

## Abstract

Searching for words in Al-Quran manually can not give an optimal result. Searching text automatically can be done by concordance. Concordance showing search results that exactly same with query in the form of list that contain sentence sections of the query, so it can't show the verse translations that similar to query. This searching system is combined with Longest Common Subsequence (LCS) algorithm to calculate similarity between query and verse translation, also rank the verses that are similar to query. So far, the existing app only searches from the words that is provided by the system and applied on word translation in a verse (not all of verse translation). Concordance is applied on English verses translation which consists of lemma and word/phrase concordance, and synonym for additional concordance. This Final Project shows the searching system by using LCS giving relevant search results. System obtains the average performance value of  $F_1$ -Measure with 81,44% from lemma concordance and 79,46% from word/phrase concordance.

Keywords: Al-Quran, concordance, searching, longest common subsequence