

# Swinburne A-Z Databases

URL: www.swinburne.edu.au/library/search/databases/

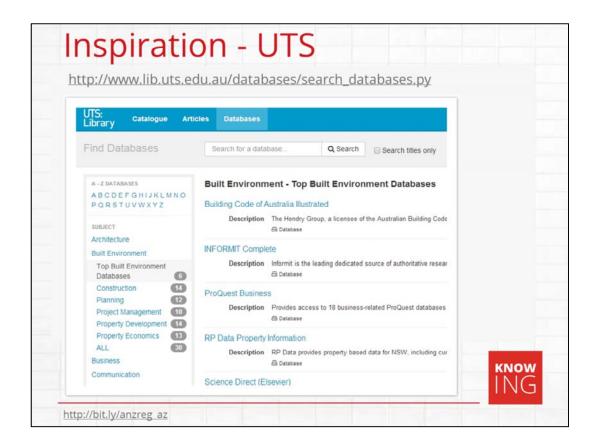
Code: https://github.com/justinkelly/az\_databases

Twitter: @\_justin\_kelly

Slides: http://bit.ly/anzreg\_az



http://bit.ly/anzreg az



- Category and sub-category
- Number of database per category/sub

Not open source

About to be rewritten from scratch

Separate datastore

# Footnotes

# **Examples of other AZ Database system**

- Swinburnes previous AZ (static html)
   http://web.archive.org/web/20140923101818/http://www.swinburne.edu.au/lib/database/databaselist\_a.htm
- UTS (custom python app) <a href="http://www.lib.uts.edu.au/databases/search\_databases.py">http://www.lib.uts.edu.au/databases/search\_databases.py</a>
- Deakin (custom php app) <a href="http://www.deakin.edu.au/library/a-z/databases.php">http://www.deakin.edu.au/library/a-z/databases.php</a>
- Monash (libguides) <a href="http://guides.lib.monash.edu/subject-databases">http://guides.lib.monash.edu/subject-databases</a>
- Harvard (ExLibris Metalib) <a href="http://e-research.lib.harvard.edu/V?func=find-db-1">http://e-research.lib.harvard.edu/V?func=find-db-1</a>
- Princeton (Solr and Drupal) <a href="http://library.princeton.edu/research/databases">http://library.princeton.edu/research/databases</a>



http://bit.ly/anzreg az

# History

- Library/subject guides have gone rouge
- Databases are a libraries most expensive resources Why are they hidden away in hard to use systems??
- No acceptable AZ database solution from ExLibris
- All data to be stored in Alma
- Modern system that allows for search, filtering by subject and sub-subject
- Stop the duplication of work involved in updating, adding and maintaining the existing A-Z



http://bit.ly/anzreg az

No acceptable AZ database solution from ExLibris

Each institution using own solution to solve the same problem

Either Metalib, LibGuides or homebrew

### **Motivation:**

Swinburne had been using a largely unchanged collection of static HTML pages to list our available databases by A-Z for almost 20 years.

This very basically served its purpose but issues with

- inconsistent data,
- double handling (saved in html and also in the library system),
- no dyanmaic content or filters by area or subject,

and no real search.

Following a survey or other University librarys AZ systems (refer links below) we decided to create a new AZ system similar to UTSs but based 100% on the ExLirbis Alma APIs and released as open-source.

### Goals:

Modern system that allows for search, filtering by subject and sub-subject

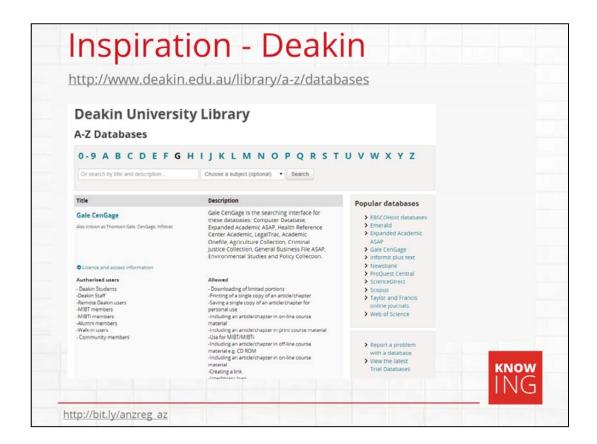
Stop the duplication of work involved in updating, adding and maintaining the existing A-Z

