Context: You are an accessibility expert reviewing HTML for accessibility issues. Analyze the following code in the context of WCAG (Web Content Accessibility Guidelines) 2.2, listing any issues that may violate these guidelines. You will only be analyzing the HTML, ignoring any included or missing styles and scripts. Code: ```<!DOCTYPE html> <html lang="ex"> <head> <meta charset="UTF-8"> <meta name="viewport" content="width=device-width, initial-scale=1.0"> <title>Resume Maker</title> <style> body { margin: 0; padding: 0; font-family: 'Arial', sans-serif; background-image: url('background.jpg'); background-size: cover; background-position: center; color: #fff; } header { background-color: #333; padding: 15px; text-align: center; } nav { background-color: #555; padding: 10px; } nav a { color: #fff; text-decoration: none; padding: 10px; margin: 0 10px; } section { padding: 20px; } footer { background-color: #333; padding: 10px; text-align: center; position: absolute; bottom: 0; width: 100%; } button { background-color: #4CAF50; color: #fff; /\* Adjusted text color for better contrast \*/ padding: 10px 20px; border: none; border-radius: 5px; cursor: pointer; } input[type="text"] { padding: 10px; margin: 5px 0; width: 100%; } select { padding: 10px; margin: 5px 0; } h2 { color: #333; /\* Adjusted text color for better contrast \*/ background-color: #fff; /\* Adjusted background color for better contrast \*/ padding: 10px; /\* Added padding for better spacing \*/ border-radius: 5px; /\* Added border-radius for better styling \*/ } label { color: #333; /\* Adjusted text color for better contrast \*/ background-color: #fff; /\* Adjusted background color for better contrast \*/ display: block; /\* Ensuring the label takes the full width \*/ padding: 5px; /\* Added padding for better spacing \*/ border-radius: 5px; /\* Added border-radius for better styling \*/ margin-bottom: 5px; /\* Adding margin for better spacing \*/ } .icon { width: 20px; height: 20px; margin-right: 5px; } </style> </head> <body> <header> <h1>Resume Maker</h1> </header> <nav> <a onmouseover="sample()" href="#">Home</a> <a href="#">About</a> <a href="#">Contact</a> </nav> <section> <h2>Create Your Resume</h2> <label for="name">Name:</label> <input type="text" id="name" placeholder="Enter your full name"> <label for="email">Email:</label> <input type="text" id="email" placeholder="Enter your email"> <select id="experience"> <option value="entry">Entry Level</option> <option value="mid">Mid Level</option> <option value="senior">Senior Level</option> </select> <button onclick="generateResume()" style="color: rgb(255, 255, 255); background-color: rgb(76, 175, 80);">Generate Resume</button> </section> <footer> <form> <label for="username">Username:</label><br> <input type="text" id="username" name="username"><br> <label for="password"></label><br> <input type="password" id="pwd" name="pwd"> <input type="radio" id="1" name="fav\_number" value="1"> <label for="1">1</label><br> <input type="radio" id="2" name="fav\_number" value="2"> <label for="2">2</label><br> <input type="radio" id="3" name="fav\_number" value="3"> <label for="3">3</label> <input type="checkbox" id="vehicle1" name="vehicle1" value="Bike"> <label for="vehicle1"> I have a bike</label><br> <input type="checkbox" id="vehicle2" name="vehicle2" value="Car"> <label for="vehicle2"> I have a car</label><br> <input type="checkbox" id="vehicle3" name="vehicle3" value="Boat"> <label for="vehicle3"> I have a boat</label> <input type="file" id="myfile" name="myfile"> <button type="submit">Submit</button> </form> <p>&copy; 2023 Resume Maker</p> </footer> <script> function generateResume() { // Add your resume generation logic here alert('Resume generated!'); } function sample() { alert("hovered") } </script> </body> </html> ``` Response format: Snippet with error: … Location of error: … WCAG Guideline violated: … Detection Algorithm: … Explanation of Error: …

<!DOCTYPE html>

<html lang="en">

Location of error: <html lang="ex">  
WCAG Guideline violated: 3.1.1 Language of Page  
Detection Algorithm: Detect the value of lang attribute in the <html> element.  
Explanation of Error: The lang attribute should contain a valid language tag (e.g., "en" for English).

<a onmouseover="sample()" href="#">Home</a>

Location of error: <a onmouseover="sample()" href="#">Home</a>  
WCAG Guideline violated: 2.1.1 Keyboard  
Detection Algorithm: Check for event handlers that are not accessible via keyboard.  
Explanation of Error: The onmouseover event alone is not accessible for keyboard-only users; consider adding onfocus for accessibility.

<label for="password"></label>

Location of error: <label for="password"></label>  
WCAG Guideline violated: 1.1.1 Non-text Content  
Detection Algorithm: Check for empty labels.  
Explanation of Error: The label for the password field is empty, which may confuse screen reader users.

<label for="vehicle2"> I have a car</label><br>

Location of error: <label for="vehicle2"> I have a car</label><br>  
WCAG Guideline violated: 1.3.1 Info and Relationships  
Detection Algorithm: Verify the presence of <br> elements for layout purposes.  
Explanation of Error: Using <br> for layout instead of CSS can break the structural relationship of form elements.

<input type="text" id="email" placeholder="Enter your email">

Location of error: <input type="text" id="email" placeholder="Enter your email">  
WCAG Guideline violated: 1.3.5 Identify Input Purpose  
Detection Algorithm: Check input fields that expect user information without specific autocomplete attributes.  
Explanation of Error: Inputs expecting user-specific information should utilize the autocomplete attribute to help users with disabilities.

Are there any more issues? List all that you find.

