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"> <meta name="viewport" content="width=device-width, initial-scale=1.0"> <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css"> <title>SugarBliss Cafe - Menu</title> <link rel="stylesheet" href="styles.css"> </head> <body> <header> <nav> <div class="logo"> <a href="index.html"><img src="logo.png" alt="SugarBliss Logo"></a> </div> <ul class="nav-links"> <li><a href="index.html">Home</a></li> <li><a href="aboutus.html">About Us</a></li> <li><a href="menu.html">Menu</a></li> <li><a href="gallery.html">Gallery</a></li> <li><a href="contact.html">Contact Us</a></li> </ul> </nav> </header> <section class="menu-section"> <form> <label for="username">Username:</label><br> <input type="text" id="username" name="username"><br> <input type="password" id="pwd" name="pwd"> <input type="radio" id="1" name="fav\_number" value="1"> <label for="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> <label for="myfile"></label> <input type="file" id="myfile" name="myfile"> <button type="submit">Submit</button> </form> <div class="container"> <h1>Menu</h1> <div class="menu-items"> <div class="menu-item"> <img src="food10.jpg" alt="Food Item 1"> <div class="item-details"> <h2>Artisanal Handcrafted Ice Cream</h2> <p class="price">$8.99</p> <p class="description">Handcrafted artisanal ice cream, from classic vanilla to exotic salted caramel swirl.</p> </div> </div> <div class="menu-item"> <img src="food9.jpg" alt="Food Item 1"> <div class="item-details"> <h2>Irresistible Cupcake Creations</h2> <p class="price">$11.99</p> <p class="description">Freshly baked cupcakes: red velvet, lemon raspberry, and more, topped with decadent frosting.</p> </div> </div> <div class="menu-item"> <img src="img3.jpg" alt="Food Item 1"> <div class="item-details"> <h2>Zesty Lemon Custard Cake</h2> <p class="price">$10.99</p> <p class="description">Dive into our heavenly lemon custard cake – a citrus-infused delight</p> </div> </div> <div class="menu-item"> <img src="img2.jpg" alt="Food Item 1"> <div class="item-details"> <h2>French-inspired Macarons</h2> <p class="price">$9.99</p> <p class="description">Indulge in our delicate French macarons, a symphony of almond meringue cookies </p> </div> </div> <div class="menu-item"> <img src="img1.jpg" alt="Food Item 1"> <div class="item-details"> <h2>Fluffy Buttermilk Pancakes</h2> <p class="price">$9.99</p> <p class="description">Light and airy, these pancakes are cooked to golden perfection, served with pure maple syrup</p> </div> </div> <div class="menu-item"> <img src="food7.jpg" alt="Food Item 1"> <div class="item-details"> <h2>Decadent New York Style Cheesecake</h2> <p class="price">$9.99</p> <p class="description">Velvety New York-style cheesecake on a buttery graham cracker crust.</p> </div> </div> <div class="menu-item"> <img src="food6.jpg" alt="Food Item 1"> <div class="item-details"> <h2>Velvet Cocoa Symphony </h2> <p class="price">$8.99</p> <p class="description">A silky, rich chocolate delight crafted from premium cocoa for an indulgent experience.</p> </div> </div> <div class="menu-item"> <img src="food5.jpg" alt="Food Item 1"> <div class="item-details"> <h2>Berrylicious Dream</h2> <p class="price">$9.99</p> <p class="description">Smooth, creamy fudge infused with ripe strawberries for a fruity, decadent treat.</p> </div> </div> <div class="menu-item"> <img src="food4.jpg" alt="Food Item 1"> <div class="item-details"> <h2>Cloud Nine Delight</h2> <p class="price">$7.99</p> <p class="description">A light, airy cake with subtle sweetness, offering a delicate and comforting taste.</p> </div> </div> <div class="menu-item"> <img src="food3.jpg" alt="Food Item 1"> <div class="item-details"> <h2>Vanilla Dream Swirl</h2> <p class="price">$6.99</p> <p class="description">Indulge in our classic vanilla ice cream, a creamy delight with a smoot</p> </div> </div> <div class="menu-item"> <img src="food2.jpg" alt="Food Item 1"> <div class="item-details"> <h2>Raspberry Bliss Tart</h2> <p class="price">$11.99</p> <p class="description">Indulge in our Raspberry Bliss Tart, where the vibrant tartness of freshly-picked raspberries</p> </div> </div> <div class="menu-item"> <img src="food1.jpg" alt="Food Item 1"> <div class="item-details"> <h2>Heavenly Cocoa Fudge Delight</h2> <p class="price">$8.99</p> <p class="description">Our fudgy brownies boast a perfect balance of rich cocoa and chewy goodness</p> </div> </div> </div> </div> </section> <footer class="footer"> <div class="footer-content"> <div class="address"> <h3>Visit Us</h3> <h2>At this address:</h2> <p>123 Cafe Street,<br> City, Country</p> </div> <div class="contact"> <h3>Contact Us</h3> <p>Phone: +1234567890<br>Email: info@sugarblisscafe.com</p> </div> <div class="social-media"> <h3>Follow Us</h3> <div class="social-icons"> <a href="https://www.facebook.com/" class="icon-link"><i class="fa fa-facebook-f"></i></a> <a href="https://www.facebook.com/" class="icon-link"><i class="fa fa-twitter"></i></a> <a href="https://www.facebook.com/" class="icon-link"><i class="fa fa-instagram"></i></a> <!-- Add more social media icons as needed --> </div> </div> </div> </footer> <div class="scroll-to-top"> <a href="#" id="scrollToTopBtn">&uarr;</a> </div> <script src="script.js"></script> </body> </html> ``` Response format: Snippet with error: … Location of error: … WCAG Guideline violated: … Detection Algorithm: … Explanation of Error: …