All data to be stored in Alma

Map categories to Swinburne study areas

Forget trying to make a guide pre unit - change to often - age to quickly

Alma is the content management system

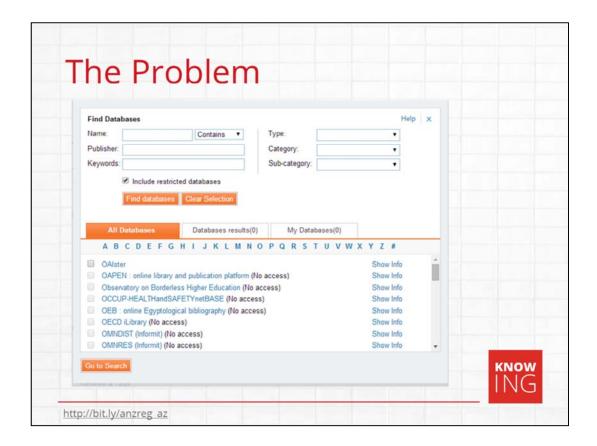


### License and access information

Simply show database user limitations

Permanent links

Separate datastore



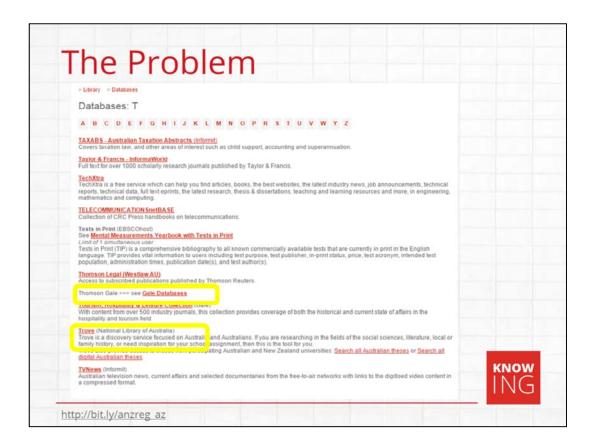
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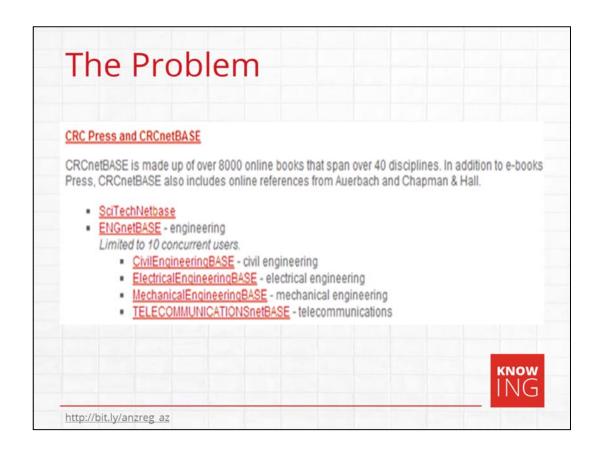
Either Metalib, LibGuides or homebrew

### Metalib in Primo

- Legacy
- Confusing
- Old
- Not aligned with universities existing category and subcategory structure
- Not mobile friendly



