

NAME; TANKISO MASOEBE

HUMAN COMPUTER INTERACTION WEEK6

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1.

In a mobile banking app development scenario, a team is tasked with designing a user-friendly interface for customers to check balances, transfer funds, and pay bills. The designers prioritize consistency, ensuring buttons, icons, and colors are uniform across all screens. They implement feedback by showing confirmation messages when a transaction is completed or an error occurs. Simplicity is emphasized by using clear labels, minimal text, and intuitive navigation, so even first-time users can operate the app efficiently. The team conducts user testing to observe how customers interact with the interface, noting areas where confusion arises, such as unclear icons or crowded screens. Adjustments are made based on these insights, improving usability. This scenario highlights the importance of thoughtful interface design in IT, as it directly impacts user satisfaction, efficiency, and overall adoption of digital services. A well-designed interface reduces errors and enhances the user experience.

2.

Accessibility in interface design ensures that digital systems, applications, and websites can be used by people with diverse abilities, including those with visual, auditory, motor, or cognitive impairments. Its role is to make technology inclusive, allowing all users to access information and perform tasks effectively. Techniques include providing alternative text for images, keyboard navigation for users who cannot use a mouse, captions for audio and video content, and high-contrast visual elements for better readability. Accessibility also involves designing clear layouts, logical navigation, and adaptable font sizes to accommodate different user needs. In IT, prioritizing accessibility improves usability, expands the potential user base, and ensures compliance with legal standards, such as the Web Content Accessibility Guidelines (WCAG). By integrating accessibility principles early in the design process, developers create interfaces that are not only usable for people with disabilities but also more efficient and user-friendly for everyone, enhancing overall digital inclusivity and satisfaction.

3.

In this exercise, I designed a mobile app mockup using Balsamiq, focusing on a simple task management application. I began by outlining the main screens: login, dashboard, task list, and task creation. Using Balsamiq's drag-and-drop elements, I added buttons, input fields, and navigation menus, ensuring consistency and clarity across screens. The tool allowed me to quickly experiment with layouts without worrying about coding, making it easy to visualize user interactions. I included visual cues, such as icons and color highlights, to guide the user's attention and provide immediate feedback for actions like adding or completing a task. During this process, I realized the importance of simplicity, as crowded screens reduced readability and usability. Reflecting on the experience, Balsamiq helped me understand the early stages of interface design, emphasizing planning, usability, and user flow before implementation, which is essential in IT projects to ensure an effective and user-friendly product.

4.

The design guideline flowchart in Draw.io illustrates the process of creating a user-friendly interface. It begins with Requirement Analysis, where designers gather user needs and system goals. Next, Planning & Wireframing organizes the layout, defining navigation and key components. The flow then splits into three main guidelines: Consistency, Feedback, and Simplicity. Consistency ensures uniformity in elements, reducing user confusion. Feedback provides real-time responses to user actions, such as confirmations or error messages. Simplicity focuses on clear layouts, minimal text, and intuitive navigation. Following these guidelines, the process moves to Prototyping, where interactive mockups are created, allowing for user testing. Evaluation & Refinement comes next, using feedback to adjust design elements for better usability. Finally, the flow ends with Implementation, where the design is developed into a functional interface. This flowchart highlights how structured adherence to design guidelines in IT enhances usability, accessibility, and overall user satisfaction, creating efficient and effective digital products.

Design Guideline Flowchart

