## Purdue University Purdue e-Pubs

Libraries Research Publications

10-20-2008

## Integrating Dissertation Metadata and INDURE Using Z39.50

Vijendra Purohit

Purdue University, vpurohit@purdue.edu

Michael Witt

Purdue University, mwitt@purdue.edu

Follow this and additional works at: http://docs.lib.purdue.edu/lib research

Purohit, Vijendra and Witt, Michael, "Integrating Dissertation Metadata and INDURE Using Z39.50" (2008). *Libraries Research Publications*. Paper 97.

 $http://docs.lib.purdue.edu/lib\_research/97$ 

This document has been made available through Purdue e-Pubs, a service of the Purdue University Libraries. Please contact epubs@purdue.edu for additional information.

## PURDUE Libraries Access. Knowledge. Success.

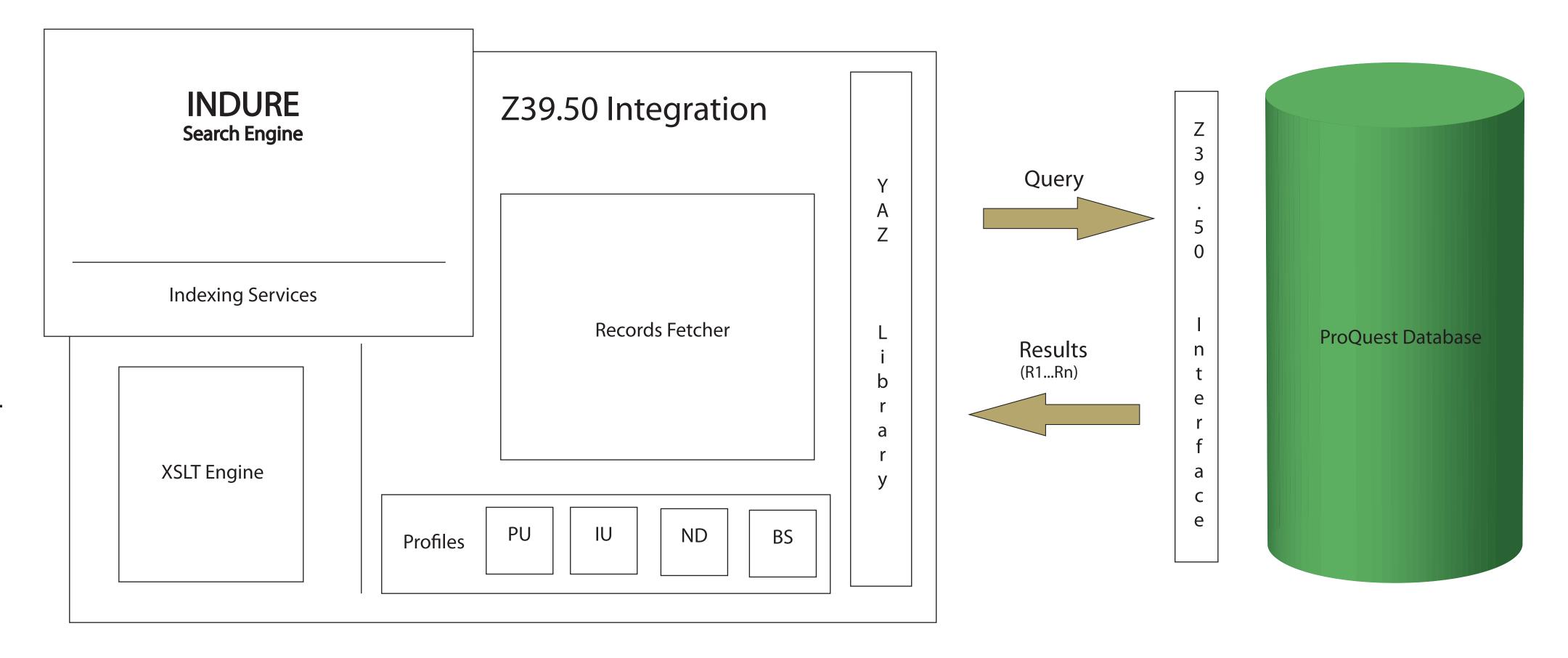
The Indiana Directory of University Research Expertise (INDURE) [1] is an easy-to-access database of experts, intellectual property, and ongoing sponsored research projects at academic institutions across the state of Indiana. Researchers from Purdue, Ball State, Indiana Universities and the University of Notre Dame can be located by searching INDURE by their individual research interests, expertise, and collaborations.

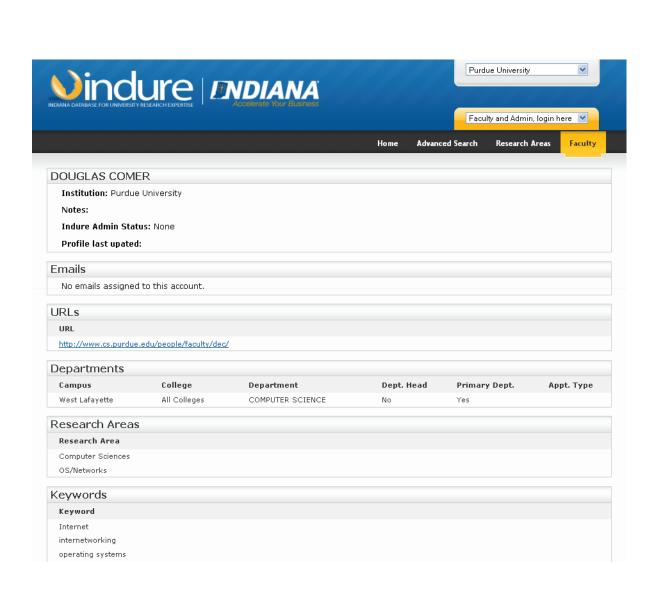
The majority of these researchers are faculty members. One strong descriptor of faculty's expertise can be found by analyzing the dissertations published by the doctoral students whom they advised. Through a database service licensed from ProQuest LLC, the Purdue University Libraries has access to the dissertations from these four institutions.

The purpose of this project is to query and harvest detailed, structured metadata describing these dissertations using the Z39.50 protocol [2] and to include this information in INDURE to improve the accuracy of its search engine.

The integration module that we are developing utilizes the YAZ client with connection profiles for the four different institutions. These are used to fetch bacthes of MARC [3] records from a Z39.50 interface that is exposed by the ProQuest server. The records contain the dissertations' titles, authors, advisors, and abstracts. These records are converted to qualified Dublin Core [4] using the oai\_dc schema and an XSLT engine. The oai\_dc records are then indexed by the INDURE search engine.

The INDURE project is led by Professor Aditya Mathur, Department of Computer Science at Purdue University, with support from the Indiana Economic Development Corporation.







- [1] INDURE, http://www.indure.org
- [2] Z39.50, http://www.loc.gov/z3950/agency
- [3] MARC, http://www.loc.gov/marc
- [4] Dublin Core, http://dublincore.org