



# Internet Technology

*Connecting Intelligence*

**Course Work**

# Responsive Interactive Portfolio

## Objective

Design and develop a **modern, interactive, and fully responsive personal portfolio website**. This project will showcase your **skills, projects, and experience** while demonstrating your knowledge of **HTML5, CSS (or a framework), and JavaScript**. It should reflect your personal style, technical expertise, and attention to design and accessibility.

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## Core Requirements

### 1. HTML5 & CSS (or Framework)

- **HTML5 Semantics:**
    - Use semantic HTML5 elements such as `<header>`, `<main>`, `<section>`, `<article>`, and `<footer>` to structure your content.
  - **Styling (Choose One):**
    - You may use **plain CSS3**, **Bootstrap**, or **Tailwind CSS** for styling your site.
    - Regardless of the tool, your layout and styles should demonstrate advanced usage:
      - **Flexbox** and/or **Grid**
      - Transitions and animations
      - Organized, modular styles
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### 2. Responsive Web Design

- Your website must be **fully responsive**, working seamlessly on:
    - Desktops
    - Tablets
    - Mobile phones
  - **Use Media Queries** or responsive utility classes (e.g., Tailwind or Bootstrap) to adjust layout across screen sizes.
  - Maintain **visual consistency**, **readability**, and **usability** on all devices.
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### 3. JavaScript and Interactivity

- **Smooth Scrolling:** Use JavaScript or CSS (scroll-behavior: smooth) to implement smooth navigation between sections.
- **Interactive Elements:**
  - Use modals, lightboxes, or expandable sections to display project details dynamically.

- **API Integration (Required):**

- Integrate a public API (e.g., **GitHub API**) to dynamically display your repositories or coding projects.

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#### 4. Advanced Styling Features

- Include at least **two** of the following:
  - **CSS Variables** for theme control
  - **Blend Modes** or **Filters** for visual effects
  - **Custom Fonts** via Google Fonts or @font-face
  - **Dark/Light Theme Toggle** using CSS and JavaScript

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#### 5. Optional – CSS Preprocessor

If desired, you may use **Sass** or **Less** to:

- Modularize styles
- Use nesting, variables, and mixins
- Improve maintainability

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#### 6. Accessibility

Your site should be **accessible to all users**:

- Use **ARIA roles** and proper labeling (aria-label, aria-hidden, etc.)
- Ensure **keyboard navigability** for all interactive components
- Provide **alt text** for images and ensure adequate color contrast

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#### 7. Build Tools (Optional)

Advanced students may enhance development workflow by using:

- **Gulp, Webpack, or Vite** to automate tasks like:
  - File bundling
  - CSS/JS minification
  - Image optimization

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#### Bonus Challenges (Extra Credit Opportunities)

Go beyond the basics by adding any of the following:

- **Timeline or Progress Bar:** Visualize your career or learning journey
- **Theme Toggle (Dark/Light Mode)**

- **Advanced Page Transitions** using animation libraries or CSS
- **Custom Cursor or Microinteractions**
- **Sticky Navigation or Scrollspy**
- **Complex Layouts** with CSS Grid or responsive component systems

## Evaluation Criteria

Category	Description
<b>HTML &amp; CSS Usage</b>	Use of semantic HTML and modern styling techniques
<b>Responsiveness</b>	Works effectively across devices and screen sizes
<b>JavaScript Functionality</b>	Includes smooth scrolling, modals, API usage, etc.
<b>Creativity &amp; UI/UX</b>	Visually engaging, unique, and intuitive design
<b>Accessibility</b>	ARIA support, keyboard navigation, alt text
<b>Code Quality</b>	Clean, well-documented, and well-organized source code
<b>Extra Features</b>	Use of bonus challenges and advanced development tools

## Technology Options

You may choose any combination of the following:

### Category Options

**Styling** Plain CSS3, Bootstrap 5, Tailwind CSS

**Scripting** Vanilla JavaScript

**Preprocessors** Sass, Less (optional)

**Build Tools** Gulp, Webpack, Vite (optional)

## Inspiration and Reference Portfolios

### Student Portfolio Examples

- [Vinuth Sriarampath](#)
- [Shehan Mendis](#)
- [Chiran Aiman](#)
- [Dasun Mihiranga](#)
- [Dulina 2004](#)
- [Pawara MMNS](#)
- [Eternatus9999](#)

## Professional Portfolio Examples

- [Matt Farley](#)
- [Bruno Simon](#)
- [Brittany Chiang](#)
- [Olaolu Olawuyi](#)
- [Imran Molla](#)

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## Final Tips

- Focus on **code readability**, **visual polish**, and **user experience**.
- Use this project as a real-world portfolio piece to impress potential employers or clients.
- Think creatively—make it your own!

