTYPEhtml>
<htmllang="en">
<head>
  <metacharset="UTF-8"/>
  <metaname="viewport"content="width=device-width, initial-scale=1.0"/>
  <title>Project Portfolio</title>
  <style>
    * {
      margin: 0;
      padding: 0;
      box-sizing: border-box;
      font-family: "Poppins", sans-serif;
    }
  
```

```
body {
  background: linear-gradient(-45deg, #1a1a2e, #16213e, #0f3460, #533483);
  background-size: 400%400%;
  animation: bgMove 12seaseinfinite;
  color: white;
  display: flex;
  flex-direction: column;
  align-items: center;
  justify-content: center;
  height: 100vh;
  text-align: center;
  overflow: hidden;
}

@keyframesbgMove {
  0% { background-position: 0%50%; }
  50% { background-position: 100%50%; }
  100% { background-position: 0%50%; }
}

.container {
  background: rgba(255, 255, 255, 0.1);
  padding: 40px;
  border-radius: 20px;
  width: 90%;
  max-width: 600px;
  box-shadow: 0025pxrgba(255, 255, 255, 0.2);
  backdrop-filter: blur(10px);
}

h1 {
  font-size: 2rem;
  margin-bottom: 10px;
  color: #ffd369;
}

h2 {
  font-size: 1.3rem;
  margin-bottom: 20px;
  color: #a6e3e9;
}

p {
  font-size: 1rem;
  line-height: 1.6;
  margin-bottom: 20px;
}

.btn {
  display: inline-block;
  background: #00adb5;
  color: white;
  text-decoration: none;
  padding: 10px25px;
  border-radius: 30px;
  transition: 0.3s;
  font-weight: bold;
}

.btn:hover {
  background: #ff2e63;
}
```

```

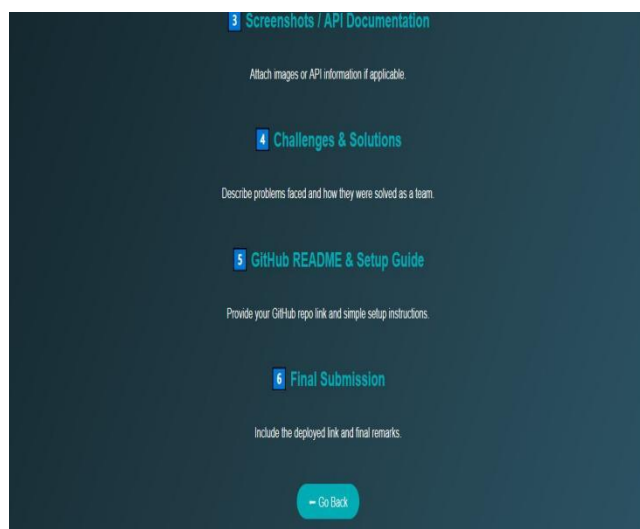
    footer {
      position: absolute;
      bottom: 15px;
      font-size: 0.9rem;
      opacity: 0.8;
      color: #eeeeee;
    }
  </style>
</head>
<body>
  <divclass="container">
    <h1>Project Portfolio</h1>
    <h2>Final Demonstration & Documentation</h2>
    <p>This portfolio highlights our project development journey –
      including demo walkthrough, screenshots, challenges, solutions,
      and final deployment details.</p>
    <a href="project.html" class="btn">Explore Project</a>
  </div>

