implementation of OPAC using Restful web Service for Improving Interoperability among universities digital library

MUHAMMAD SYAIFUR ROHMAN
(Pembimbing : Heru Agus Santoso, Ph.D)
Teknik Informatika - S1, FIK, Universitas Dian Nuswantoro
www.dinus.ac.id
Email : 111201206543@mhs.dinus.ac.id

ABSTRAK

People assume that library is a place that contains many books. They think only book that are available in library. However, they can also find collections of books, periodicals, movies and recorded music to be borrowed by members of library, e.g., a university library. Currently, most of students, faculty, and librarians are still being limited within the scope of the local library. One of the troubles is while searching academic papers or books that are not available within a specific university, they was finally forced to look for references in other the University library. So based on the condition it is necessary to develop an approach for integrating the universities library catalog. The prototype system that based on university library OPAC web by using two sample databases universities library, especially in the Author research study place, which are represents as public and private universities analyze and implement a system concept that is applied to the library OPAC universities and thus creating an integrated online catalog system to facilitate the user in search of information each library collections. The result is Integration between heterogeneous systems does not need to change exiting system   and Web Service method was solution integration between heterogeneous high complexity systems.

Kata Kunci   :   data integration, Information Heterogeneity System, Database Management System (DBMS), Web Service, RESTful, JSON

implementation of OPAC using Restful web Service for Improving Interoperability among universities digital library

MUHAMMAD SYAIFUR ROHMAN
(Lecturer : Heru Agus Santoso, Ph.D)
*Bachelor of Informatics Engineering - S1, Faculty of Computer
Science, DINUS University*
www.dinus.ac.id
Email : 111201206543@mhs.dinus.ac.id

ABSTRACT

People assume that library is a place that contains many books. They think only book that are available in library. However, they can also find collections of books, periodicals, movies and recorded music to be borrowed by members of library, e.g., a university library. Currently, most of students, faculty, and librarians are still being limited within the scope of the local library. One of the troubles is while searching academic papers or books that are not available within a specific university, they was finally forced to look for references in other the University library. So based on the condition it is necessary to develop an approach for integrating the universities library catalog. The prototype system that based on university library OPAC web by using two sample databases universities library, especially in the Author research study place, which are represents as public and private universities analyze and implement a system concept that is applied to the library OPAC universities and thus creating an integrated online catalog system to facilitate the user in search of information each library collections. The result is Integration between heterogeneous systems does not need to change exiting system   and Web Service method was solution integration between heterogeneous high complexity systems.

Keyword   :   data integration, Information Heterogeneity System, Database Management System (DBMS), Web Service, RESTful, JSON