Abstract

This paper introduces a technique to extend existing Web engineering methodologies to develop the semantic web applications. We investigate the use of ontology in the domain analysis for the development of web applications. The contribution of this paper is the automatic generation of Content Analysis Model from the Ontology Model. This technique makes a straightforward mapping between Ontology Definition Metamodel (ODM) model's elements and the Content Analysis Model's elements. We further show how this technique could be integrated with many web engineering methodologies, which are based on systematic and automatic chain of transformation during all the development phases. The requirement model that is generated from the Ontology model guarantees that an application terminologies are unified all over the web engineering process.
Reference

- “Ontology engineering” ,from wikipedia, the free encyclopedia.
- J. Hans and S. Stefan, “Applications of ontologies in software engineering,” in
International Workshop on Semantic Web Enabled Software Engineering (SWESE’06), November 2006.


Index Terms

Computer Science
Ontology
### Key words

Unified Modeling Language (UML)  
Model Driven Architecture (MDA)

Ontology

Semantic Web

Ontology Definition Metamodel (ODM)

Web Ontology Language (OWL)

Web Engineering