Abstract

Attention to increasing mortality rates makes the world worry about the spread of HIV / AIDS. Data from the Health Office shows that in early 2019 new cases were discovered that those infected with HIV were people with visual impairment or blind. Therefore, since adolescence it is very important to provide education to increase awareness of the dangers of HIV / AIDS and consultation services aimed at increasing the ability to make decisions about issues related to HIV & AIDS. At this time, visual impairment or blind people are accustomed to operating mobile-based applications with the help of screen readers to support their activities. But mostly, not all educational applications about HIV/AIDS can be used by visual impairment or blind people because they are build with more universal designs and complex interactive features. Therefore, special considerations are needed in designing the user interface as a media for HIV / AIDS education and consultation for blind people to ensure their suitability and accessibility. This study uses the User Centered Design method that focuses on the needs and characteristics of users, then usability evaluation was done in 2 stages by using the Heuristic Evaluation method. Improvements made in the evaluation phase 1 affect the decrease in problem findings and the average of severity ratings become 0, the number indicates that no usability problems were found. So that the results of the user interface design can be used easily by teenagers with visual impairments because it meets all the heuristic guidelines for accessible app.

Keywords: ***HIV / AIDS, visual impairment, user interface, user centered design, heuristic evaluation***