## A Text-to-speech Mobile Application for visually impaired people (READ2U)

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## **Abstract**

Generally blind or visually impaired will be taught to use braille as a medium for reading, writing, and learning through other media from audio, electronic media, or computer and enlarged fonts for those who can see blurry, Therefore, to help people who are visually impaired Able to help in cognition of information easily and quickly, this project presents a text-to-speech reading app for the visually impaired. The application will send and receive images to analyze to find the text on the image. It uses The Tesseract OCR algorithm to extract text from images. The extracted message will then reply to the message to the application. For the application to call the Text to speech function, a text-to-speech system helps to read the text for the visually impaired to hear the text.

**Keywords:** Visually impaired people, Optical Character Recognition(OCR), Tesseract OCR, Text-to-speech(TTS)