

Project Task: Build a Responsive Multi-Page Website

Objective:

Create a fully responsive, visually appealing **multi-page website** that incorporates all fundamental **HTML** and **CSS** concepts. The website should include a homepage, an about page, a services page, a contact page, and a blog page.

Requirements:

1. HTML Concepts to Cover

✓ **HTML5 Semantic Elements:** Use `<header>`, `<nav>`, `<section>`, `<article>`, `<aside>`, `<footer>`, etc.

✓ **Forms & Input Elements:** Implement a contact form using `<input>`, `<textarea>`, `<select>`, `<button>`, and `<label>`.

✓ **Tables & Lists:** Create an organized service list using `<table>` or `/`.

✓ **Multimedia Elements:** Embed a **video**, **audio**, and **images** using `<video>`, `<audio>`, and ``.

✓ **Hyperlinks & Navigation:** Use **relative and absolute links** for internal/external navigation.

✓ **Meta Tags:** Optimize for SEO using `<meta>` tags.

2. CSS Concepts to Cover

✓ **Selectors & Combinators:** Use **class**, **id**, **descendant**, **child**, **sibling selectors** effectively.

✓ **Box Model:** Demonstrate **margin**, **padding**, **border**, and **content** spacing.

✓ **Flexbox & Grid:** Layout sections using **CSS Grid** for the main structure and **Flexbox** for elements inside sections.

✓ **Positioning & Z-Index:** Implement **fixed**, **relative**, **absolute**, and **sticky positioning** where needed.

✓ **Media Queries:** Ensure **mobile responsiveness** using breakpoints (e.g., `@media (max-width: 768px)`).

✓ **Transitions & Animations:** Add hover effects, smooth transitions, and basic animations.

✓ **CSS Variables:** Define and use reusable color and spacing variables.

Task Breakdown:

1 Homepage (index.html)

- Hero section with **background image/video** and a CTA button.
- Navigation bar with **dropdown menu** and a **search bar**.
- **Featured services or blog preview** in a grid layout.

2 About Page (about.html)

- Use a **two-column layout** (image + text).
- Include a **team section** with images & descriptions.

3 Services Page (services.html)

- List different services in a **table or card layout**.
- Include **hover effects** for each service.

4 Blog Page (blog.html)

- Display **blog posts dynamically** using CSS Grid or Flexbox.
- Include a **"Read More" button** with hover effects.

5 Contact Page (contact.html)

- Implement a **styled form** with validation.
- Include **Google Maps API** for location.

Bonus Tasks (For Extra Learning)

- ✓ **Dark Mode Toggle** using CSS variables and JavaScript.
- ✓ **Sticky Navigation Bar** that changes style on scroll.
- ✓ **Carousel/Slider** for showcasing testimonials.

Deliverables:

- ✂ Complete source code with **clean HTML & CSS structure**.
- ✂ Fully responsive website that works on **mobile, tablet, and desktop**.
- ✂ Deployed on **GitHub Pages**.