

ABSTRACT

Question Answering System is a system that allows users to express their information needs in a more specific and natural, in the form of natural language question. Question Answering System does not return a list of documents that must be filtered by the user if the documents containing the appropriate answer but returns quoted text or even a phrase as an answer. The system, known as Question Answering (QA) system is to allow users to enter a query in natural language, the language used in everyday conversation, and get an answer in a nutshell, or even accompanied by a sentence sufficient to support the correctness of the response.

This study aims to create a natural language processing applications for the domain of Christian songs. The process of making the application was preceded by the creation of grammar. which the formation of alternate language query sentences are realized in a production rule. The production rules for domain Question Answering System for Christian song begins with a symbol that is `pengganti_query` defined as `kata_tanya` `bagian_ditanyakan` and `bagian_diketahui`.

This application is created using components-components of language processing, namely Scanner and Parser. Scanner duty lexical analysis, which identifies all scale build up a language in a source program. While on duty Parser and verify the sequence of tokens that are formed by the lexical analysis. Programming language to be used is Visual Basic 6.0 programming language that assisted with Microsoft SQL server 2000 database handling.

From the design and testing of question answering system for the domain of Christian songs, Question Answering System which is able to answer a single question with a success rate reached 83.3%.

Keywords: Question Answering System, production rules, Scanner, Parser.