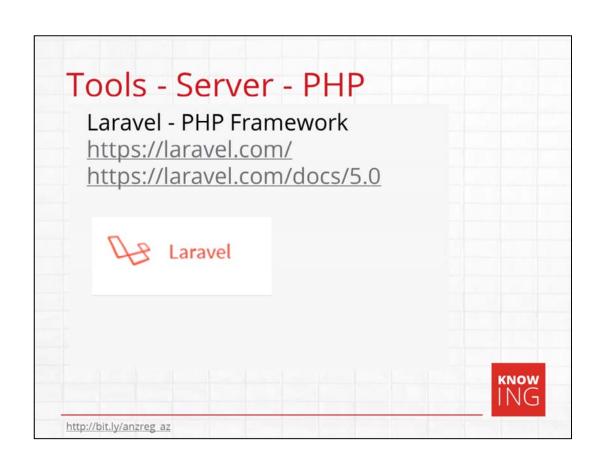
- Simple it worked
- Static
  - o issues with alternate titles
  - how to file with common different titles
  - o is Trove under T or N or both

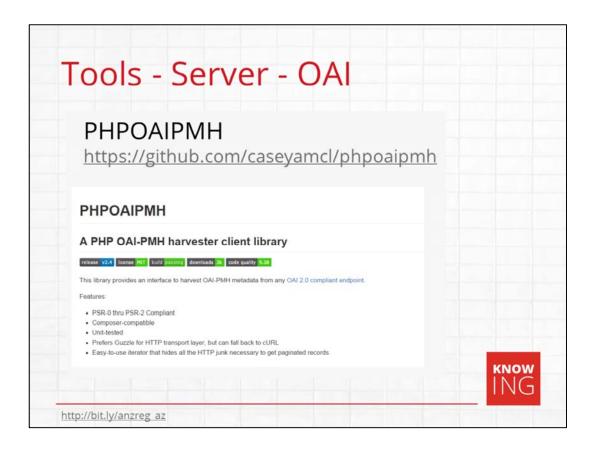


### Problem:

not dynamic - hard to handle parent/child database relations, same title under multiple letters or name

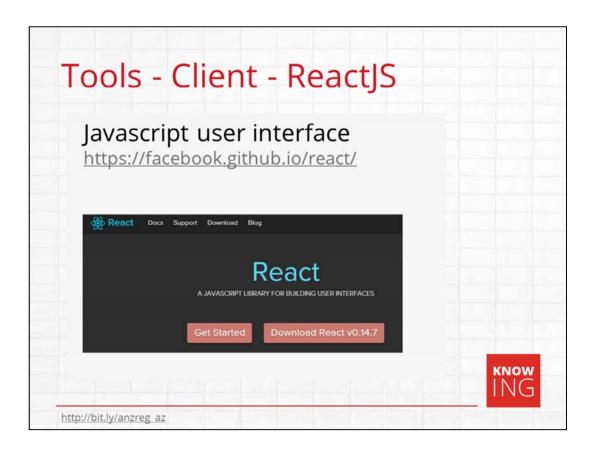
trying to do category and subcategory with static pages very hard



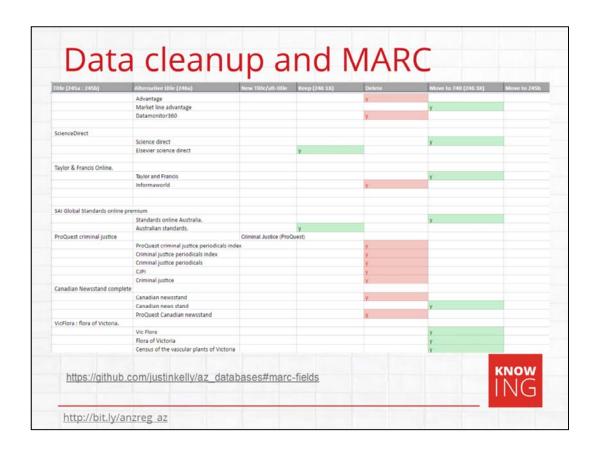


OAI very well supported in PHP - many libraries to choose fine

PHPOAIPMH worked the best and easiest to setup - and documented



ReactJS from Facebook - Primo 5 New UI using Angular from Google



### Data cleanup

- Export all database to excel
- Redo all descriptions
- Cleanup delete n add titles and alt titles which display and which are only searchable
- Assign each database to a category and sub-catergory (if appropirate) multiple is OK
- Manually update the MARC records based on the spreadsheets

