ABSTRACT

Deaf or hard of hearing referring to hearing disorders where the sufferer can only hear a very little or cannot hear a sound at all, so they use sign language to communicate. Based on observation and interview results held at SLB-B Sukapura Bandung, some students have not mastered sign language yet, even though when learning at school teachers deliver lesson in sign language so that there is a gap where children cannot follow the lessons properly. Difficulties experienced in mastering sign language are the absence of sign language learning subjects at school and the lack of existing learning media so that sign language learning media that can be accessed inside and outside school is needed. Therefore, this study seeks to find solutions to existing problems by designing sign language learning media for deaf children. In order for the system to be build according to the needs of deaf children, this study focuses on designing the User Interface (UI) using the User Centered Design (UCD) method so that the UI design is focused on the user. The results of this study indicate that the developed UI of Android-based sign language learning application has an average value of 95 of the 11 QUIM usability criteria. The results presented in this study can facilitate the increase in the user persona of sign language learning applications resulting from the implementation of the UCD method.

Keywords : deaf, sign language, learning media, android, usability.