SPRINGFIELD PET RESCUE

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INTERFACE DESIGN GUIDELINES:

Effective User Interface (UI) design is essential for creating a user-friendly application.

Different age groups, like adults and children, have unique needs and preferences.

Good UI design enhances usability and accessibility, ensuring all users have a positive experience.

DESIGN GUIDELINES FOR ADULTS:

- Text Readability: Use clear fonts, appropriate font sizes, and sufficient color contrast

- Consistency: Maintain consistent design elements.

- Interactive Elements: Buttons and links should be easy to identify and use.

- Navigation: Simple and intuitive with a clear structure.

- Content Presentation: Organized in a logical manner with headings subheadings.

DESIGN GUIDELINES FOR CHILDREN:

- **Engaging Design:** Use bright colors, animations, and interactive elements to keep children engaged.

- **Simplicity:** Simple language and instructions.

- **Visual Aids:** Use icons and images to support text and instructions.

- **Accessibility:** Consider cognitive and motor skills development

- **Feedback:** Immediate and positive feedback for actions taken.

IMPORTANCE OF DESIGN FOR USERS

- **Accessibility: Ensures inclusivity for all users, including those with disabilities.**

- **Usability: Improves ease of use, reducing frustration and increasing satisfaction.**

- **Aesthetics: Attractive design can enhance user experience and engagement**

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- **Functionality: Good design supports the functionality of the application, ensuring it meets user needs.**

ACCESSIBILITY AND ITS IMPACT:

- Visual Impairments: Screen readers, high contrast modes, and text resizing.

- Hearing Impairments: Subtitles, transcripts, and visual alerts

- Motor Disabilities: Keyboard navigation, voice commands, and larger clickable areas.

- Cognitive Disabilities: Simplified content, consistent navigation, and clear instructions

DESIGN EXAMPLES FOR ACCESSIBILITY

- **Alt Text:** Descriptions for images to aid visually impaired users.

- **Keyboard Shortcuts:** Enhances navigation for users with motor disabilities.

- **Color Contrast:** Improves readability for users with visual impairments.

- **Simplified Layout:** Benefits users with cognitive disabilities by reducing complexity.

CURRENT INTERFACE DESIGN GUIDELINES FOR MOBILE DEVICES

- Touchscreen Optimization: Large buttons and touch-friendly design.
- Responsive Layouts: Adapt to different screen sizes and orientations.
- Minimalism: Simple and clean design to enhance performance and usability.
- Performance: Fast loading times and efficient resource use.

INTERFACE DESIGN FOR TABLETS

- **Larger Screens: Utilize extra space effectively without cluttering.**

- **Landscape and Portrait Modes: Ensure usability in both orientations.**

- **Multi-Touch Gestures: Support for pinch, swipe, and other gestures.**

- **Split-Screen Multitasking: Enhance productivity by allowing multiple apps to be used simultaneously.**

INTERFACE DESIGN FOR DESKTOP

- **Full-Screen Experience:** Utilize the entire screen for a rich user experience.

- **Mouse and Keyboard:** Design for precise cursor control and keyboard shortcuts.

- **High Resolution:** Optimize for higher resolution displays.

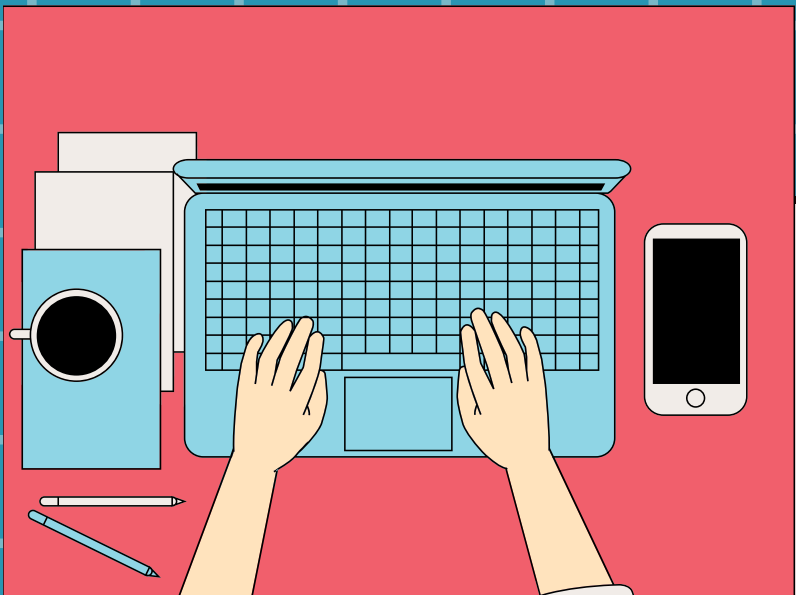- **Complex Interactions:** Support for more complex interactions and workflows.

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- W3C, 2018. Web Content Accessibility Guidelines (WCAG) 2.1. [online] Available at: <u>A median is the middle value in a set of numbers. To find the median, arrange all of the values in order from lowest to highest. Then, find the middle value. If there is no single middle number, you can find the average of the two middle numbers.</u> [Accessed 16 July 2024].

- Horton, S. and Quesenbery, W., 2013. A Web for Everyone: Designing Accessible User Experiences. Rosenfeld Media.

- ISO, 2010. ISO 9241-210:2010 Ergonomics of human-system interaction -- Part 210: Human-centred design for interactive systems. [online] Available at: https://www.iso.org/standard/52075.html [Accessed 16 July 2024].

GIT HUB LINKS

- https://github.com/gayashihasinika/woocommerce.git

- https://github.com/gayashihasinika/springfieldpetrescue-php-.git

- https://github.com/gayashihasinika/springfieldpetrescue-react.git

THANK YOU !!!