Abstract

Text Summarization is a method to perform automatic summarization in order to get a text or reading a shorter or condensed. By doing summarization of text or readings are very helpful in getting the information quoted in the text or reading a text for example in the field of sports. Summary of the results of the text in the field of sports continues to have a word - a word related appearance and in the development of many sports fields. Therefore it has a lot to do with the method of summarization such as TF (*Term Frequency*), RT (*Related Term*) and *Fuzzy System*.

This final project will be approached Information Retrieval (IR) to implement *Fuzzy Systems* method based on *Related Term* and *Term Frequency*. Text of summarization or readings on the system will get the final value of a word or term with *Fuzzy System*, based on the value of a word or term that will be done to determine the sentence filter the results summary.

Testing will be done by the user judgment method, the results of system summaries compared to the results of a summary of the respondents. Based on the comparison will be obtained value of *precision* (P), *recall* (R) and f - *measure* (F). The test results will show *fuzzy rules* that meet the characteristics of the system so as to produce a quality summary.

Keywords: *Text Summarization, Term Frequency, Related Term, Fuzzy Systems, Information Retrieval*.