

ABSTRACT

Blindness is a condition where humans cannot see or is commonly called blindness. The condition of the blind is not experienced by all humans. So, it makes relatives or families of those with visual impairment worry if their relatives or families who experience blindness are carrying out an activity without supervision. Therefore, smart aid for the visual impaired with text to speech implementation and mobile application.

The tools contained in the text to speech implementation consists of the Raspberry Pi and SIM 808 Module. Where as application that are designed based on android. This tool serves to help the blind in communication through short message with the family. The mobile application designed will be used by families of blind people to find out the location of the presence of the visually impaired if they are carrying out daily activities.

This research shows that smart aid for the visual impaired with text to speech implementation and mobile applicaiton can help and facilitate blind people in carrying and families feel safe if the blind are doing their daily activities.

Keyword : visual impairment, text to speech, mobile application