Auto Verification

Library Technology Conference
Paul Swanson
March 19th, 2014
average 1000 requests/day

staff can search 30-45 requests/hour in OCLC

30 hours/day searching OCLC
We decided to automate the process of searching OCLC for libraries that can fill interlibrary loan requests.

The program that we built uses the OCLC Worldcat search web service to locate the libraries that can fill the request.
Auto Verification

Steps

Step 1 - Extract identifying numbers from each request
  - UPC, ISBN, LCN, OCLC

Step 2 - Send the identifying number to OCLC’s Search web service to retrieve locations that hold the requested item

Step 3 - Sort the returned locations by our own internal referral priority list, and print the locations out on the request
Step 1 - Extract Identifying Numbers

Original Request

DO NOT REMOVE THIS SLIP!

Title: Dance teaching methods and curriculum design
Author/Article Author: Kassing, Gayle, Jay, Danielle M. (Danielle Mary), 1947-

Publisher Info: Human Kinetics; Champaign, IL; c2003.

ISBN/ISSN: 0736002405

Volume/Issue: Article Date: Pages:

Edition: Description: x, 421 p. : ill. ; 29 cm.

Copyright Compliance: Call Number: N/A
Database/#: Cooperating Libraries in Consortium (CLIC)/INNOPAC LCN: 2002012685

Request Notes:

Pickup Location: Ada Public Library

Barcode:
Step 1 - Extract Identifying Numbers

DLender: DO NOT REMOVE THIS SLIP! Borrower:
Responder Reg. No.: 12984000 Requester Reg. No.: 12975714
Minitex: MII01 Requesting Library: LAL - Moorhead Public Library: LAL01
Printed Date: 01-AUG-2011 Last Action: Answer Will Supply
Need By: 24-JAN-2012 Expiration Date:
Title: Dance teaching methods and curriculum design
Author/Article Author: Kassing, Gayle., Jay, Danielle M. (Danielle Mary), 1947-
Volume/Issue: Article Date: Pages:
Article Title:
Publisher Info: Human Kinetics; Champaign, IL; c2003.
ISBN/ISSN: 0736002405 Due Date:
Edition:
Description: x, 421 p. : ill. ; 29 cm.
Copyright Compliance:
Call Number: N/A
Database/#: Cooperating Libraries in Consortium (CLIC)/INNOPAC LCN: 2002012685
Request Notes:
Pickup Location: Ada Public Library
Barcode:
Step 2 - Retrieve Locations
URL to lookup locations through Search web service

http://www.worldcat.org/webservices/catalog/content/libraries/isbn/0736002405/?wskey=<key>&format=json&servicelevel=full&frbrGrouping=off

- frbrGrouping=on will return records of all different media types
- frbrGrouping=off will return the record of only the requested media type
Step 2 - Retrieve Locations

Returned JSON from Search web service

```json
{
  "title": "Dance teaching methods and curriculum design",
  "author": "Kassing, Gayle.",
  "publisher": "Human Kinetics",
  "date": "c2003.",
  "ISBN": [
    "0736002405",
    "9780736002400"
  ],
  "OCLCnumber": "50339472",
  "library": [
    {
      "institutionName": "University of Minnesota, Minneapolis",
      "streetAddress1": "499 WILSON LIBR",
      "streetAddress2": "309 19TH AVE S",
      "city": "MINNEAPOLIS",
      "state": "MN",
      "country": "United States",
      "postalCode": "55455",
      "opacUrl": "http://www.worldcat.org/wcpa/oclc/50339472?page=frame&url=http%3A%2F%2Fumnlib.oit.umn.edu%2FF%3Ffunc%3Dfind-b%26find_code%3Disbn%26l_base%3Dtcmncat%26request%3D0736002405%26checksum%3D87d628329a9863ead462f6a93360b8bd&title=University+of+Minnesota%2C+Minneapolis&linktype=opac&detail=MNU%3AUniversity+of+Minnesota%2C+Minneapolis%2C+Minneapolis%3AARL+Library&app=wcapi&id=MII-Minitex",
      "oclcSymbol": "MNU",
      "distance": "0.24"
    }
  ],
  ... many more locations ...
}
```
Step 3 - Sort Locations

- Returned locations from OCLC are in proximity order
- We re-sort that list against our own referral priority list:

<table>
<thead>
<tr>
<th>Returned</th>
<th>Re-sorted</th>
</tr>
</thead>
<tbody>
<tr>
<td>MNU</td>
<td>MNU</td>
</tr>
<tr>
<td>NOW</td>
<td>NOW</td>
</tr>
<tr>
<td>MUC</td>
<td>MNO</td>
</tr>
<tr>
<td>WRF</td>
<td>MUC</td>
</tr>
<tr>
<td>MNO</td>
<td>NDM</td>
</tr>
<tr>
<td>GZU</td>
<td>NMI</td>
</tr>
<tr>
<td>NIU</td>
<td>GZM</td>
</tr>
<tr>
<td>WIS</td>
<td>WII</td>
</tr>
<tr>
<td>IOE</td>
<td>GZU</td>
</tr>
<tr>
<td>GZM</td>
<td>GZT</td>
</tr>
<tr>
<td>GZM</td>
<td>WRF</td>
</tr>
<tr>
<td>NUI</td>
<td>WIS</td>
</tr>
<tr>
<td>IOP</td>
<td></td>
</tr>
<tr>
<td>IOK</td>
<td></td>
</tr>
</tbody>
</table>

... more
Title: Dance teaching methods and curriculum design
Author/Article Author: Kassing, Gayle J., Danielle M. (Danelle Mary), 1947-
Volume/Issue: Article Date:
Page(s):

Article Title: 
Publisher Info: Human Kinetics; Champaign, IL; c2003.

ISBN/ISSN: 0736002405

Due Date:

Edition:
Description: x, 421 p. : ill. ; 29 cm.
Copyright Compliance:

Call Number: N/A
Database #: Cooperating Libraries in Consortium (CLIC)/INNOPAC LCN: 2002012685
Request Notes:

Pickup Location: Ada Public Library

Barcode:
Outcomes

- **Time Savings**
  - What used to take about 30 hours of staff time now takes about 5 minutes.
  - 61% of our ILL requests are now auto-verified.

- **Staffing Savings**
  - Overall 30% reduction in student staff.
Questions...