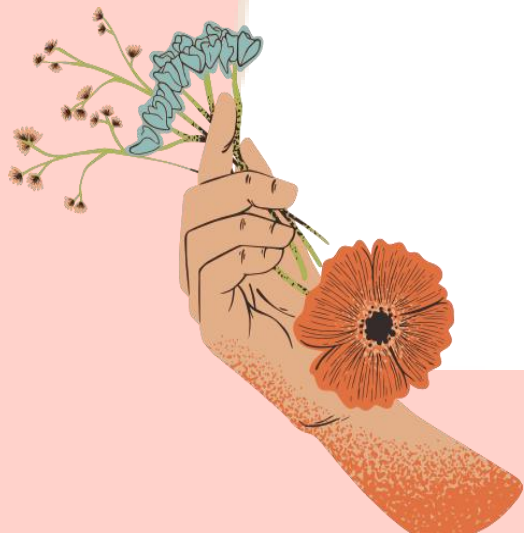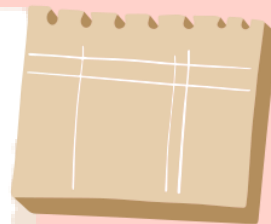# Digital

Portfolio

Project title:

STUDENT NAME : MALAIYARASI M

REGISTER NO AND NMID :
2A8BB30EA4D3B58A87643A3077345D7C

DEPARTMENT : *B.SC COMPUTER SCIENCE*

COLLEGE : VEL TECH RANGA SANKU ARTS COLLEGE
/ UNIVERSITY OF MADRAS

Agenda

1. Problem Statement
2. Project overview
3. End users
4. Tools and Technologies
5. Portfolio design and Layout
6. Features and Layout
7. Results and Screenshot
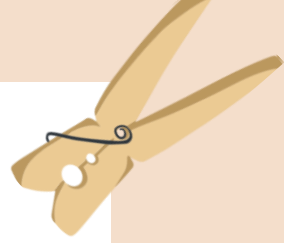8. Conclusion
9. Github Link

Problem Statement

➢ In today's digital era, traditional resumes are not enough to effectively showcase skills and projects.

➢ Many students and professionals lack a structured online presence to highlight their work and achievements.

➢ A digital portfolio offers an interactive and accessible solution to present skills, experiences, and accomplishments in a modern, engaging way.

Problem Overview

➤ **Brief summary:** This project is a digital portfolio to professionally present my background, skills, and creative work.

➤ **Contains key sections:** About Me, Projects, Skills, and Contact for easy navigation.

➤ **Main idea:** Showcase personal achievements, highlight technical expertise, and display completed projects in an organized manner.
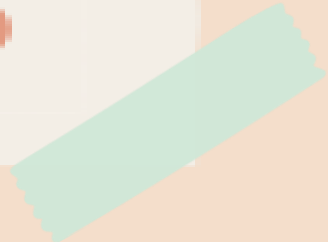
End Users

Students: *Showcase academic projects, assignments, and build resumes for further studies.*

Job Seekers: *Share skills, experience, and portfolio with recruiters and employers.*

Freelancers: *Present work samples and completed projects to attract potential clients.*

Professionals: *Highlight career achievements, and ongoing development.*
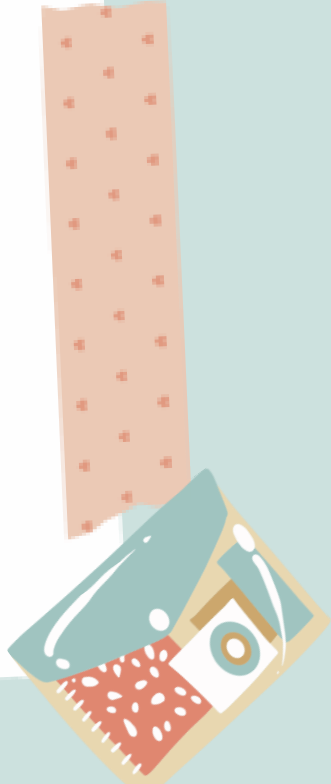
TOOLS AND TECHNIQUES

- HTML: *Builds the main structure of all portfolio pages and sections.*

- CSS: *Styles the portfolio with colors, layouts, and makes it responsive for all device sizes.*

