

Abstract

In current age of information, we need to know how to represent, access, and use information. One of the approaches that can be used is faceted search. Faceted search is an information searching technique that classify each information along multiple explicit dimensions called facets. Even though faceted search has become a commercial technology that has been commonly used, traditional model is giving several issues in representing faceted metadata and formulating search query. Conventional faceted search model assumes the documents do not have relation with each other documents. This research tries to build a prototype of faceted search that helped with semantic web technology for solving this issue. This prototype is made with YAGO3 database that connected to DBpedia ontology as knowledge base. After the prototype has been made, prototype testing is held on searching accuracy that can be accomplished. The result from the testing shows that SemFacet can be used as solution for issues on conventional faceted search model and has a pretty high accuracy on giving the search result.

Keywords: faceted search, semantic web, YAGO3, DBpedia