

Rio Rizky Rainey Ferbiansyah, 2015. *Question Answering System Berbahasa Indonesia Menggunakan Metode Pattern Based Approach (Studi Kasus Bahan Ajar Mata Kuliah Sistem Operasi Prodi S1 Sistem Informasi Universitas Airlangga)*. Skripsi ini dibawah bimbingan Drs. Kartono, M.Kom dan Badrus Zaman, S. Kom, M. Cs. Program Studi S1 Sistem Informasi. Fakultas Sains dan Teknologi, Universitas Airlangga.

ABSTRAK

Tujuan dari penelitian ini untuk membantu pengguna dalam mencari informasi yang dibutuhkan dengan masukan berupa pertanyaan. Untuk mendapatkan jawaban dari pertanyaan menggunakan *Question Answering System*. Pada penelitian kali ini *Question Answering System* dirancang dan dibangun menggunakan metode *Pattern Based Approach*.

Question Answering System ini dilakukan melalui empat tahap. Tahap pertama yaitu pengumpulan dokumen bahan ajar mata kuliah Sistem Operasi di Program Studi S1 Sistem Informasi Universitas Airlangga. Tahap kedua yaitu perhitungan nilai bobot tiap dokumen dengan metode *Term Frequency-Inverse Document Frequency* yang selanjutnya akan digunakan sebagai referensi pada proses *search engine*. Tahap ketiga yaitu analisis *question answering system* menggunakan metode *pattern based approach*. Tahap keempat adalah uji coba dan evaluasi sistem dengan metode *precision and recall*.

Hasil penelitian berupa *question answering system* dengan metode *pattern based approach* yang terdiri dari antar muka sistem untuk *input* pertanyaan dan pengolahan dokumen. Hasil uji coba dan evaluasi sistem dari penelitian ini menghasilkan hasil *precision* sebesar 16,27%, dan *recall* sebesar 77,77%.

Kata kunci : *question answering system, pattern based approach*, sistem temu kembali informasi

Rio Rizky Rainey Ferbiansyah, 2015. *Indonesian Language Question Answering System Using Pattern Based Approach Method (Case Study Teaching Material Course Operating Systems Bachelor Degree Information System Study Program Airlangga University)*. This undergraduate thesis was under guidance by Drs. Kartono, M.Kom and Badrus Zaman, S. Kom, M. Cs. Bachelor Degree Information System Study Program Faculty of Science and Technology, Airlangga University.

ABSTRACT

The purpose of this study is to help users find the information they need by entering a question. To get answers to questions using the Question Answering System. In the present study Question Answering System is designed and constructed using methods Pattern Based Approach.

The design and development of Question Answering System consists of four stages. The first step is to collect documents teaching materials course Operating Systems in Bachelor Degree Information Systems. The second stage is to calculate the weight value of each document with the method Term Frequency-Inverse Document Frequency which would then be used as a reference in the search engines process. The third stage is the analysis of the question answering system using pattern-based approach. The fourth stage is the testing and evaluation of the system by the method of precision and recall.

The results of the research is a question answering system with pattern-based approach method which consists of an interface system for input questions and document processing. Test and evaluation results of the research system produces precision result by 16,27%, and the recall result 77,77%.

Keyword : *question answering system, pattern based approach, information retrieval*