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BSINFO2D

Documentation: Astral Express Website with Active Indicator Feature

Purpose:

The Astral Express Website is a creative, interactive platform inspired by the *Honkai: Star Rail* universe, designed to provide a seamless user experience with a focus on accessibility and functionality. The website serves as an immersive hub, offering information about the Astral Express, character-themed brews, and events, while also featuring sections such as the gallery, reviews, and contact details.

A key feature of the website is the **active indicator in the navigation bar**. This allows users to easily identify their current location within the website, preventing confusion when navigating between different sections. The primary goal of the active indicator is to enhance user experience by providing clear visual feedback on which page they are currently viewing.

Target Audience:

The target audience for the **Astral Express Website** includes:

1. **Fans of Honkai: Star Rail and Zenless Zone Zero:** These users are interested in learning more about the characters, lore, and themes from the *Honkai: Star Rail* universe and its associated media.
2. **Gamers and Pop Culture Enthusiasts:** People who enjoy science fiction, fantasy, and gaming content will appreciate the references to the *Honkai: Star Rail* universe.
3. **Web Design Enthusiasts and Developers:** The website also serves as a practical demonstration of basic web design principles, such as responsive navigation, floating buttons, and interactive content.
4. **General Public Interested in Interactive Websites:** The website offers a user-friendly interface, which can appeal to anyone looking for an engaging and visually pleasing experience.

Challenges Encountered:

1. **Dynamic Active Indicator Logic:** One of the biggest challenges in implementing the active indicator was ensuring that it dynamically reflects the current page the user is on. This required careful handling of the page's URL, extracting the file name, and comparing it against the `data-page` attribute in each link. Ensuring that the active indicator appears correctly as users navigate through different pages and reload the

website required an understanding of both the browser's default behavior and how to manipulate it using JavaScript.

2. **Navigational Consistency:** Another challenge was maintaining consistent navigation across multiple pages. Since the active indicator is crucial for guiding users through the website, ensuring that the navigation bar's styling and layout remained consistent across all pages, while also reflecting the correct active state, demanded careful attention to both HTML structure and CSS styling. As pages are loaded dynamically or by refreshing, ensuring the correct styles and indicators were consistently applied was key.
3. **Responsive Design and Layout:** Designing the website to work well across various screen sizes, from desktop monitors to mobile phones, posed a challenge. The navigation bar and active indicator needed to adapt gracefully to different screen widths, ensuring that the site remained visually appealing and functional on all devices. Achieving this balance required attention to detail in the use of CSS media queries and ensuring that interactive elements, like the floating menu button, were correctly positioned without overlapping other content.
4. **Integration of JavaScript for Interaction:** Implementing the interactive aspects of the floating button and active indicator required JavaScript. One of the challenges was ensuring that the script ran efficiently without causing unnecessary reflows or performance issues, especially on mobile devices. Another challenge was ensuring smooth redirection and preventing the active state from being lost when users clicked on other sections or reloaded the page.
5. **User Experience (UX) Design:** Finally, the most important challenge was designing the website to be intuitive and user-friendly. While the active indicator was a step toward improving navigation, there was a constant need to ensure that all interactive elements were intuitive and that the page transitions were smooth. For example, ensuring that the active indicator's style was clear enough to be distinguishable from other links without overwhelming the user's attention was crucial.

Conclusion:

In conclusion, the **Astral Express Website** is an engaging, dynamic platform that provides users with an interactive experience focused on navigation clarity and ease of use. The active page indicator, alongside other features, enhances the user's journey through the site, allowing them to clearly identify which section of the website they are currently on. Despite challenges in dynamic page handling, responsive design, and JavaScript integration, the website successfully meets its purpose of offering an immersive and user-friendly experience. By addressing these challenges, we were able to create a visually appealing and functional website, which will engage fans of *Honkai: Star Rail*, gamers, web developers, and general users alike.