

Abstract

The Qur'an is a holy book that is used as a guide for the life of Muslims to be understood its meaning and live in life. The large number of letters, verses, and words in the Qur'an will make it difficult to manually search for words. The current search system for the Al-Qur'an verse is an exact string matching search. So that if there is an error writing the keyword, the search system cannot find the term. Based on these problems, a search system for the verses of the Quran was created which could handle variations of keywords by utilizing Phonetic String Matching. Double Metaphone algorithm is used to find words that are phonetically similar and to measure the similarity level of the word Jaro Winkler algorithm is used. A fairly good accuracy value is obtained with the mean average precision system value of 0.84 with a 0.93 recall and a correlation of 0.89 on a value scale of 0 to 1, and the correlation value is 0.89 on a scale of -1 to 1.

Keywords: al-qur'an, search system, phonetic similarity, double metaphone, jaro winkler