<nav>

<a onmouseover="sample()" href="#">Home</a>

<a href="#">About</a>

<a href="#">Contact</a>

</nav>

Location of error: <nav>  
WCAG Guideline violated: 2.4.4 Link Purpose (In Context)  
Detection Algorithm: Ensure the purpose of each link can be determined from the link text alone or the link text together with its programmatically determined link context.  
Explanation of Error: The link texts "Home", "About", and "Contact" are not descriptive enough without further context.

<input type="text" id="name" placeholder="Enter your full name">

Location of error: <input type="text" id="name" placeholder="Enter your full name">  
WCAG Guideline violated: 1.3.5 Identify Input Purpose  
Detection Algorithm: Check input fields that expect user information without specific autocomplete attributes.  
Explanation of Error: The input field expects user-specific information and should utilize the autocomplete attribute to help users with disabilities.

<select id="experience">

<option value="entry">Entry Level</option>

<option value="mid">Mid Level</option>

<option value="senior">Senior Level</option>

</select>

Location of error: <select id="experience">  
WCAG Guideline violated: 4.1.2 Name, Role, Value  
Detection Algorithm: Verify that form fields have appropriate labels.  
Explanation of Error: The select element lacks a corresponding label element, which is necessary for accessibility.

<footer>

<form>

<label for="username">Username:</label><br>

<input type="text" id="username"><br>

Location of error: <footer>  
WCAG Guideline violated: 1.3.1 Info and Relationships  
Detection Algorithm: Identify improper use of <br> elements for layout purposes.  
Explanation of Error: Using <br> for layout instead of CSS can break the structural relationship of form elements.

<footer>

<form>

<input type="radio" id="1" name="fav\_number" value="1">

<label for="1">1</label><br>

<input type="radio" id="2" name="fav\_number" value="2">

<label for="2">2</label><br>

<input type="radio" id="3" name="fav\_number" value="3">

<label for="3">3</label>

Location of error: <footer>  
WCAG Guideline violated: 2.5.3 Label in Name  
Detection Algorithm: Check that labels for form controls include the accessible name.  
Explanation of Error: Radio buttons should have accessible labels that match the visible text or instructions.

<label for="vehicle3"> I have a boat</label><br>

Location of error: <label for="vehicle3"> I have a boat</label><br>  
WCAG Guideline violated: 2.4.7 Focus Visible  
Detection Algorithm: Identify form control labels that do not show focus state.  
Explanation of Error: The use of <br> makes it challenging to show a visible focus indicator on checkboxes and radio buttons.

<input type="checkbox" id="vehicle1" name="vehicle1" value="Bike">

<label for="vehicle1"> I have a bike</label><br>

<input type="checkbox" id="vehicle2" name="vehicle2" value="Car">

<label for="vehicle2"> I have a car</label><br>

<input type="file" id="myfile" name="myfile">

Location of error: <input type="file" id="myfile" name="myfile">  
WCAG Guideline violated: 2.1.1 Keyboard  
Detection Algorithm: Ensure all interactive elements are keyboard accessible.  
Explanation of Error: File input elements need visible and accessible labels for users to interact with via keyboard or screen readers.

<footer>

<p>&copy; 2023 Resume Maker</p>

</footer>

Location of error: <footer>  
WCAG Guideline violated: 4.1.1 Parsing  
Detection Algorithm: Check the HTML syntax validity to ensure compliance with standards.  
Explanation of Error: The footer contains no parsing errors provided HTML is well-formed, yet remaining content should be verified for ARIA roles and proper keyboard focus management.

Are there any more issues? List all that you find.

<input type="text" id="email" placeholder="Enter your email">

Location of error: <input type="text" id="email" placeholder="Enter your email">  
WCAG Guideline violated: 1.3.1 Info and Relationships  
Detection Algorithm: Verify that input fields expecting specific input types (like email) have appropriate input types.  
Explanation of Error: The input field should have type="email" to help users enter appropriate data and for better mobile experience.

<button onclick="generateResume()" style="color: rgb(255, 255, 255); background-color: rgb(76, 175, 80);">Generate Resume</button>

Location of error: <button onclick="generateResume()">Generate Resume</button>  
WCAG Guideline violated: 2.5.3 Label in Name and 2.1.1 Keyboard  
Detection Algorithm: Ensure accessible functionality and accurate labeling of interactive elements.  
Explanation of Error: Ensure button labels match visible labels and are accessible via keyboard.

<form>

<label for="password"></label><br>

<input type="password" id="pwd" name="pwd">

</form>

Location of error: <label for="password"></label>  
WCAG Guideline violated: 1.1.1 Non-text Content and 3.3.2 Labels or Instructions  
Detection Algorithm: Check for missing or non-descriptive labels for input fields.  
Explanation of Error: The label for the password is empty, which does not provide adequate instructions to users, including those relying on screen readers.

<title>Resume Maker</title>

Location of error: <title>Resume Maker</title>  
WCAG Guideline violated: 2.4.2 Page Titled  
Detection Algorithm: Ensure the title of the document is descriptive and meaningful.  
Explanation of Error: The title is rather general and may not be sufficiently descriptive depending on the context of the application.

<body>

<header>

<h1>Resume Maker</h1>

<ul>

<li><a href="#">Skip to main content</a></li>

</ul>

</header>

<!-- Content goes here -->

</body>

Location of error: Missing skip navigation link  
WCAG Guideline violated: 2.4.1 Bypass Blocks  
Detection Algorithm: Check the presence of a skip link to bypass repetitive content.  
Explanation of Error: The document is missing a skip navigation link to help users jump directly to the main content.

New Chat (Alt-J)