Abstract

Rapid technological developments currently. This is due to the emergence of various technologies which can provide convenience for the community. Given the wide variety of technology, There are those with special needs who can't feel the effects of the use of these technologies. we can said with the limitations of their disabilities make them unable to properly utilize evolving technologies who has a progress in every time. As well as communicate and interact with other in their scope, the disability may still have difficulty with the use of these technologies. For example, in sending a message to someone else, disability in vision impaired or can be called Blind, still have difficulty in using of the device or media to send a message. As with the use of touchscreen devices currently is one of the technological developments that are embedded in various devices such as a smartphone, tablet or gadget and form a qwerty keyboard which is generally used on peripheral devices. With the problems in the use of such a device or that media, visually impaired people prefer to meet directly to other or using the telephone for calling and sending a message. To reduce this limitations, we build an application named "E-Braille". E-Braille is a mobile application using a touchscreen device that helps visually impaired people to communicate and interact with the people around him. By E-Braille user will be typing a word on a wide range of smartphones and the words will be putting out by sound. In this application, communication and interaction of the blind type in a word and send a text message or SMS with the electronic media.

Keywords: E-Braille, *mobile, smartphone, touchscreen device, braille*