

SOFTWARE REQUIREMENTS STATEMENT AMBIGUITY IDENTIFICATION SYSTEM USING NATURAL LANGUAGE PROCESSING

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ABSTRACT

In software development, some software developers have difficulty identifying ambiguity in the requirements statement. Identification of ambiguity has an important role in software development because it will determine the quality of the software being developed, if there is an ambiguous statement of requirements it can delay processing time and increase costs in developing software. The purpose of this study is to design an application that is used to identify the structural ambiguity of software requirements statements. The output of this research will be an android-based application that can be used by software developers to identify the structural ambiguity of requirements statements in the SKPL (Software Requirements Specification) document. The method used is natural language processing. Identification results were evaluated using the Kappa Index to obtain a reliability index value (Kappa) of 0.99 (Almost Perfect).

Keywords: software requirements specification, natural language processing, part of speech, tags, regular expression parsing, structural ambiguous pattern, flask framework, kappa index, system