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## A Centralized Searching System for SCORM-based Learning Objects

### Abstract

It is difficult for users to access and reuse SCORM-based (Sharable Content Object Reference Model) learning objects without a centralized search system that can search in the distributed Learning Object Repositories (LORs) across the web. The proposed system provides a centralized search service that eases the access and reuse of the SCORM-based learning objects in the distributed learning object repositories (LORs) across the web. In recent years, the SCORM adopters are growing tremendously but the standardization of learning content repositories and interoperability between different learning systems are still big concerns. Unfortunately very few are able to share and reuse these learning contents between diverse platforms across the Internet. Currently a user needs to go to individual repository for searching the desired learning objects. The proposed system takes the user's search criteria and searches SCORM-based learning objects on all of the integrated LORs. A prototype implementation of the proposed system using Microsoft tools and technologies is developed as a proof of concept. The XML (eXtensible Markup Language) web services provide the interoperability between different platforms. UDDI (Universal Description Discovery and Integration) is used to integrate all web service-based LORs and agent application is used to communicate between different services.