- JavaScript: *Adds interactivity-navigation menu, animations, and form validation.*

- Code Editor: *Developed using VS Code for efficient coding.*

- Hosting: *Published online using GitHub Pages for easy sharing and access.*

POTFOLIO DESIGN AND LAYOUT

➢ **Home/About Me, Projects, Skills, Contact.**

➢ **Consistent color scheme and clean typography throughout the portfolio.**

➢ **Easy navigation bar for smooth movement between sections.**

➢ **Visual elements like icons and images for better engagement.**

➢ **Fully responsive layout optimized for both mobile and desktop devices.**

Features And Functionality

- ➢ Navigation bar with smooth scrolling for easy access to all sections.
- ➢ Project showcase including images and detailed descriptions for each project.
- ➢ Interactive elements such as hover effects and animations to enhance user engagement.
- ➢ Contact form with validation to ensure correct and complete user input.
- ➢ Responsive design that works seamlessly on desktop, tablet, and mobile devices.

Results and Screenshot

HTML:

```html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-
      width, initial-scale=1">
6     <title>Personal Portfolio</title>
7     <link rel="stylesheet" href="style.css" >
8   </head>
9   <body>
10    <header>
11      <div class="container header-container">
12        <h1>Malaiyarasi M</h1>
13        <p class="subtitle">Bachelor of Science,
        madras University</p>
14        <button id="darkModeToggle">🌙</button>
15      </div>
16    </header>
17    <nav>
18      <ul class="nav-links">
19        <li><a href="#about" class="nav-link
        active">About</a></li>
20        <li><a href="#skills" class="nav-
        link">Skills</a></li>
21        <li><a href="#projects" class="nav-
        link">Projects</a></li>
```

```html
link">Contact</a></li>
      </ul>
    </nav>
    <main>
        <section class="welcome-section">
            <h1>Welcome!</h1>
        <section id="about" class="section">
          <h2>About Me</h2>
            <p>Hello! My name is Malaiyarasi, and I am
    currently a 2nd year BSc Computer Science student.
    I am passionate about programming, algorithms, and
    building innovative software solutions.</p>
        </section>
        <section id="skills" class="skills">
          <h2>Skills</h2>
          <ul>
            <li>HTML</li>
            <li>CSS</li>
            <li>JavaScript</li>
            <li>Java</li>
            <li>Python</li>
          </ul>
        </section>
        <section id="projects">
          <h2>Projects</h2>
```

```html
          <h3>Portfolio Website</h3>
          <p>Developed a responsive portfolio
    website using HTML, CSS, and JavaScript to
    showcase projects and skills.</p>
        </div>
        <div class="project-card">
          <h3>Java Swing Application</h3>
          <p>Created a multi-threaded Java Swing app
    demonstrating GUI event handling and thread
    synchronization.</p>
        </div>
        <div class="project-card">
          <h3>Database Management</h3>
          <p>Designed and implemented SQL database
    for student record management with CRUD
    operations.</p>
        </div>
      </div>
      <br><br><br>
    <section class="contact-section">
    <div class="contact-info">
      <h2>Contact Me</h2>
      <ul class="info-list">
        <li>
          <span class="icon">&#9993;</span>
```

CSS:

```css
body {
  font-family: 'Arial', sans-serif;
  margin: 0;
  padding: 0;
  background-color: #f9f9f9;
  color: #333;
  transition: background-color 0.3s ease, color
0.3s ease;
}
body.dark-mode {
  background-color: #121212;
  color: #e0e0e0;
}
.container {
  max-width: 960px;
  margin: auto;
  padding: 20px;
  text-align: center;
}
.skills ul {
  list-style: none;
  padding: 0;
  display: flex;
  flex-wrap: wrap;
}
.skills li {
```

```css
  background: #222;
  color: white;
  padding: 1rem 3rem;
  margin: 0.3rem;
  border-radius: 10px;
  font-size: 0.9rem;
}
header {
  background-color: #007acc;
  color: white;
  padding: 40px 20px;
  position: relative;
}
header h1 {
  margin: 0;
  font-size: 3rem;
  letter-spacing: 2px;
}
header p {
  margin: 10px 0 0;
  font-size: 1.2rem;
}
#darkModeToggle {
  position: absolute;
  top: 20px;
  right: 20px;
```

```css
  background: #222;
  color: white;
  padding: 1rem 3rem;
  margin: 0.3rem;
  border-radius: 10px;
  font-size: 0.9rem;
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}
header p {
  margin: 10px 0 0;
  font-size: 1.2rem;
}
#darkModeToggle {
  position: absolute;
  top: 20px;
  right: 20px;
```

