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Using APIs to develop reading list software at the University of Huddersfield

CC I O BY SA Dave Pattern Library Systems Manager University of Huddersfield, UK

The back story...



• Once upon a time in the West...

There were three men in her life. One to take her... one to love her-and METANOLATE A SERGIO LEONEFILM CLAUDIA CARDINALE **JASON ROBARDS** HENRY FONDA CHARLES BRONSON ONCE UPON A TIME IN THE WEST

Inspiring tomorrow's professionals

The back story...



- Once upon a time in West Yorkshire, UK
- ...the University of Huddersfield had a lot of courses
- ...each course contained several modules
- ...most modules had a list of required, recommended and background reading (books, articles, web sites, etc)



some academics don't check if the students can access the items on their lists in the library



some academics don't update the books on their reading lists to the latest edition



many academics forget to send a copy of the reading list to the library



students get p*ssed off
when the library fails
to provide access to the
 reading list items



it gets <u>real</u> ugly when 300 students try to get hold of the <u>only</u> copy of the book in the library



time for the library to be the good guys :-)



Enter MyReading...



- Reading list software developed in-house
- Launched in summer 2011
- Over 98% of all active modules now have a reading list in MyReading
- Most academics are using the software to maintain their reading lists

BFK0006: INTRODUCTION TO SPORTS PROMOTION AND MARKETING

Module Leader: Glynis Jones This list was last updated on 22/Jan/2013 URL: http://library.hud.ac.uk/my/BFK0006

Contents (show)

1 - Essential Reading

book » essential reading

Chadwick, Simon and Beech, John G. (2007) - The marketing of sport

2 - Supplementary Reading

| | collapse top |
|---|----------------|
| <i>book » recommended reading</i> Fullerton, Sam (2010) - Sports marketing (2nd ed) | 金金金金金 🧭 |
| book » recommended reading Shank, Matthew D. (2009) - Sports marketing: a strategic perspective (4th ed) | 会会会会会 🧭 |
| book » recommended reading Smith, Aaron (2008) - Introduction to sport marketing | 金金金金金 🧭 |
| book » recommended reading Sutton, William Anthony, Hardy, Stephen and Mullin, Bernard James (2007) - Sport marketin | ng (3rd ed) |
| book » recommended reading Wakefield, Kirk L. (2007) - Team sports marketing | 会会会会会 🖓 |



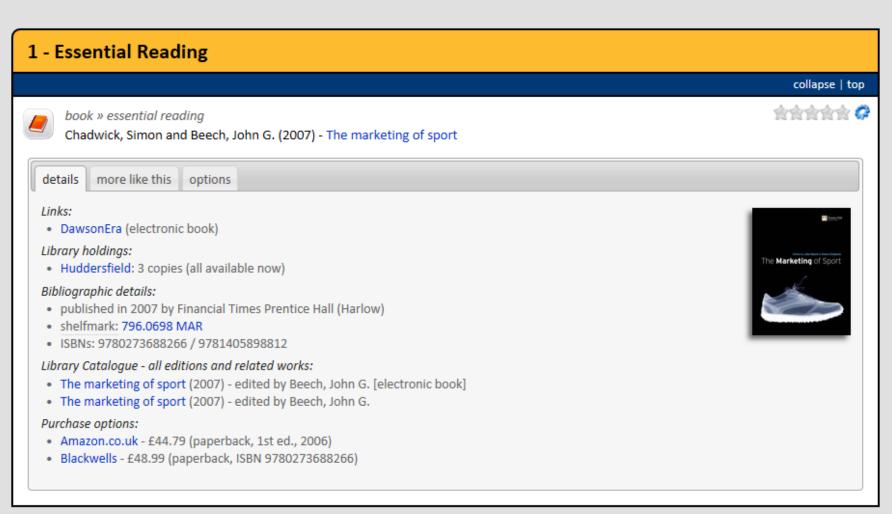
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BFK0006: INTRODUCTION TO SPORTS PROMOTION AND MARKETING

Module Leader: Glynis Jones This list was last updated on 22/Jan/2013 URL: http://library.hud.ac.uk/my/BFK0006

Contents (show)





The requirements...

