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="en"> <head> <meta charset="UTF-8"> <title>Indian Cuisine Restaurant</title> <style> /\* CSS Styles \*/ /\* Add your CSS styles for layout, design, and responsiveness here \*/ </style> </head> <body> <!-- Navigation Bar --> <nav> <ul> <li><a href="#home">Home</a></li> <li><a href="#menu">Menu</a></li> <li><a href="#contact">Contact</a></li> </ul> </nav> <!-- Header with Background Image --> <header> <marquee>Welcome to our Indian Cuisine Restaurant</marquee> <p>Enjoy authentic flavors of India</p> </header> <!-- Search Field --> <form> <label for="search">Search: </label> <input type="text" id="search" placeholder="Search"> </form> <!-- Sorting Filters --> <label for="sort"></label> <select id="sort"> <option value="price">Sort by Price</option> <option value="name">Sort by Name</option> </select> <!-- Menu Items --> <div class="menu"> <div class="item"> <img src="chicken\_biryani.jpg" alt="Chicken Biryani"> <h2>Chicken Biryani</h2> <p>Description of Chicken Biryani.</p> <p><i>Price: $10</i></p> <button>Add to Cart</button> </div> <div class="item"> <img src="butter\_chicken.jpg" alt="Butter Chicken"> <h2>Butter Chicken</h2> <p>Description of Butter Chicken.</p> <p>Price: $12</p> <button>Add to Cart</button> </div> <div class="item"> <img src="butter\_naan.jpg" alt="Butter Naan"> <h2>Butter Naan</h2> <p>Description of Butter Naan.</p> <p>Price: $3</p> <button>Add to Cart</button> </div> </div> <!-- Footer --> <footer> <p>Contact us at: example@email.com</p> <p>Follow us on social media</p> <!-- Add social media icons or links here --> <form> <label for="username">Username:</label><br> <input type="text" id="username" name="username"><br> <label for="password">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"> <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> <label for="myfile"></label> <input type="file" id="myfile" name="myfile"> <button type="submit">Submit</button> </form> </footer> <!-- JavaScript for interactivity --> <script> // Add JavaScript functionality here if needed </script> </body> </html> ``` Response format: Snippet with error: … Location of error: … WCAG Guideline violated: … Detection Algorithm: … Explanation of Error: …

<marquee>Welcome to our Indian Cuisine Restaurant</marquee>

* **Location of error:** <header> element
* **WCAG Guideline violated:** 2.2.2 Pause, Stop, Hide
* **Detection Algorithm:**
  1. Locate <marquee> tags in the document.
  2. Check if any content within <marquee> or similar elements is moving or auto-updating.
* **Explanation of Error:** The <marquee> tag creates moving text, which can be distracting and difficult to read for some users, particularly those with cognitive disabilities or visual impairments.

<form>

<label for="sort"></label>

<select id="sort">

* **Location of error:** Above <select> element
* **WCAG Guideline violated:** 1.3.1 Info and Relationships
* **Detection Algorithm:**
  1. Check for <label> elements in forms.
  2. Ensure the for attribute of <label> elements is not empty and correctly labels form elements.
* **Explanation of Error:** The <label> for the <select> dropdown is empty, providing no information to screen readers about the purpose of the dropdown menu.

<form> <!-- without 'role="form"' -->

<!-- omitted code for brevity -->

</form> <!-- end of <form> before footer content -->

* **Location of error:** <footer> element -> <form> inside footer
* **WCAG Guideline violated:** 4.1.2 Name, Role, Value
* **Detection Algorithm:**
  1. Check form elements for accessibility roles.
  2. Identify crucial form elements such as inputs, checkboxes, and buttons without properly defined roles.
* **Explanation of Error:** Screen readers may not properly announce the form and its elements without a defined role, making it difficult for users to understand the form context and its content.

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

<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>

* **Location of error:** <footer> element -> Checkboxes and their labels
* **WCAG Guideline violated:** 3.3.2 Labels or Instructions
* **Detection Algorithm:**
  1. Identify checkboxes and associated <label> elements.
  2. Ensure all checkboxes have corresponding labels providing user guidance.
* **Explanation of Error:** The checkbox with id="vehicle1" is missing its label, making it unclear what option this checkbox represents for screen reader users or keyboard-only users.

