



Shared Collection Service Bus

A Connected Platform for Resource Sharing

Research Collections and Preservation Consortium

Client is a not for Profit Corporation that preserves the collections of its member libraries and empowers its patrons to share their research materials. They operate the world's largest library and archive preservation repository and provide daily print and digital delivery of these materials to its member libraries and to libraries around the world through interlibrary loan.

Project/Service Category

SCSB (Shared Collection Service Bus)

Technology

Presentation layer:

- jQuery
- Html
- CSS

Service layer:

- Apache Shiro
- Lucene Solr
- Amazon Cloud
- SFTP
- Docker
- ESIP
- REST APIs
- MySQL

Background

The overarching goal of the proposed project was to:

- Transform the nature of our client partnership from joint operation of a shared facility to cooperative stewardship of a shared collection
- Allow discovery-to-delivery by real-time integration with partner institutions' Library systems and Discovery
- Create tools and methods that can support the development of cooperative collection strategies nationwide

Solution

To meet the requirements of the client, HTC:

- Designed high-level architecture to support the desired collections management, collections development, and discovery-to-delivery functions
- Developed Middleware to facilitate the discovery and delivery of an expanded collection of materials
- Developed APIs to enable the Middleware to communicate in real time with the partner libraries and inventory management system
- Developed XML schema that produces daily feeds to update the partners' discovery.
- Created algorithm, which determines whether bibliographic items are identical for a cooperative collection management

Benefits

Implementation of SCSB has enabled:

- Completing over 150,000 unique, randomized requests per year without error
- Zero-loss in the inventory control and perfect reliability in retrieval
- Annual retrievals surpass the "six nines" threshold of 99.9999% reliability and margin of error for the inventory control evaluations is less than .05%



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