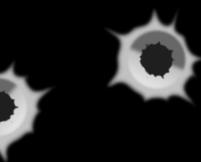


- The software had to:
 - give students electronic access to as much material as possible
 - provide the library with purchasing data
 - automate as much as possible
 - -be easy for academics to use
 - integrate with other systems

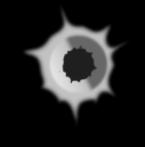


THE GOOD











SUMMON

Serials Solutions Summon API api.summon.serialssolutions.com



The problem...

- We need to make MyReading easier to use than updating a Word document
- Getting accurate metadata is hard and we want to make the references as rich as possible
- We need reliable full-text links

Serials Solutions Summon API api.summon.serialssolutions.com



- MyReading is integrated into the Summon interface (using jQuery)
- Academics can quickly add items to their reading lists from the 132 million items in our Summon collection ...or from the 791 million items in the full Summon index



```
(0032 9233 7689, WWW.
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- <field name="SourceType">
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- <field name="Publisher_xml">
  </field>
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         the traditional tourist trail in favour of Bruges's beauty and Antwerp's...</value>
  </field>
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     - <field name="PublicationYear">
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      - <field name="PQID">
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```

Please check the item reference for accuracy...

fields in red are mandatory

fields in green affect how the software displays the reference and should be altered with caution

| item type: | JOURNAL ARTICLE | |
|---------------------|--|---|
| article title: | Cities of Flanders: Ghent: Sweet secrets: You never know quite what to expect in Ghent, with | |
| article author(s): | Jane E Knight | ? |
| journal title: | The Guardian | |
| volume: | | ? |
| issue: | | ? |
| page(s): | 5 | ? |
| article DOI: | | |
| article URL: | http://rc4ht3qs8p.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc: | |
| publication date: | 23/11/2002 | ? |
| publisher name: | Guardian News & Media Limited | ? |
| oublisher location: | London (UK) | ? |
| ISSN (print): | 0261-3077 | ? |
| ISSN (electronic): | | ? |
| | | |

submit

4 - ELAG 2013

section options: edit | ↑move↓ | copy | adaptive release | delete



journal article » recommended reading

Jane E Knight - Cities of Flanders: Ghent: Sweet secrets: You never know quite what to expect in Ghent, with its quirky customs, secret recipes and long- hidden treasure in *The Guardian* (2002)



Links (show more):

article link (via Summon)

Article details:

