CSE 4234/5234 – Web Applications

Fall 2024

Mini-Project 1: HTML + CSS

Total Points: 30

Date Assigned: Friday, Sept 6, 2024 **Due Date:** Monday, Sept 16, 2024

Submission Instructions: Please submit your work on Canvas as a zipped folder named `cse4234_yourname_project1.zip`

Key Concepts Demonstrated

- Styling HTML5 pages using CSS

© All rights reserved

1. (26 points) Your task for this project is to create and style a single-page personal portfolio using CSS (Cascading Style Sheets) to satisfy the following specifications:
    - Create a single page having the following sections:
        1. $\underbrace{About\ me}$ - A short biography of at least 150 words. Use paragraphs (<p> tags) to present this information.
        2. $\underbrace{Marketable\ skills\ and\ abilities}$ - Describe your skills using unordered lists
        3. $\underbrace{Projects}$ - A section describing any projects you have completed in your time in college with links to them if they are hosted online. Make sure to include meaningful images or graphics for each project.
        4. $\underbrace{Resume}$ - Use HTML5 tags and lists to present your resume. Your resume should contain at least the following: education, work experience, and extracurricular activities.
        5. $\underbrace{Contact\ me}$ - A section containing a non-functional contact-us form (i.e., a form having input fields such as name, email, phone, and message, without the functionality of sending messages) and any other contact information you deem necessary.
    - Style the <h2> tags with the font-family: `Montserrat, sans-serif`
    - Use the following font-family for all other sections and elements: `"Segoe UI", Roboto, Helvetica, Arial, serif`. All font-sizes are system defaults.
    - The elements in the header and footer should be styled using a flex layout. The footer should remain at the extreme bottom of the page on all devices without using "`position:fixed;`"or "`position:absolute;`". The items in the header should appear on the left and the items in the footer should be centered on the page.
    - Include in your footer links to your professional pages such as LinkedIn, Google Scholar, etc.
    - Both the header and footer should be styled with the same 2-color gradient for the background. You may choose a gradient of your choice.
    - The links in the main navigation should be styled using a border as shown in the images below. Links should be equal to the size of their parent list-items (`<li>`). The border and font-color should change color when the user hovers the cursor over the navigation links in the header.
    - Use media queries to style your content such that the header and footer items fill the width of small devices up to 768px wide. See Figure 1 , Figure 2, and Figure 3 as a guide. All portfolio/project images should appear as block layout when viewed on a mobile device. (i.e., project images should occupy their rows and be sized to fill the width of the device while auto-wrapping on larger devices based on the available space.)
2. (4 points) Code should be written and indented properly with css comments where necessary as demonstrated in class. Best practices discussed in class followed accordingly. (You may not use JavaScript or external libraries/stylesheets.)

