

Abstract

Stemming is the one of method which is used to searching a root from the word that has been changed addition of affixes. On the root stemming, the algorithm that is used are Ahmad Yusoff Sembok and Jelita Asian. This algorithm is selected because it can be used in Indonesian language and used root dictionary to check. In this case, will be attributed to find a root and then it will be used to search a ayat Al Quran which related with that root. The main difference is on Ahmad Yusoff Sembok algorithm, particle removal process it done at prefix. But on Jelita Asian algorithm particle removal process it done at the suffix. In both algorithms have specific rules, that are particle removal process it done at first prefix when finding certain combinations of prefixes and suffixes. Hadith is used for testing is the Hadits Sahih Al-Bukhari chapter relevation. Based on testing, Jelita Asian algorithm is better than Ahmad Yusoff Sembok algorithm because it has bigger Recall value so it can show more verses which is relevant with the root.

Keyword : *Stemming, Ahmad Yusoff Sembok, Jelita Asian, al-Quran*