- page: 5
- date: 23/11/2002

Article abstract from Summon:

 It doesn't take long to expect the unexpected in Ghent, a city sometimes left off the traditional tourist trail in favour of Bruges's beauty and Antwerp's attitude. For Ghent not only ... [read more]

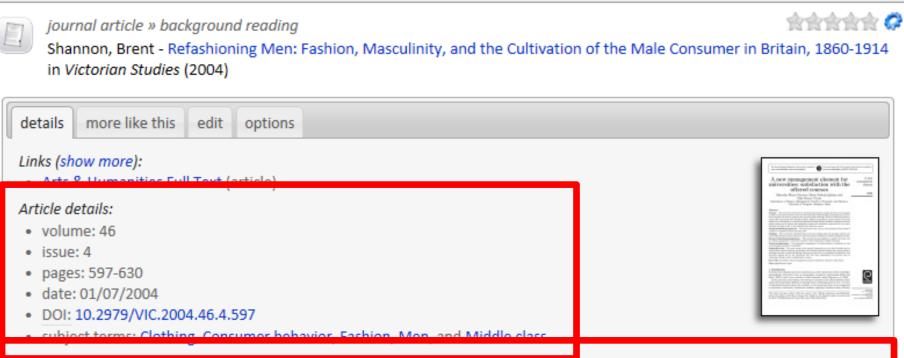
Journal details:

- The Guardian
- ISSN: 0261-3077 (print)
- publisher: Guardian News & Media Limited (London (UK))



collapse | top

18787878788 C



Article abstract from Summon:

In November 1893 the Cutter's Gazette of Fashion, a prominent trade periodical for tailors, published the comments of a T.
Patterson delivered before the Sheffield Society. In his address, Patterson celebrated the robust state of London's men's
tailoring and extolled the modern advances that had allowed its proliferation throughout the provinces and the Continent.
Shannon examines how men, masculinity, and male consumption were imagined in the discourse of the burgeoning
commodity culture and fashion industry, and how this discourse operated against, and alongside of, the Great Masculine
Renunciation's more conservative promotion of sartorial reserve and repudiation of consumer desire in Britain between 1860
and 1914.

Journal actails.

- Victorian Studies
- ISSN: 0042-5222 (print) & 1527-2052 (electronic)
- publisher: Indiana University Press



XISBN

OCLC xISBN www.oclc.org/developer/services/xisbn



The problem...

- Some academics don't list the latest edition of a book on their reading list
- The library routinely buys new editions of popular books and gets rid of the older editions





- Provides details of related editions, including basic metadata
- Free for up to 500 requests per day
- Ideal for linking together different editions of the same title

monds, steven and ramer, Awyn w. (2000) big bisd miside the most bedathar store in the world

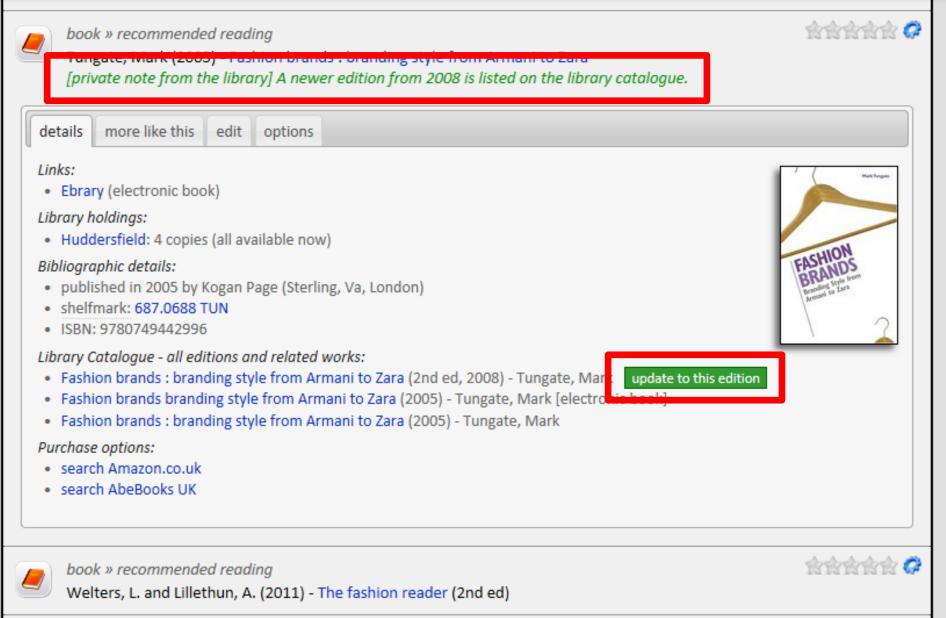


book » recommended reading

Welters, Linda and Lillethun, Abby (2011) - The fashion reader (2nd ed)



monday, steven and ramer, Anvyn w. (2000) big biba i molde the most bedathar store in the world



book » recommended reading Welters, Linda and Lillethun, Abby (2011) - The fashion reader (2nd ed)





360 LINK

Serials Solutions 360 Link *serialssolutions.com/en/services/360-link*



The problem...

- Linking to articles is a pain in the ass!
- Academics don't understand URLs with session IDs, authentication issues, etc
- Legal issues around hosting article PDFs
- Library subscriptions and journal platforms keep changing

Serials Solutions 360 Link *serialssolutions.com/en/services/360-link*



- You've paid for a link resolver, so why not use it?;-)
- 360 Link API provides current access options and basic metadata for a given OpenURL as XML