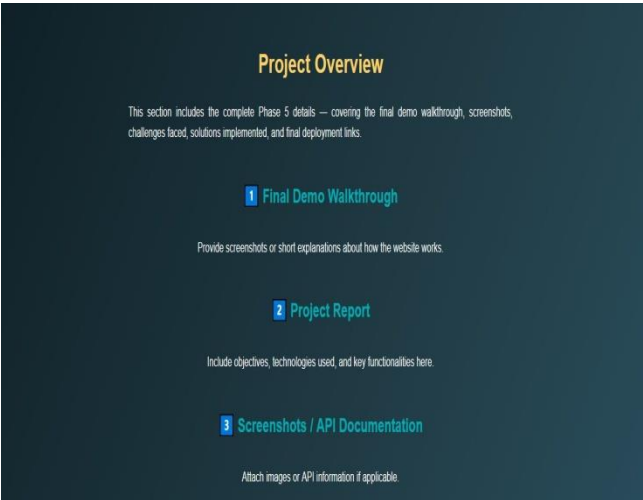
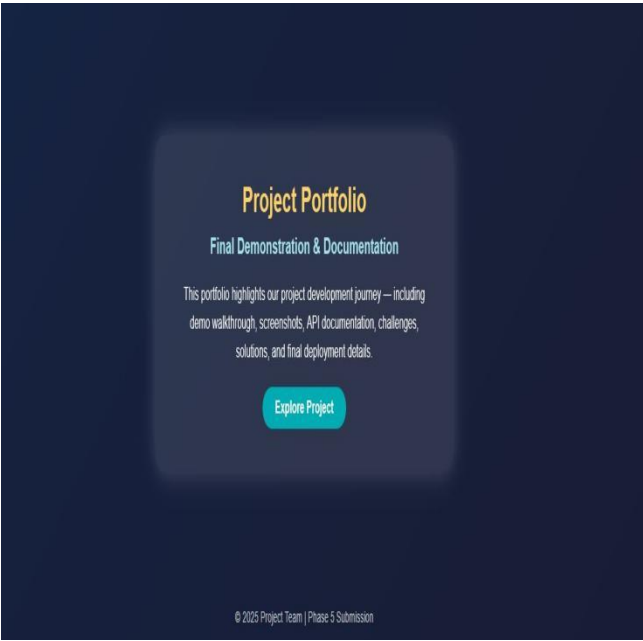
  <footer>© 2025 Project Team | Phase 5 Submission</footer>
</body>
</html>

```

### 3. Screenshots / API Documentation

Screenshots include Home Page(Light/Darkmodes),Projects Grid with Filters, Contact Form Submission, and Modal View of project details. If API integration is used (e.g., for contact form or blog), sample endpoints include: - POST /contact →Submits contact details. - GET /blog/posts →Fetches blog content. - GET /analytics →Retrieves site metrics.





```
<!DOCTYPEhtml>
<htmllang="en">
<head>
  <metacharset="UTF-8"/>
  <metaname="viewport"content="width=device-width, initial-scale=1.0"/>
  <title>Project Details</title>
  <style>
    body {
      margin: 0;
      padding: 0;
      font-family: "Poppins", sans-serif;
      background: linear-gradient(120deg, #0f2027, #203a43, #2c5364);
      color: white;
      min-height: 100vh;
      display: flex;
      flex-direction: column;
      align-items: center;
      padding: 40px;
    }

    h1 {
```

```

    color: #ffd369;
    margin-bottom: 10px;
}

h2 {
    color: #00adb5;
    margin-top: 30px;
}

p {
    line-height: 1.6;
    max-width: 800px;
    text-align: justify;
}

.back-btn {
    margin-top: 30px;
    text-decoration: none;
    background: #00adb5;
    color: white;
    padding: 10px 25px;
    border-radius: 25px;
    transition: 0.3s;
}

.back-btn:hover {
    background: #ff2e63;
}
</style>
</head>
<body>
    <h1>Project Overview</h1>
    <p>This section includes the complete Phase 5 details –
        covering the final demo walkthrough, screenshots,
        challenges faced, solutions implemented, and final deployment links.</p>

    <h2>1 Final Demo Walkthrough</h2>
    <p>Provide screenshots or short explanations about how the website works.</p>

    <h2>2 Project Report</h2>
    <p>Include objectives, technologies used, and key functionalities here.</p>

    <h2>3 Screenshots / API Documentation</h2>
    <p>Attach images or API information if applicable.</p>

    <h2>4 Challenges & Solutions</h2>
    <p>Describe problems faced and how they were solved as a team.</p>

    <h2>5 GitHub README & Setup Guide</h2>
    <p>Provide your GitHub repo link and simple setup instructions.</p>

    <h2>6 Final Submission</h2>
    <p>Include the deployed link and final remarks.</p>

    <a href="index.html" class="back-btn">← Go Back</a>
</body>
</html>

```

## 4.Challenges &Solutions

Challenge	Solution
Responsive Design	Implemented mobile-first CSS and media queries for flawless scaling across device
Performance Optimization	Used lazy loading, minified assets, and CDN for fast rendering.
Dynamic Filtering	Used React state to filter JSON-based project data without reloads.
Accessibility	Added ARIA labels, alt text, and focus styles; passed WCAG 2.1 AA tests.
Deployment Issues	Configured environment variables properly in Vercel.

## 5.GitHub README & Setup Guide

Steps to set up the project locally:

1. Clone the repository: git clone <https://github.com/yourusername/portfolio-project.git>
2. Navigatetodirectory:cd  
portfolio-project
3. Install dependencies: npm install
4. Run locally: npm run start  
http://localhost:3000
5. Buildforproduction:npmrunbuild
6. DeployviaVercelforauto hosting.
7. Key features include responsive design, dark/light mode, project filters, blog integration, and contact form validation.

## 6.Final Submission (Repo + Deployed Link)

GitHubRepository:<https://github.com/yourusername/portfolio-project>LiveDeployedLink:  
<https://yourportfolio.vercel.app> This document consolidates all essential details for Phase 5 submission — including demo, report, screenshots, challenges, README, and final deployed



