Abstract

Automated Text Summarization is the process of summarizing the text into shorter versions. There are two types of text that can be an input the system, there are single-document and multi-document. While summarizing method that can be used are abstraction and extraction.

In this final project is implemented summarizing extraction using the shortest path algorithm. This method is based on a graph, where the sentence is the point (node) and the relationship between sentences is side (edge). A summary will be obtained by finding the shortest path in a graph which has calculated the cost of each side. Then the sentences in the text that included in a shortest path, will be extracted as a summary.

The test on this system is using evaluation ROUGE. In the test results indicate that early (j) in Indonesian language news text has value 2 for index sentence (j) is less than equal to 5 and the value 1 for the others. The summary of the original text and modified text produce nearly same accuracy for each scenario.

Keywords: *shortest path, text summarization*, *stopword, weighted directed graph.*