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

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

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

Location of error: <input type="password" id="pwd" name="pwd">

WCAG Guideline violated: **3.3.2 Labels or Instructions**

Detection Algorithm: Check if all form fields have associated labels.

Explanation of Error: The password input field is missing an associated <label> element, making it difficult for screen readers to identify the purpose of the input field.

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

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

Location of error: <label for="1"></label>

WCAG Guideline violated: **1.1.1 Non-text Content**

Detection Algorithm: Ensure all <label> elements contain descriptive text.

Explanation of Error: The label for the radio input with id="1" is empty, which does not provide necessary information to users, especially those using screen readers.

<img src="food9.jpg" alt="Food Item 1">

Location of error: <img src="food9.jpg" alt="Food Item 1">

WCAG Guideline violated: **1.1.1 Non-text Content**

Detection Algorithm: Check if alt attributes of images are descriptive.

Explanation of Error: The alt attribute is uninformative (repeats for multiple items) and does not provide a meaningful description of the image content.

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

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

Location of error: <label for="myfile"></label>

WCAG Guideline violated: **1.1.1 Non-text Content**

Detection Algorithm: Ensure all <label> elements are descriptive.

Explanation of Error: The label for the file input is empty, making it non-informative for users with screen readers.

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

Location of error: <button type="submit"></button>

WCAG Guideline violated: **2.4.4 Link Purpose (In Context)**

Detection Algorithm: Check if button text is descriptive.

Explanation of Error: The button text "Submit" is ambiguous and does not describe the function it performs; more descriptive text is needed.

<a href="https://www.facebook.com/" class="icon-link"><i class="fa fa-twitter"></i></a>

Location of error: <a href="https://www.facebook.com/" class="icon-link"><i class="fa fa-twitter"></i></a>

WCAG Guideline violated: **2.4.4 Link Purpose (In Context)**

Detection Algorithm: Ensure all links have clear purposes.

Explanation of Error: The hyperlink to social media icons lacks text and doesn't provide clear context which social platform it links to.

<section class="menu-section">

<form>

<!-- Multiple form fields here -->

<input type="submit" value="Submit">

</form>

</section>

Location of error: <form></form>

WCAG Guideline violated: **3.3.2 Labels or Instructions**

Detection Algorithm: Ensure form fields are within a form element and have submit button.

Explanation of Error: Ensure every field under form is properly labeled and submit button is descriptive, the input type submit must be matched precisely to each field it's relevant too, not grouped generically.

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

<header>

...

<nav>

...

<ul class="nav-links">

<li><a href="index.html">Home</a></li>

<li><a href="aboutus.html">About Us</a></li>

<li><a href="menu.html">Menu</a></li>

<li><a href="gallery.html">Gallery</a></li>

<li><a href="contact.html">Contact Us</a></li>

</ul>

</nav>

</header>

Location of error: <nav> element

WCAG Guideline violated: **1.3.1 Info and Relationships**

Detection Algorithm: Check if landmarks like <nav>, <header>, and <footer> have appropriate roles or ARIA labels.

