

ABSTRACT

The Semantic Web is an extension of the current web in which information is given well-defined meaning, better enabling computers and people to work in co-operation. In other word, it give machine to understand meaning of the information, so that it can communicate with people An ontology is a formal, explicit specification of a shared conceptualization.Ontologies are the backbone technology for the semantic web and –more generally- for the management of formalized knowledge within the technical context of distributed systems.

Nowdays, there are lot approach that is oriented towards managing knowledge contents by identifying knowledge items at various levels of formality. One way to perform this is by providing many types of meta data that are tied to ontologies for conceptual interlinkage. This is the semantic web role. Semantic web aims to easy integration and usage of content by building on a sem-structured data model where data semantics are explicitly specified through ontologies.

This final project will study a mechanism for building students final project ontology system by take advantage from web semantic form. The system is completed with query RDQL feature, which is the standard query language for semantic web. Data that being manage by system will use RDF data format.

Keyword: Ontology, Semantic web, Knowledge, RDQL, RDF