

Building Collections and Analyzing Data

Stacy Kowalczyk

Goals

- To show the current capability of the HTRC
- To get feedback about additional functionality
- To get feedback on the usefulness of the applications
- To find out more about researchers needs for subcollections



Agenda

- Introduction
- Application demos
- Hands on collection building
- Hands on data analysis
- Discussion



HTRC Applications



Login | Selected Items (0)

Limit your search

Era

Year

Topic

Language

More options

This is the HTRC demo instance of Blacklight.



HOME

COLLECTION

in Full Text \$

ALGORITHMS

Search

RESULTS

HELP

LOGOUT

Welcome to the HathiTrust Research Center!

ABOUT

The HathiTrust Research Center (HTRC) provides research access to the public domain text of the HathiTrust Digital Library. The HTRC is a collaborative research center launched jointly by Indiana University and the University of Illinois, along with the HathiTrust Digital Library, to help meet the technical challenges of dealing with massive amounts of digital text that researchers face by developing cutting-edge software tools and cyberinfrastructure to enable advanced computational access to the growing digital record of human knowledge.

The HTRC provides an infrastructure to search, collect, analyze, and visualize the full text of nearly 3 million public domain works and is intended for nonprofit and educational researchers. Click on the login link to begin. LOGIN

HTRC Collection Builder

- Provides a familiar search interface to the entire HTRC collection
- Allows for fielded and free text searching
- Interface for personalized sub-collections of the data for further processing
 - Creating new subcollection
 - Updating existing subcollections
- Based on the Blacklight open source search interface



HTRC Interactive Web Interface

- Provides simple interface to the HTRC infrastructure
 - Manage Collections
 - Submit Algorithms
 - Use Computational resources
 - Manage Jobs
 - View Results



Infrastructure Components

- Authentication
- Agent
- Registry
- APIs
 - Data access
 - Solr access
- Secured computational resources

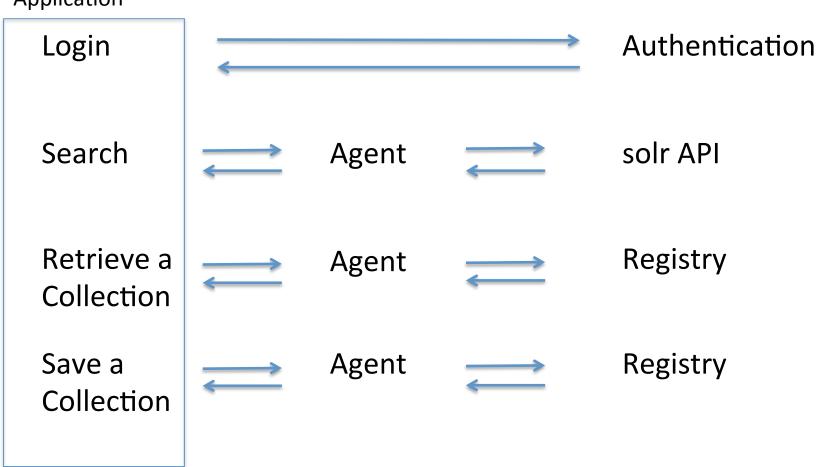


Collection Builder Demo

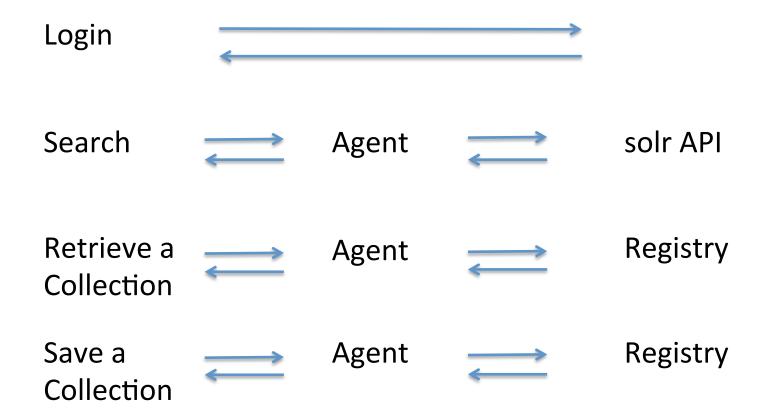


Collection Builder Process Flow

Search Application



Collection Builder Process Flow





Build a Collection

- http://htrc.mine.nu/blacklight
- Use Firefox, Safari, Chrome browsers
- Login using the ID provided
- Create a collection to be analyzed
 - Search
 - Create a collection
 - Retrieve the collection
 - Add or remove a volume
 - Save revised collection

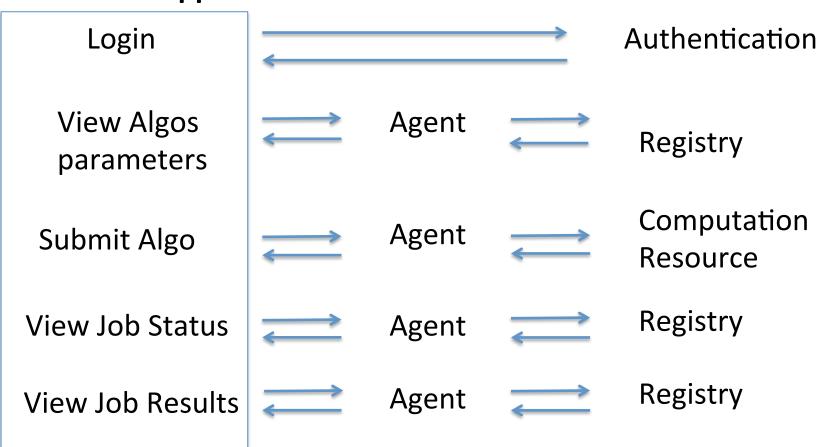


HTRC Web Interface Demo



Algorithm Process Flow

HTRC Web Application



Run an Algorithm

- http://smoketree.cs.indiana.edu:8999/HTRC-UI-Portal2/LogoutAction
- Sign on with the IDs provided
- View your collections
- Run an algorithm
 - Word count
 - Simple tag cloud
- Results
 - Job management
 - View Results



Feedback

- What worked for you?
- What did not work?
- Where there interactions that were awkward?
- What additional functions would you like to see?
- What types of algorithms do you use in your research?
- What environments do these algorithms require?
- What is the approximate size of the collections you use in your work?
- Were you able to find useful materials for your research? Would subsetting the collection apriori help you find materials?