MyReading: My Lists | list options ▼

al elotics, the politics of masculling enalisin and big-gam She in Critical Survey (2008) *** journal article » background reading Slifkin, Robert - James Whistler as the Invisible Man: Anti-Aestheticism and Artistic Vision in Oxford Art Journal (2006) more like this edit details options Links (show more): Oxford Journals Humanities Collection (article) ALLICIE GELGIIS. volume: 29 issue: 1 pages: 55-75 date: 01/01/2006

DOI: 10.1093/oxartj/kci049

Article abstract from Summon:

• H. G. Wells' novel "The Invisible Man" (1897) and its title character in particular can be seen as a satire of the flamboyant and contentious public persona of James McNeil Whistler. ... [read more]

Journal details:

- Oxford Art Journal
- ISSN: 0142-6540 (print) & 1741-7287 (electronic)
- publisher: Oxford Publishing Limited(England) (Oxford)



journal article » background reading

Sussman, Herbert - Arthur Conan Doyle and the Meaning of Masculinity / Conrad and Masculinity (Book Review) in Victorian Studies (2002)



journal article » recommended reading

Tech John Mecaulipities in an Industrializing Society Pritain, 1900, 1014 in Journal of Pritich Studies (2005)



Linda Dryden - Heart of Darkness and Allan Quatermain: Apocalypse and utopia in Conradiana (1999)

journal article » recommended reading

食食食食食 🧭

Luckhurst, Roger - The mummy's curse: a study in rumour in Critical Quarterly (2010)



journal article » recommended reading

NUMBER OF STREET, STRE CHERT CONTRACT TO A CONTRACT OF A CONTRACT O



COPAC

COPAC copac.ac.uk/developers/webapi/



The problem...

- Getting good metadata for books the library doesn't have in stock
- Academics often want to add books that they have sitting on the shelf in their office



- Academics can type in an ISBN
- MyReading checks library catalogue first
- If not held in stock, we check COPAC
- See also:
 - OCLC WorldCat Search API
 - <u>Amazon APIs</u>
 - <u>Perl WWW::Scraper::ISBN</u> modules





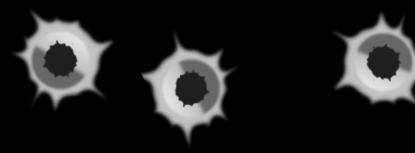
CrossRef Metadata Search API search.labs.crossref.org/help/api



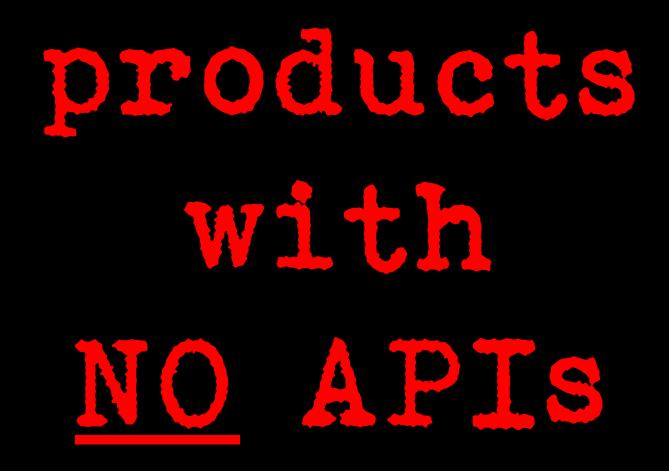
The problem...

- An academic wants to add a reference manually but we want to avoid bad metadata, typos, etc
- If the academic has a DOI for the reference, we can check CrossRef to get accurate metadata

THE BAD







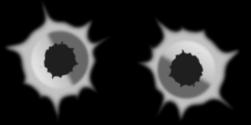
products without 8 free API

products with hard to use APIs

THE UGLY

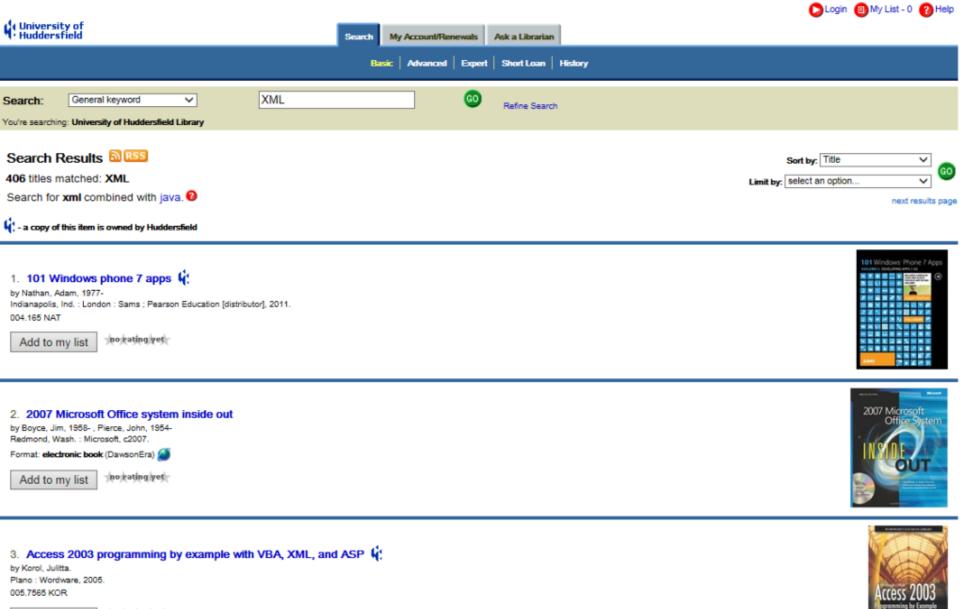


Aure and





THE OPAC



Add to my list no rating yet

 Access 2003 programming by example with VBA, XML, and ASP by Korol, Julitta.
 Plano : Wordware, 2005.



XML, and ASP

& GetXML=true

