

Abstract

Culture is a heritage that needs to be preserved and passed on to the future generations. Cultural preservation has to be held for everyone without exception even for person with disability, such as the deaf. Now education can not only be done using traditional way such as books, but it can be done using an application on a smartphone. The use of smartphone could make the process of education to be more efficient and effective, however not every user interfaces (UI) could meet the needs and limitations for the deaf. As with the sample of the existing application that has been tested with USE Questionnaire, the application is disadvantageous, not satisfying, difficult to use, and difficult to learn. Therefore to design a user interface that meets the users' need, we could implement user-centered design (UCD) to this research. The user interface that has been created was measured its usability by using USE Questionnaire method. The result of the usability testing that has been conducted is 82.75%. This shows that the UI is useful, satisfying, easy to use and easy to learn.

Keywords: deaf children, user-centered design, USE Questionnaire