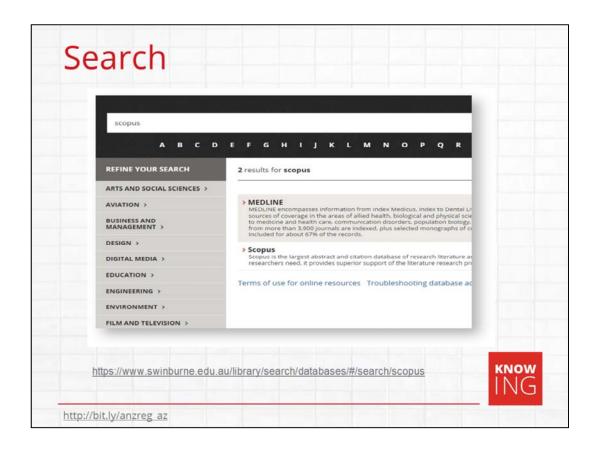
### New workflows

- Once a new database comes on board subscription notifies the AZ business owner/liasions
- business owner created description and assigns category mapping
- cataloguer updates the MARC record

### **MARC**

- 245a = Title
- 246a = Alt title that will display in the list under its first letter and searchable
- 740 = An alt title that will be searchable but will NOT display in the list under its letter

- 260a and b = place of publication and publisher
- 960a = subject can be multiple
  - This field defines that top level category the database will be listed in - such as 'Engineering'
- 960b = sub-subject got to think about this Swinburne defined list
   (A-Z Subject mapping)
  - This field defines that second level (sub-category) the database will be listed in - such as 'Electrical'
- 650a = sub subject can be multiple Library of Congress headings
   controlled by the cataloguers
- 520a = description
- 500a = user limit notes
- 362a = time span
- 917a = URL

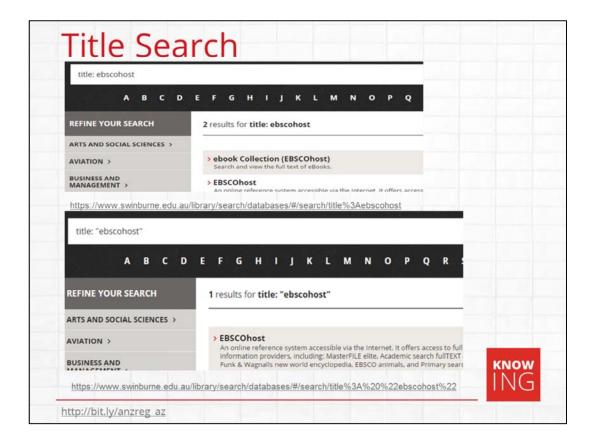


A search for ebscohost in AZ Databases, returns all 42 ebscohost databases in Alma note:

a general search searches the

- url,
- title,
- description,
- alt title and other marc fields refer link and screenshot below

http://www.swinburne.edu.au/library/search/databases/#/search/ebscohost



### Title

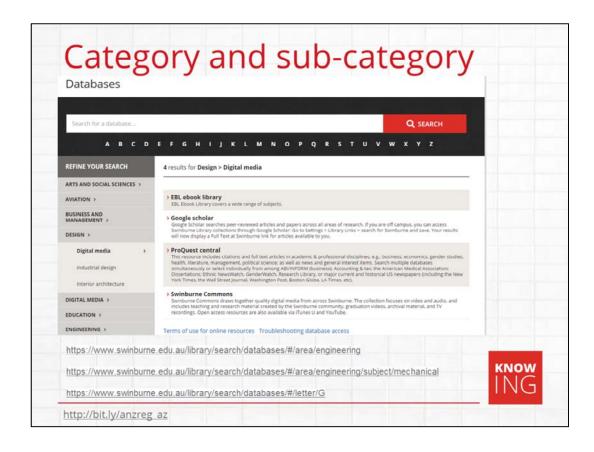
By adding title: to the start of the search query we can limit to a title search for ebscohost, this returns the 2 database with ebscohost in the title refer link and screenshot

belowhttp://www.swinburne.edu.au/library/search/databases/#/search/title %3Aebscohost

