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(57) Abstract :
 ABSTRACT In the world, there are millions of people who are blind. The World Health Organization (WHO) estimates that 1.3 billion people worldwide have some form of visual impairment, with 36 million experiencing total blindness. For people with vision impairment, reading is one of the most necessities. A mechanism that enables blind people to recognize obstacles, read labels or particular currencies, and read written, typed, or printed text has been developed by a number of researchers. Nowadays, everyone uses electronic books (or e-books), especially on mobile devices. There are two types of electronic books: EPUB and PDF. Because EPUB files are flexible and allow for font, size, and color adjustments, they are very helpful to people who are visually impaired. On the other hand, PDF files are more static. Because the font size cannot be changed, reading on an e-reader is much more difficult or even impossible. There are many PDF to EPUB converters on the market right now. However, they are expensive, online, and the improper alignment makes the content unreadable. Some of the private businesses in our study may have charged more per page to convert PDFs to EPUB format. Our solution focuses on improving the readability of the content by converting PDF to EPUB offline. Additionally, we created a PDF Editor to edit text in PDF files, a PDF to Audio Converter to convert PDF files into Mp3 format, which is helpful for people with visual impairments, and an image converter to change problematic images into ones that are easier for people with color blindness to view. We have done this by using Python image processing software and tools, such as EbookLib, fitz, PyPDF2, PyQt5, PyQuery, Tkinter-Designer, OpenCV, and gTTs (Google Text-to-Speech) engine.

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