Explanation of Error: The <nav> element should use ARIA roles or labels to clearly identify the navigation section for screen readers.

<img src="logo.png" alt="SugarBliss Logo">

Location of error: <img src="logo.png" alt="SugarBliss Logo">

WCAG Guideline violated: **1.1.1 Non-text Content**

Detection Algorithm: Ensure all images with functional purposes (like logos) have appropriately descriptive alt text.

Explanation of Error: While this image has an alt text, the phrase "SugarBliss Logo" could be improved for clarity by avoiding the word 'logo' if it's redundant.

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

Location of error: <input type="password" id="pwd" name="pwd">

WCAG Guideline violated: **3.3.2 Labels or Instructions**

Detection Algorithm: Ensure every form input field has an associated label element.

Explanation of Error: The password input is missing an associated <label> element for better screen reader support.

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

Location of error: <label for="1"></label>

WCAG Guideline violated: **1.1.1 Non-text Content**

Detection Algorithm: Ensure all <label> elements contain meaningful text.

Explanation of Error: The label for the radio button with id="1" is empty, providing no context.

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

Location of error: <label for="myfile"></label>

WCAG Guideline violated: **1.1.1 Non-text Content**

Detection Algorithm: Ensure all <label> elements contain meaningful descriptive text.

Explanation of Error: The corresponding <label> for the file input is empty, making it difficult for screen readers to understand the field’s purpose.

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

Location of error: <button type="submit"></button>

WCAG Guideline violated: **2.4.4 Link Purpose (In Context)**

Detection Algorithm: Ensure button elements have meaningful and specific text.

Explanation of Error: The button text "Submit" is generic and not descriptive enough about the button's function.

<a href="https://www.facebook.com/" class="icon-link"><i class="fa fa-twitter"></i></a>

Location of error: <a href="https://www.facebook.com/" class="icon-link"></a>

WCAG Guideline violated: **2.4.4 Link Purpose (In Context)**

Detection Algorithm: Ensure all interactive elements (links/buttons) have accessible and meaningful names and context.

Explanation of Error: The social media links lack text, making it unclear where the links lead for screen readers.

<div class="item-details">

<h2>Artisanal Handcrafted Ice Cream</h2>

<p class="price">$8.99</p>

<p class="description">Handcrafted artisanal ice cream, from classic vanilla to exotic salted caramel swirl.</p>

</div>

Location of error: <h2></h2>

WCAG Guideline violated: **1.3.1 Info and Relationships**

Detection Algorithm: Assess document outline for meaningful, hierarchical heading structure.

Explanation of Error: The headings used within the menu-item class ( <h2>) should maintain a logical structure relevant to the overall document outlining to ensure navigability.

<h2>At this address:</h2>

Location of error: <h2></h2>

WCAG Guideline violated: **1.3.1 Info and Relationships**

Detection Algorithm: Identify heading levels for logical structure clarity.

Explanation of Error: The heading "At this address:" immediately following another heading (h3) disrupts the hierarchical structure of the document outline.

<script src="script.js"></script>

Location of error: <script src="script.js"></script>

WCAG Guideline violated: **4.1.2 Name, Role, Value**

Detection Algorithm: Ensure scripts do not interfere with the accessibility of the page content unless necessary.

Explanation of Error: If an interactive script creates new content, ensures the new content has appropriate ARIA roles, names, and values for accessibility compliance.

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

<section class="menu-section">

Location of error: <section class="menu-section">

WCAG Guideline violated: **1.3.1 Info and Relationships**

Detection Algorithm: Verify that all sections are appropriately labeled for their roles.

Explanation of Error: The <section> element should include an aria-label or aria-labelledby attribute to provide more context to assistive technologies.

<div class="menu-item">

<img src="food10.jpg" alt="Food Item 1">

Location of error: <div class="menu-item">

WCAG Guideline violated: **1.1.1 Non-text Content**

Detection Algorithm: Ensure alternative text for images is unique and descriptive.

Explanation of Error: The alt text "Food Item 1" is repeated for multiple images, providing no unique description for each item.

<form>

...

