

Assignment 8 Frontend

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Part 1. Responsive Design & Navigation

Task 1. Functional Responsive Layout

Fully responsive design using Bootstrap grid system
Media queries applied for mobile, tablet, and desktop
All sections adapt smoothly without overlapping

Task 2. Working Navigation and Footer Links

All navigation and footer links are functional
No broken or placeholder links
Works correctly across all screen sizes

Part 2. Functional Elements & Accessibility

Task 3. Functional Buttons Only

All buttons perform meaningful actions
Forms include validation for required fields

Task 4. Accessibility and Color Contrast (WCAG AA)

Color contrast verified with WebAIM Contrast Checker
Contrast Ratio: 13.18:1 (exceeds WCAG AAA standards)
Colors: #E0E0E0 on #1A1A1A
All WCAG AA/AAA tests: Pass

The screenshot displays the WebAIM Contrast Checker tool. At the top, there are two color selection boxes: 'Foreground' (Hex: #E0E0E0) and 'Background' (Hex: #1A1A1A). Below these are sliders for 'Lightness'. In the center, a large green box shows the 'Contrast Ratio' as **13.18:1**, which exceeds the WCAG AAA standard. Below this are three sections: 'Normal Text' (WCAG AA: Pass, WCAG AAA: Pass), 'Large Text' (WCAG AA: Pass, WCAG AAA: Pass), and 'Graphical Objects and User Interface Components' (WCAG AA: Pass). Each section shows a black box with white text.

Element Type	WCAG AA	WCAG AAA
Normal Text	Pass	Pass
Large Text	Pass	Pass
Graphical Objects and User Interface Components	Pass	

Task 5. Polished Images and Media

High-quality images with compression applied
Audio/video components work properly

Part 3. Dark/Light Mode

Task 6. Day/Night Mode with Local Storage

Toggle button implemented
Preferences saved in Local Storage
Theme persists after page refresh
Night mode: dark background (#1A1A1A) + light text (#E0E0E0)
Day mode: light background + dark text