

ABSTRACT

The more information spread on the internet, the more difficult the user in searching the desired information properly, because many search engines have not used the concept of semantics in understanding a word or phrase search. Indonesia has a variety of regional specialties, which between one and the other has its own characteristics, in addition to the number of places to eat that provide it quite a lot. This information if not managed properly, then the user has difficulty in the search process if in times of need, especially the lovers and connoisseurs of typical Indonesian food. Therefore, in this research has been developed prototype semantic based search application on food data and eating place of indonesia region using SPARQL rule-based method by utilizing SPARQL Inferencing Notation (SPIN). Each sentence entered user translated by tokenization process, stemming, filtering and continued with the representation of sentences using keywords on the ontology to form SPARQL that can be run to perform queries. From the results of the process of running the query using SPIN can be concluded the average that the system can give satisfactory results (average f-measure value = 86.34%) by using SPIN and using the method SPARQL rules-based.

Keywords: *SPARQL, SPIN, semantics, query, prototype, rules-based*