 © All rights reserved

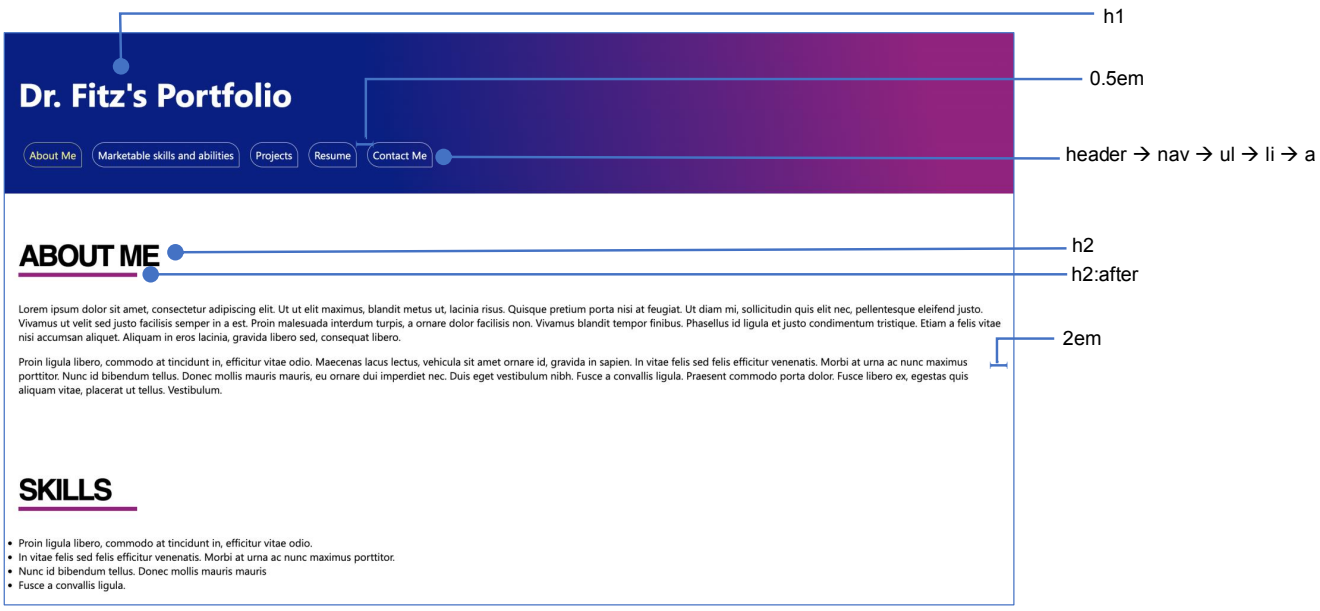

Figure 1: Portfolio view on screen sizes greater than 768px showing the header and headings

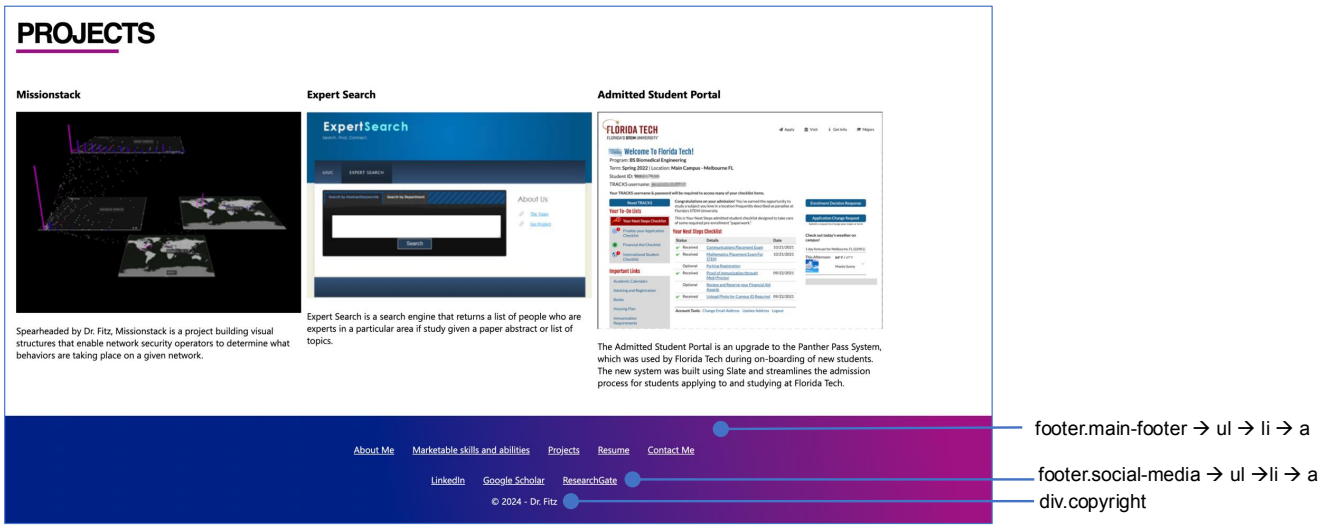

Figure 2: Portfolio view on screen sizes greater than 768px showing the footer and project images

