

ABSTRACT

Health is one of important components to support human being in doing their jobs and responsibilities. Its important role makes people try to live healthy. One aspect that becomes one's concern is about maintaining healthy food. In a modern era, foods are served to fulfill people's daily consumption in practical ways. Many of those instant foods are made with some ingredients that are not suitable for particular kind of people with certain disease. Even the ingredients are stated on the packaging products, but there are no informations about their eligibility so that people with certain disease will experience some bad effects to their health. With the reason above, it needs to have a tool to help people to know what they will eat before they consume it.

In this Final Project, the Author made an application for android for doing so. The users can take a photograph of the ingredients in food packaging and get informations about the product's eligibility according to users' health problem.

With this application, Image processing of the text on product's packaging is executed with the help of Tesseract Optical Character Recognition (OCR) Engine with the maximum accuracy of 67,5% and is post-processed using Levensthein algorithm with the accuracy of 80,5%.

Key Words: Image Processing, android, Tesseract OCR, word-correction, Levensthein