```
<?xml version="1.0" encoding="UTF-8" standalone="true"?>

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     <version>3.08</version>
     <session>13F89GX210160.4196</session>
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     <lang>eng</lang>
      <expirepage>360</expirepage>
      <illurl/>
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          <port>80</port>
      </httpserver>
     - <browser>
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          <majorversion>10</majorversion>
          <minorversion>0</minorversion>
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                <active>true</active>
            </tab>
                <name>My Account/Renewals</name>
           - <tab>
                <alt>view your account information and renew items</alt>
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                <active>false</active>
             </tab>
           - <tab>
                 <name>Ask a Librarian</name>
                 <alt>email a question to a Librarian</alt>
                 <href>http://www.hud.ac.uk/library/help/askalibrarian/</href>
                 <active>false</active>
              </tab>

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                 <alt>basic search</alt>
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                  <active>true</active>
               </submenu>

    <submenu>

                  <name>Advanced</name>
                  calt>advanced search</alt>
```



DATA

Issues around data aka "The Can o' Worms"



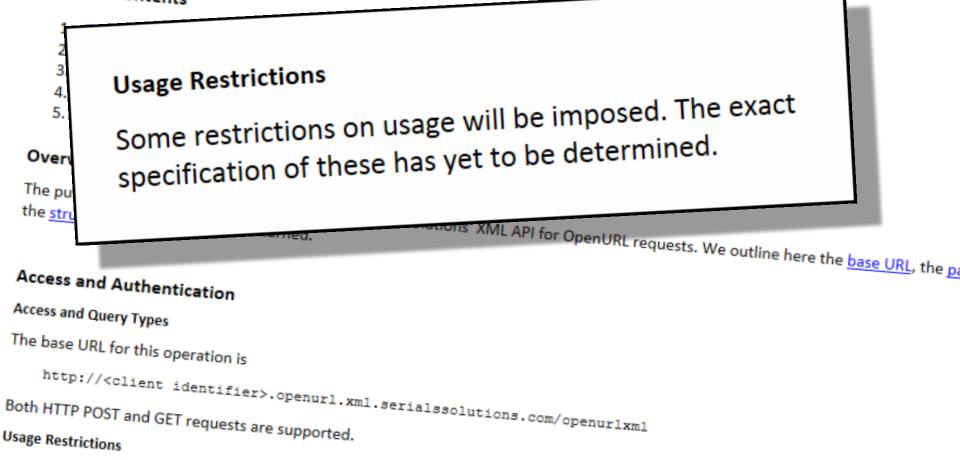
- Data ownership
- Data use, reuse and remixing
- Can we still make use of the data we've already collected/harvested if we cancel the vendor product?

SerialsSolutions

XML API for OpenURL Requests

Version 1.0 12 June 2007

Table of Contents



Some restrictions on usage will be imposed. The



STANDARDS





- APIs allow developers to enrich existing library services and to rapidly develop new ones
- APIs allow you to "glue" together different services and products, and this then allows data to flow





- When purchasing new products, remember to ask the vendor...
 - does it have an fully-featured API?
 - is the product itself built on top of the API?
 - is the documentation publicly available?
 - what have other libraries developed using your API?





- email: d.c.pattern@hud.ac.uk
- tweet: @daveyp
- images taken from various trailers for *The Good, The Bad and The Ugly* (1966), directed by Sergio Leone