

WEB Technology: Project #3

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Introduction

Welcome to Project #3 of the Web Technology course. This project will help you gain hands-on experience with HTML and CSS, focusing on structuring your page using `<div>` and `<container>` elements, advanced styling, and responsive design.

You will create a modern-looking webpage that incorporates several elements and advanced features to make the page interactive and well-structured.

This assignment consists of **10 tasks** that will guide you step-by-step to create a visually appealing webpage using HTML and CSS.

1 Problem Title

Advanced Website Development using HTML and CSS

You are required to create an advanced web page using HTML and CSS. The objective is to develop your skills by implementing more advanced elements and styling techniques.

1.1 Tasks Overview

Below are the 10 tasks you need to complete as part of this project:

Task 1: Create an HTML Document with Containers and Divs

Create a basic HTML document structure, and use a `<div>` element to create different sections:

- Use a `<!DOCTYPE html>` declaration.
- Include a `<header>`, `<main>`, and `<footer>` inside a `<div>` container.
- Ensure your page has the title "Advanced Web Development."

Task 2: Create a Navigation Menu

Add a navigation bar at the top of your page:

- Use an unordered list (``) to create links to sections like "Home," "Portfolio," and "Contact."
- Style the navigation using CSS with a horizontal layout.
- Use a container `<div>` for the navigation bar to control the width and alignment.

Task 3: Add a Hero Section

Create a "Hero" section at the top of your page:

- Use a `<div>` with a background image and a prominent heading (`<h1>`).
- Include a button (`<button>`) with the text "Learn More" that links to another section on the page.

Task 4: Create a Portfolio Section

Add a "Portfolio" section to your page:

- Use the `<section>` element and multiple `<div>` elements to create individual portfolio items.
- Each portfolio item should have an image, a title, and a brief description.
- Style the portfolio items to be in a grid layout using CSS Flexbox or Grid.

Task 5: Add a Contact Form with Container

Create a "Contact Me" section:

- Use a `<form>` element inside a container `<div>`.
- Include input fields (`<input>`) for "Name," "Email," and a text area (`<textarea>`) for a message.
- Add a "Submit" button with CSS styling.

Task 6: Responsive Design

Make your page responsive:

- Use media queries in your CSS to adjust the layout for smaller screens.
- Ensure the navigation menu changes to a mobile-friendly layout (e.g., a dropdown).

Task 7: Use CSS to Style Containers and Divs

Link a CSS file to style your page:

- Style your `<div>` containers with padding, margins, and border-radius.
- Set a different background color for each container to distinguish sections.
- Use custom fonts for your headers (`<h1>`, `<h2>`).

Task 8: Add a Footer with Social Media Links

Create a footer element at the bottom of your page:

- Include links to your social media profiles (e.g., Facebook, Twitter, LinkedIn).
- Use icon images or fonts for social media links.
- Style the footer to have a different background color than the rest of the page.

Task 9: Add an Animated Button

Add an animated button to the "Hero" section:

- Use CSS to create a hover animation effect for the "Learn More" button.
- Ensure that the button changes color, grows in size, or shows a shadow when hovered over.

Task 10: Use CSS Grid for Layout

Redesign the main layout using CSS Grid:

- Divide the page into a 2-column layout for larger screens.
- Adjust to a single-column layout for smaller devices using media queries.

Info

Save your HTML file as "index.html" and link the external CSS file properly. Pay special attention to formatting and indentation in both HTML and CSS to keep your code organized and readable.

Submission

Submit both your `index.html` and CSS file (`style.css`). The deadline for submission is **October 6, 2024**.

Good Luck!

These tasks are designed to help you understand the advanced features of HTML and CSS, including layouts, containers, and responsiveness. Feel free to reach out if you have any questions.