



Next Generation Library Management System for the University

A Leading University

The client is a major multi-campus public research institution in the US. Its mission is to provide broad access to undergraduate, graduate, and continuing education for students throughout the states and the world, as well as outstanding academic and cultural programs and student services.

Project/Service Category

Product Implementation

Technology

- J2EE
- Jackrabbit (Java Content Repository)
- Lucene/SOLR
- XForms, XStreams
- jQuery, MySQL, Tomcat

HTC Differentiators

- HTC is a Quali Commercial Affiliate
- Quali Center of Excellence with strong technical resource pool
- Flexible Delivery Model: Onshore, distributed, and offshore models for ROI optimization
- Global experience with distributed teams

Background

The client's goal of the project is to define a next-generation technology environment. This software system will be able to connect with other enterprise technology systems within the academic and administrative computing environment.

In addition, the client intended to build a better knowledge base to overcome the challenges in the existing library system and preferred to implement the Quali OLE implementation.

Challenges

- Define new data formats and enable ingestion, indexing, search, retrieval, and management of data in new format
- Index selected attributes with minimal configuration and search (full-text and fielded)/retrieve documents based on indexed attributes
- Support check-in, check-out, and versioning of documents in the repository
- Support linking documents including many-to-many relationships at attribute level
- Populate controlled attributes during document creation/edit from authority

Solution

With strong focus and rich experience in Education domain and as a Quali Commercial Affiliate (KCA), HTC carefully analyzed the University's requirements and developed a robust scalable document store based on industry standard open source components such as Lucene/SOLR, Jackrabbit, and XForms.

Document store architecture is designed based on industry standard open source components such as Lucene/SOLR, Jackrabbit, and XForms. Solution supports ingestion, search, discovery and management of meta-data such as bibliographic, authority records in its existing formats including MARC XML, Dublin Core.

Indexes, facets, search results, search assist are made configurable for each data set without additional programming. Solution will scale to hundreds of millions of records on commercial hardware.

The solution also provided capabilities to configure new data sets and formats without additional programming. It is built up for scalability to hundreds of millions of records on a commercial hardware.



- Over 26 years of IT and BPO experience in providing cost effective and innovative services across domains for a wide spectrum of global 2000 customers
- Quality and information security processes compliant to SEI CMM Level 5, ISO 9001, ISO 27001 and PCI DSS standards
- Global presence, large delivery centers, talented professionals, capabilities across multiple technologies, platforms and domains