PROTOTYPE IMPLEMENTATION OF COLLABORATION BETWEEN MOODLE SYSTEMS USING ONTOLOGY BASED PORTAL WEB

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Abstract

Utilization of technology for educational purposes is not a new issue. One of them is the Learning Management Sistem (LMS). LMS has been implemented widely by various educational institutions in Indonesia. Besides functioning as a management lectures, teacher and student forum, the LMS can also be used as a source of reference material for learning.

Moodle, as one type of LMS can be functioning as resource material. Collection of these materials is very important for the students. In this research the author proposes a system that can present material from several Moodle-based sistem with the help of web services so that students only need to visit this web-based applications to access materials from several site-based elearning Moodle.

These materials are classified by a particular classification standard in order to provide convenience to the user in finding the desired material. To test the classification standard, the domain of Software Engineering Body of Knowledge (SWEBOK) is used. Search engine is designed to model the context-based search system with the aid of ontology which uses SWEBOK.

The test is done with three Moodle based e-learnings in intranet of Informatics Engineering, Sepuuh Nopember Institute of Technology. Based on testing that has been done, this system, which is named
eduPortal has been able to retrieve data from multiple e-learning servers using web services technology so student can get access to resource materials from some e-learnings directly. By ontology, this application proved to be able to model document management based on SWEBOK and realizes the context-based search system.

Keyword: Moodle Collaboration, Semantic Web, SWEBOK.