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

</form>

Location of error: <button type="submit">Submit</button>

WCAG Guideline violated: **3.3.2 Labels or Instructions**

Detection Algorithm: Verify all form controls have visible labels or instructions.

Explanation of Error: The form's submit button "Submit" could be more descriptive, such as "Place Order" or "Send Inquiry".

<div class="address">

<h3>Visit Us</h3>

<h2>At this address:</h2>

<p>123 Cafe Street,<br> City, Country</p>

</div>

Location of error: <h3>Visit Us</h3> and <h2>At this address:</h2>

WCAG Guideline violated: **1.3.1 Info and Relationships**

Detection Algorithm: Verify logical heading order in the document structure.

Explanation of Error: The heading structure should not skip levels (e.g., from <h3> to <h2>) as this disrupts logical order.

<div class="social-icons">

<a href="https://www.facebook.com/" class="icon-link"><i class="fa fa-facebook-f"></i></a>

<a href="https://www.twitter.com/" class="icon-link"><i class="fa fa-twitter"></i></a>

<a href="https://www.instagram.com/" class="icon-link"><i class="fa fa-instagram"></i></a>

</div>

Location of error: <a href="https://www.facebook.com/" class="icon-link"><i class="fa fa-facebook-f"></i></a>

WCAG Guideline violated: **2.4.4 Link Purpose (In Context)**

Detection Algorithm: Ensure all links have text or title attributes describing their purpose.

Explanation of Error: The social media icons should include text or aria-label to describe the link destination, making it accessible for screen readers.

<div class="scroll-to-top">

<a href="#" id="scrollToTopBtn">&uarr;</a>

</div>

Location of error: <a href="#" id="scrollToTopBtn">&uarr;</a>

WCAG Guideline violated: **2.4.4 Link Purpose (In Context)**

Detection Algorithm: Ensure all interactive elements have accessible names or descriptions.

Explanation of Error: The "scroll to top" anchor should have clear, descriptive text or aria-label for better accessibility.

<meta name="viewport" content="width=device-width, initial-scale=1.0">

Location of error: <meta name="viewport" content="width=device-width, initial-scale=1.0">

WCAG Guideline violated: **1.4.4 Resize Text**

Detection Algorithm: Ensure that the viewport meta tag allows for zooming capabilities for accessibility.

Explanation of Error: The current meta tag does not disable zoom, but if it did (maximum-scale=1.0), it would violate guidelines related to text resizing.

<img src="food3.jpg" alt="Food Item 1">

Location of error: <img src="food3.jpg" alt="Food Item 1">

WCAG Guideline violated: **1.1.1 Non-text Content**

Detection Algorithm: Ensure alternative text for images is accurate and non-repetitive.

Explanation of Error: The repeated use of general alt text for images like "Food Item 1" does not appropriately describe each unique image.

<head>

...

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">

...

</head>

Location of error: <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">

WCAG Guideline violated: **4.1.2 Name, Role, Value**

Detection Algorithm: Ensure the use of icon fonts does not obscure link purpose and applicability.

Explanation of Error: When using Font Awesome icons, ensure that meaningful text or appropriate attributes (e.g., aria-hidden="true", aria-label) are provided to convey the icons' meaning.

<h1>Menu</h1>

Location of error: <h1>Menu</h1>

WCAG Guideline violated: **2.4.6 Headings and Labels**

Detection Algorithm: Ensure heading levels appropriately reflect their importance and nesting within the content.

Explanation of Error: While the <h1> level is appropriate here, ensure that all subsequent headings logically follow without skipping levels to maintain a hierarchical structure.

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

Location of error: <button type="submit">Submit</button>

WCAG Guideline violated: **2.5.3 Label in Name**

Detection Algorithm: Verify that a button's label or name properly describes its action.

Explanation of Error: The button text "Submit" should be more contextualized like "Submit Form" or "Place Order" for better specificity and matching to voice commands.

<i class="fa fa-facebook-f"></i>

Location of error: <i class="fa fa-facebook-f"></i>

WCAG Guideline violated: **1.3.1 Info and Relationships**

Detection Algorithm: Ensure icon elements (e.g., <i>, <span>) include accessible names or labels when used as interactive elements.

Explanation of Error: The Font Awesome icons should have associated text or aria-label attributes to be properly recognized by screen readers.

New Chat (Alt-J)