

## **Abstract**

Visual impairment causes blind people hampered in getting an information, especially for what contained in conventional printed book. Currently, blind people got an information using media including Braille book and speaking book. But those media is available in a quantity that not as much as conventional printed book, so the information that they got is limited.

In this final project designed an application program to help blind people getting an information in conventional printed book using hard-text to voice technology and portable scanner device. The program application runs under desktop platform and named BREAD (Blind Reader). BREAD will scan an image using portable scanner, then the image will processed into digital text and convert it into voice.

BREAD already tested by three BiliC patients with visual impairment (a.k.a blind), the test results conclude that BREAD application can provide a new breakthrough for visual impairment to get information through conventional printed book, so that the knowledge gained becomes more extensive.

keyword: *blind people, bread, conventional printed book, hard-text to voice, portable scanner*