### **Exact**

By putting quotes around the search term we can limit to an exact title search, this returns just 1 result - which is the main ebscohost database refer link and screenshot

belowhttp://www.swinburne.edu.au/library/search/databases/#/search/title %3A%20%22ebscohost%22



### Category and sub-category

Some database are in all categories and subcategories

### Letters

https://www.swinburne.edu.au/library/search/databases/#/letter/G

## Server API Categories https://www.swinburne.edu.au/lib/tools/az\_server/public/AZArea Letter - https://www.swinburne.edu.au/lib/tools/az\_server/public/database /az/H Search - https://www.swinburne.edu.au/lib/tools/az\_server/public/database /search/water Category https://www.swinburne.edu.au/lib/tools/az\_server/public/database /area/arts-and-social-sciences Category and sub-category https://www.swinburne.edu.au/lib/tools/az\_server/public/database /area/arts-and-social-sciences/subject/community-health-andwelfare KNOW ING

Laravel (PHP) + MySQL app that provides the data API for the client

# Server - OAI import & code

### Import - MARC fields

https://github.com/justinkelly/az\_databases/blob/master/server/app/Http/Controllers/ImportController.php

### Alt title import

https://github.com/justinkelly/az\_databases/blob/master/server/app/Http/Controllers/ImportController.php#L123

### Database design

https://github.com/justinkelly/az\_databases/blob/master/server/database/migrations/2015\_05\_27\_031409\_create\_projects\_and\_tasks\_tables.php

### Search

https://github.com/justinkelly/az\_databases/blob/master/server/app/Http/Controllers/AZDatabaseController.php#L1



# Alma configuration & API • MARC • API choice • Publishing job

### **MARC**

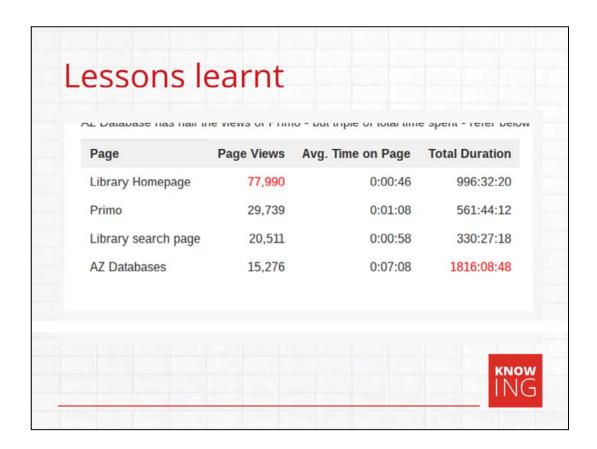
- done in accordance with our expert cataloguer John Butera
- as standard as possible
- and using unused fields for new areas (category & sub-category) etc.

### API

- Alma provides an OAI feed based on a publishing jobs
- OAI is probably the simplest API available for listing of records
  - and many libraries already exist for OAI

### ALMA

- To enable the API in Alma
  - first create a set for your databases
  - create a publishing job based on this set that exports to OAI
  - setup the appropriate schedule
- Normally an API is 'live' or dynamic
- With the OAI API in Alma the feed is nto live its updated based on the publishing job/schedule
- It a new database is added in Alma and it needs to be in AZ before the next publishing job is run
  - You have to manually run the publishing job and the corresponding import job in AZ



### OAI API is not live

AZ databases affects everyone in the library

Any change to AZ database requires consultation with most areas of the library

Best time to implement a new AZ is along side a library website upgrade