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

<img src="chicken\_biryani.jpg" alt="Chicken Biryani">

<img src="butter\_chicken.jpg" alt="Butter Chicken">

<img src="butter\_naan.jpg" alt="Butter Naan">

* **Location of error:** <div class="menu"> element -> Images within menu items
* **WCAG Guideline violated:** None (Correct alt texts are provided)

<title>Indian Cuisine Restaurant</title>

* **Location of error:** <head> element
* **WCAG Guideline violated:** None (Title is meaningful)

<nav>

<ul>

<li><a href="#home">Home</a></li>

<li><a href="#menu">Menu</a></li>

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

</ul>

</nav>

* **Location of error:** <nav> element
* **WCAG Guideline violated:** None (Navigation is clear and follows best practices)

<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> element -> Radio buttons and their labels
* **WCAG Guideline violated:** None (All radio buttons are correctly labeled)

<label for="myfile"></label>

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

* **Location of error:** <footer> element -> File input field
* **WCAG Guideline violated:** 1.1.1 Non-text Content
* **Detection Algorithm:**
  1. Identify file input fields.
  2. Ensure each file input field has an associated <label> that provides descriptive text.
* **Explanation of Error:** The label for the file input is empty, providing no information to users about the purpose of the upload control.

<input type="checkbox" id="vehicle1" name="vehicle1" value="Bike"> <!-- No label for this checkbox -->

* **Location of error:** <footer> element
* **WCAG Guideline violated:** 1.3.1 Info and Relationships
* **Detection Algorithm:**
  1. Identify <input type="checkbox"> elements.
  2. Ensure each checkbox has a corresponding <label> element providing descriptive text.
* **Explanation of Error:** The checkbox with id="vehicle1" is missing its label, making it unclear what option this checkbox represents.

<form>

<label for="search">Search: </label>

<input type="text" id="search" placeholder="Search">

</form>

* **Location of error:** <body> element -> Search form
* **WCAG Guideline violated:** None (The search form is correctly labeled)

<select id="sort">

<option value="price">Sort by Price</option>

<option value="name">Sort by Name</option>

</select>

* **Location of error:** <body> element -> Sort select dropdown
* **WCAG Guideline violated:** 1.3.1 Info and Relationships
* **Detection Algorithm:**
  1. Identify <select> elements and associated <label> elements.
  2. Ensure each <label> element is populated with descriptive text relevant to the <select> element.
* **Explanation of Error:** The dropdown select element lacks a descriptive label, which could make it difficult for users to understand its purpose.

<header> <marquee>Welcome to our Indian Cuisine Restaurant</marquee> <p>Enjoy authentic flavors of India</p> </header>

* **Location of error:** <header> element
* **WCAG Guideline violated:** 2.2.2 Pause, Stop, Hide
* **Detection Algorithm:**
  1. Locate <marquee> tags in the document.
  2. Check if any content within <marquee> or similar elements is moving or auto-updating.
* **Explanation of Error:** The <marquee> tag creates moving text, which can be distracting and difficult to read for some users, particularly those with cognitive disabilities or visual impairments.

No additional issues detected in the rest of the HTML code.

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

Certainly, here's a thorough analysis of the code for additional issues based on WCAG 2.2 guidelines:

<p><i>Price: $10</i></p>

<p>Price: $12</p>

<p>Price: $3</p>

* **Location of error:** <div class="menu"> element -> Price descriptions
* **WCAG Guideline violated:** None (Price information is provided correctly though inconsistent styling of the Price content may confuse screen readers)

<form>

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

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

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

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

...

<button type="submit">Submit</button>

</form>

* **Location of error:** <footer> element -> Login form
* **WCAG Guideline violated:** 3.3.2 Labels or Instructions
* **Detection Algorithm:**
  1. Identify text input elements within forms.
  2. Ensure all inputs have associated <label> elements with explicit descriptions.
* **Explanation of Error:** While fields like "Username" and "Password" are correctly labeled, individual control instructions might be missing (consider adding aria-describedby if further descriptive text is needed).

<style>

/\* CSS Styles \*/

/\* Add your CSS styles for layout, design, and responsiveness here \*/

</style>

* **Location of error:** <head> element
* **WCAG Guideline violated:** None (CSS comment; ignores style)

<form>

<label for="search">Search: </label>

<input type="text" id="search" placeholder="Search">

</form>

...

<label for="sort"></label>

<select id="sort">

<option value="price">Sort by Price</option>

<option value="name">Sort by Name</option>

</select>

* **Location of error:** Both the search form and sort select dropdown (although noted earlier, the exact guidelines in terms of location might cause confusion)
* **WCAG Guideline violated:** 1.3.1 Info and Relationships for the sort dropdown, 3.3.2 Labels or Instructions for text inputs with placeholder but no instructions.
* **Detection Algorithm:**
  1. Locate form elements and ensure they have labels.
  2. If placeholders in text inputs are meant as labels, this might not suffice for screen readers, hence descriptive labels are required.
* **Explanation of Error:** Ensure additional text input elements leverage labels instead of relying solely on placeholders, as placeholders alone may not be accessible.

In conclusion, most of the issues revolve around:

1. Missing or empty <label> elements.
2. Use of <marquee>, which breaches guidelines regarding moving content.
3. Lack of roles and descriptive text for form elements, especially for dropdown selects and unchecked checkboxes.

New Chat (Alt-J)