Abstract

Information integration plays an important role in academic settings since it provides a comprehensive view of educations and enables managers to analyze and evaluate the effectiveness of education processes. However, the diversity and huge amount of information available in different academic sources overwhelms the education administrators and debilitates decision makings. This paper proposes a service-oriented framework which augments
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recommendation approach with components of semantic-based information integration and provides interactive and contextual-based information integration for decision makers in Higher Education Institutes. The underlying semantic web technology facilitates on-demand integration of information from internal sources as well as the Web and provides web service discovery and invocation for effective information analysis. In addition, the framework enables the users to analyze instances of student’s information and to receive recommendation of new information sources as well as appropriate analytical services based on the students’ status. Service orientation paradigm provides dynamic and flexible means of communication for service interoperability among the framework components.

Reference

SIGMOD Record, 33(4):65–70

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Index Terms

Computer Science

Information Science

Key words

Personalization

Semantic Web

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Service-Oriented Architecture

Higher Education Institute