

Abstract

Communication is an important human need as a social being. Based on observations made, deaf people have difficulty communicating with normal people because generally normal people speak too fast and long. Deaf people prefer sign language. This study aims to produce a design solution in the form of an interface model that can meet the needs of deaf people to understand the meaning of normal people's words using the User Centered Design (UCD) method. With this interface model, deaf people can translate normal people's speech into core/short sentences or BISINDO, save, view history, and delete recordings. This study evaluates the usefulness of the resulting interface prototype. The usability evaluation was carried out using the System Usability Scale (SUS) with the average value of the adjective scales of 74.79 in the GOOD category and the acceptability range was still acceptable. This means that the design solution for this application is in accordance with the needs of users who are deaf.

Keywords: interface, deaf, usability, user centered design