

ABSTRACT

The rapid advancement of information technology has significantly impacted information dissemination through websites. Telkom University, through its S1 Software Engineering program website, is committed to supporting various academic and non-academic activities. However, accessibility remains a significant challenge, especially for individuals with low vision disabilities. This research aims to enhance the accessibility of the S1 Software Engineering website by designing and implementing a Call and Response System using the User-Centered Design (UCD) method. The Call and Response System is designed to provide direct verbal feedback to users whenever they interact with interface elements. For instance, when a user selects a button or a link, the system provides verbal confirmation of the function of that element, helping users understand and confirm their actions. The UCD method is applied throughout the design process by identifying user needs, creating wireframes and UI mockups, and developing an interactive prototype for testing. Evaluation is conducted through usability testing and user satisfaction measurement using the System Usability Scale (SUS). The evaluation results show an increase in the SUS score from 55.5 to 74.07 after implementing the Call and Response System, indicating that the improved interface design better meets the needs of low vision users and enhances the accessibility and usability of the website.

Keywords: Website accessibility, interface design, low vision, call and response system, user centered design, system usability scale