© All rights reserved

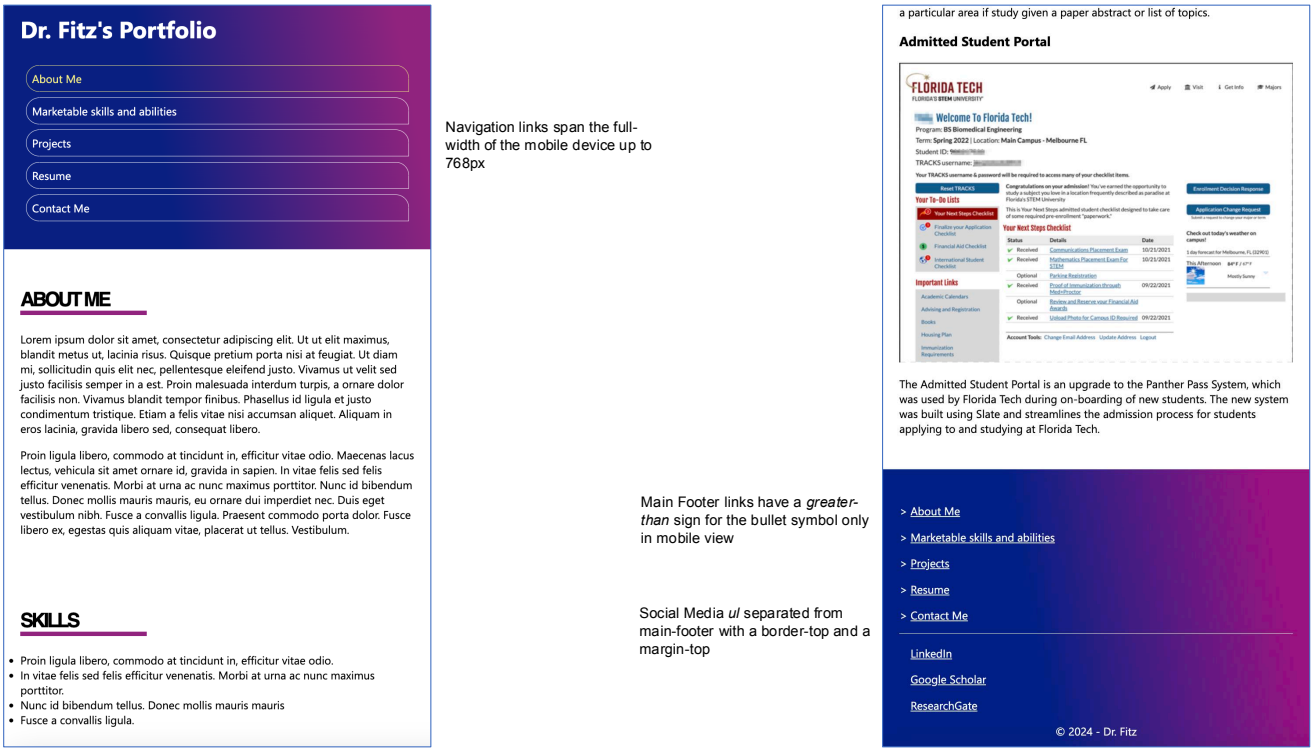

Figure 3: Portfolio view on screen sizes up to 768px wide

Bonus: 5pts

1. As a separate (additional) project from Project 1, create a dark-mode version of your portfolio using a stylesheet named `dark-mode.css`.
2. Display a hamburger menu and hide the main menu when your portfolio is viewed on a device with size up to 768px. Do not use JavaScript.
3. Add noticeable transitions to your links/navigation (eg: appear in place on load/scroll, transform shapes)
4. Change the background of the `:after` pseudo-class for each active section to feature a 2-color gradient

 © All rights reserved