

## Assignment: Building Your Portfolio Website with HTML, CSS, and JavaScript

Time Limit: 10 days.

In this assignment, you will continue building your portfolio website using HTML, CSS, and JavaScript. You will design the Home page, Projects page, Skills page, and Contact page. Each page will have its own unique content and functionality.

### Part 1: Home Page

1. Use JavaScript to enhance interactivity on your Home page. For example:

- Add a slideshow or carousel to display images of your featured projects.
- Include a contact form with form validation to ensure user input is correct.
- Implement smooth scrolling functionality for navigation links.
- Create a dynamic greeting that changes based on the time of day. Feel free to explore other creative ideas to enhance the user experience.

### Part 2: Designing the Projects Page

1. Create a new HTML file named "projects.html" in your portfolio repository.
2. Design a layout for your Projects page, showcasing your projects with descriptions, screenshots, and links.
3. Apply CSS styles to make your Projects page visually appealing and easy to navigate.
4. Utilize JavaScript to add functionality to your Projects page. For example:

- Implement a filtering mechanism to allow users to filter projects by category or technology.
- Add a search feature to enable users to search for specific projects.
- Create a modal or lightbox effect to display project details when clicked.
- Incorporate a dynamic progress bar to indicate project completion. Customize the functionality based on your preference and showcase your creativity.

### Part 3: Designing the Skills Page

1. Create a new HTML file named "skills.html" in your portfolio repository.
2. Develop a layout for your Skills page, listing your skills, tools, and technologies.
3. Apply CSS styles to make your Skills page visually appealing and organized.
4. Use JavaScript to enhance the display of your skills. For example:

- Create animations or transitions to bring attention to specific skills.
- Add interactivity, such as tooltips or hover effects, to provide additional information on each skill.
- Implement a progress bar or chart to indicate your proficiency level for each skill. Customize the functionality to present your skills effectively.

## Part 4: Designing the Contact Page

1. Create a new HTML file named "contact.html" in your portfolio repository.
2. Design a layout for your Contact page, providing information on how potential clients or employers can reach you.
3. Apply CSS styles to make your Contact page visually appealing and easy to navigate.
4. Utilize JavaScript to enhance user interaction on your Contact page. For example:
  - Implement form validation to ensure all required fields are filled correctly before submission.
  - Add interactive elements like maps or geolocation to provide location-based information.
  - Incorporate social media integration or contact form submission using AJAX for a seamless experience. Customize the functionality to make it easy for others to contact you.

Grading: I will be grading this assignment based on the following criteria:

- The HTML code is well-structured, valid, and contains the necessary elements for each page.
- The CSS styles are applied appropriately, resulting in visually appealing and responsive layouts.
- The JavaScript functionality enhances interactivity and user experience on each page.
- The changes are committed to your GitHub repository, and all pages are viewable on the web.

Remember to continuously test and iterate your code as you develop your portfolio website. Feel free to explore additional features, libraries, or frameworks to enhance your website further. If you have any questions or need