Week 2 – Styled Portfolio Website

Project Documentation (Task 2)

1. Project Overview and Objectives

1.1 Project Description

This project builds upon the Week 1 HTML portfolio by adding comprehensive **CSS styling**. It was created as **Week 2 – Task 2** for The Developers Arena Web Development Internship program.

The portfolio now features professional styling with colors, typography, layouts, hover effects, responsive elements, and visual polish while maintaining the exact same HTML structure from Week 1.

1.2 Objectives

The main objectives of this Week 2 project are:

1. Transform the plain HTML portfolio into a **visually appealing website** using CSS.

2. Implement **CSS styling techniques**:

    o Custom color schemes and CSS custom properties (variables)

    o Google Fonts for professional typography

    o Flexbox layouts for modern alignment

    o Box shadows, gradients, and hover animations

    o Responsive design elements using media queries

3. Create **interactive visual feedback** (button hovers, image hovers, link underlines)

4. Maintain **semantic HTML structure** from Week 1 while enhancing appearance

5. Prepare foundation for JavaScript interactivity (Week 3)

2. Setup and Installation Instructions

2.1 Prerequisites

- A text editor (VS Code, Notepad++, Sublime Text)

- A modern web browser (Chrome, Firefox, Safari, Edge)

- Git (optional, for GitHub deployment)

- **Profile image** (Rittik.jpg) in the images/ folder

2.2 Step-by-Step Installation

Option 1: Local Setup

1. **Create project folder structure**:

text

my-portfolio-week2/

├── index.html

├── README.md

└── Rittik.jpg

2. **Copy the complete HTML+CSS code** into index.html (inline <style> section)

3. **Add your profile image** (Rittik.jpg) to the images/ folder

4. **Open in browser**:

   o Double-click index.html

   o Or drag into Chrome/Firefox

Option 2: GitHub Pages Deployment

1. **Push to GitHub repository**

2. **Settings → Pages → Deploy from main branch**

3. **Live URL**: https://username.github.io/repo-name/

2.3 Key Features Added in Week 2

- **Dark/Light mode toggle** (CSS variables + hover effects)

- **Professional color scheme** (blue/gold theme)

- **Google Fonts** (Montserrat + Roboto)

- **Flexbox layouts** (About section, buttons, navigation)

- **Responsive table** (education section)

- **Hover animations** (buttons lift, images glow, links underline)

3. Code Structure Explanation

3.1 File Structure

Single file approach (index.html with embedded CSS):

text

```
index.html        ← HTML structure + <style> section
images/
└── Rittik.jpg     ← Profile photo
```

3.2 CSS Organization (Inside <style>)

1. CSS Custom Properties (Variables):

css

```css
:root {
  --primary: #0a3b71;    /* Main blue */
  --accent: #feca1b;     /* Gold accent */
  --background: #f6f8fa;  /* Light background */
  --btn-bg: #0a3b71;     /* Button colors */
}
body.dark { /* Dark mode overrides */ }
```

2. Global Typography & Reset:

css

```css
body {
  font-family: 'Roboto', Arial, sans-serif;
  margin: 0;
  background: var(--background);
}
```

3. Component Styles:

- **Header**: Gradient backgrounds, sticky positioning
- **Navigation**: Flexbox horizontal menu with hover underlines
- **Sections**: Card-style with shadows and dashed borders

- **Table**: Styled education table with alternating rows

- **Buttons**: 3D hover effects (lift + shadow + color change)

- **Image**: Profile photo with gold border + hover glow

4. Responsive Design (Media Queries):

css

```css
@media (max-width: 700px) {
  /* Mobile adjustments */
  .about-row { flex-direction: column; }
  main { padding: 16px; }
}
```

3.3 Key CSS Features Implemented

Technique	Purpose	Example
CSS Variables	Theme switching	--primary: #0a3b71
Flexbox	Modern layouts	.about-row { display: flex; }
Box Shadows	Depth/3D effect	box-shadow: 0 8px 32px rgba(...)
Transitions	Smooth animations	transition: all 0.3s ease
Gradients	Visual appeal	background: linear-gradient(...)
Media Queries	Responsiveness	@media (max-width: 700px)
Google Fonts	Typography	Montserrat, Roboto

4. Screenshots of Working Application

4.1 Desktop View (1024px+)

Expected appearance:

- Clean header with navigation

- Professional card-style sections

- Styled education table

- Gold-bordered profile image

- Hover effects on buttons/links

4.2 Tablet View (768px)

Expected appearance:

- Navigation remains horizontal

- Sections stack comfortably

- Table readable without horizontal scroll

4.3 Mobile View (375px)

Expected appearance:

- Compact header

- Stacked About section (image above text)

- Responsive table

- Touch-friendly buttons

4.4 Dark Mode Toggle

Before/After:

🔆 Light Mode → 🌙 Dark Mode

- Background changes from light to dark

- Text colors invert

- All elements adapt using CSS variables

4.5 How to Capture Screenshots

1. Open index.html in Chrome

2. **Desktop**: Ctrl+Shift+I → Toggle Device Toolbar → Desktop

3. **Mobile**: Toggle Device Toolbar → iPhone/Android

4. **Full page**: Ctrl+Shift+P → "Capture full size screenshot"

5. Save as: week2-desktop.png, week2-mobile.png, etc.

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5. Explanation of How Technical Requirements Were Met

5.1 Requirement 1: CSS Styling Applied

- **100% inline CSS** (no external files needed)

- **Professional color scheme**: Blue (#0a3b71) + Gold (#feca1b)

- **Custom Google Fonts**: Montserrat (headings) + Roboto (body)

- **Visual hierarchy**: Clear section separation with cards/shadows

5.2 Requirement 2: Layout & Typography

- **Flexbox layouts**: About section, button groups, navigation

- **Typography scale**: h1 (2.2em), h2 (1.35em), body (1.03em)

- **Line heights**: 1.6em for readability

- **Professional spacing**: Consistent padding/margins

5.3 Requirement 3: Interactive Elements

Element	Hover Effect
Buttons	Lift + shadow + gold background
Profile Image	Blue border + glow shadow
Navigation Links	Gold underline animation
Mode Toggle	Background flip + lift

5.4 Requirement 4: Responsive Design Elements

- **Mobile-first breakpoints**: 700px media query

- **Flexible images**: object-fit: cover

- **Responsive table**: Stays readable on mobile

- **Touch targets**: Minimum 44px button height

5.5 Requirement 5: Week 1 HTML Preserved

- **Exact same HTML structure** as Week 1

- **All semantic elements intact**: <header>, <main>, <section>

- **Same navigation IDs**: #bio, #education, etc.

- **Ready for Week 3 JavaScript** (no structural changes needed)

5.6 Bonus Features Implemented

- **Dark/Light mode** using CSS variables

- **CSS custom properties** for theme switching

- **Smooth transitions** (0.3s ease)

- **Box shadows** for modern depth

- **Gradient accents** on headings

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6. GitHub Repository Structure

text

week2-portfolio/

├── index.html   # Complete styled portfolio

├── README.md   # This documentation

└── Rittik.jpg   # Profile image

File size: ~25KB (optimized for fast loading)

Week 2 Success: The portfolio is now **professional, interactive, and visually stunning** while preserving the perfect HTML foundation from Week 1. Ready for JavaScript interactivity in Week 3!