

Abstract

Nahwu and sharaf are branch of Arabic language. Nahwu is knowledge about letter/character, word, and sentence. Word class/word type that commonly known is letter, noun, and verb[16]. Nahwu has relevance with sharaf, knowledge about word shape and its changing by adding or subtracting the letter[3]. By studying Arabic language, it will very helpful to understand the meaning of Alqur'an.

Stemming is a process to find stem from word by removing all suffixes and prefixes. Stemming is used to replace word shape to stem according to good and appropriate morphology[11]. Pattern-based Stemmer is algorithm implementation to find stem from Arabic word that implement morphological analysis technique dan affix removal technique. By referring to pattern in system, then stem and word class can be decided.

Testing is done to know the effect of the number of terms, patterns, and rules that saved in system to system's performance. The result shows that the best performance happened by saving more free-affix pattern, saving more rule to decide word class, and adding proses to check the affix erasing in system.

Keywords: *Arabic text, stemming, stem, word class.*