Java Script:

```javascript
1   const darkToggle =
    document.getElementById('darkModeToggle');
2   const body = document.body;
3
4   darkToggle.addEventListener('click', () => {
5     body.classList.toggle('dark-mode');
6     if (body.classList.contains('dark-mode')) {
7       localStorage.setItem('theme', 'dark');
8     } else {
9       localStorage.setItem('theme', 'light');
10    }
11  });
12
13  window.addEventListener('DOMContentLoaded', () =>
    {
14    const savedTheme =
    localStorage.getItem('theme');
15    if(savedTheme === 'dark') {
16      body.classList.add('dark-mode');
17    }
18  });
19
20  const form = document.getElementById('contact-
    form');
21  const formMessage = document.getElementById('form-
    message');
```
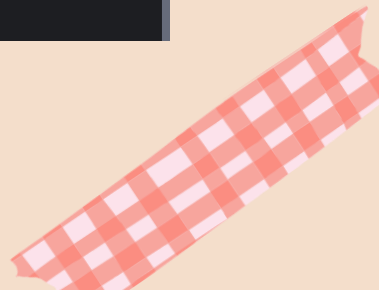
```javascript
25
26    const name = form.name.value.trim();
27    const email = form.email.value.trim();
28    const message = form.message.value.trim();
29
30    if(name.length < 2) {
31      formMessage.style.color = 'red';
32      formMessage.textContent = 'Name must be at
    least 2 characters.';
33      return;
34    }
35
36    const emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
37    if(!emailRegex.test(email)) {
38      formMessage.style.color = 'red';
39      formMessage.textContent = 'Please enter a
    valid email.';
40      return;
41    }
42
43    if(message.length < 10) {
44      formMessage.style.color = 'red';
45      formMessage.textContent = 'Message must be at
    least 10 characters.';
46      return;
```

```javascript
37    if(!emailRegex.test(email)) {
38      formMessage.style.color = 'red';
39      formMessage.textContent = 'Please enter a
    valid email.';
40      return;
41    }
42
43    if(message.length < 10) {
44      formMessage.style.color = 'red';
45      formMessage.textContent = 'Message must be at
    least 10 characters.';
46      return;
47    }
48
49    formMessage.style.color = 'green';
50    formMessage.textContent = 'Message sent
    successfully! Thank you.';
51    form.reset();
52  })
```

Malaiyarasi M

Bachelor of Science, madras University

About   **Skills**   **Projects**   **Contact**

Welcome!

About Me

Hello! My name is Malaiyarasi, and I am currently a 2nd year BSc Computer Science student. I am passionate about programming, algorithms, and building innovative software solutions.

Skills and Project:

Skills

HTML | CSS | JavaScript | Java | Python

Projects

Portfolio Website

Developed a responsive portfolio website using HTML, CSS, and JavaScript to showcase projects and skills.

Java Swing Application

Created a multi-threaded Java Swing app demonstrating GUI event handling and thread synchronization.

Database Management

Designed and implemented SQL database for student record management with CRUD operations.

Contact Me

✉️ malaiyarasi704@gmail.com

📞 9003121148

⬛ ⬛ ⬛

Contact Me

Your Name

Your Email

Your Message

Submit
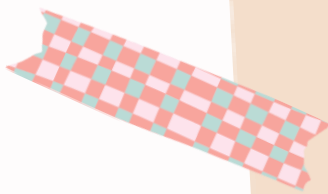
© 2025 Malaiyarasi

Conclusion

Achieved a modern, recruiter-friendly personal site with clear content architecture and accessible UI. Future upgrades: form backend/email API, projects page, SEO/meta tags, and cloud deployment. The utility-first workflow enabled rapid iteration and consistent theming without heavy tooling.ion, or supporting message

Github Link

PROJECT SOURCE CODE

THANK YOU!