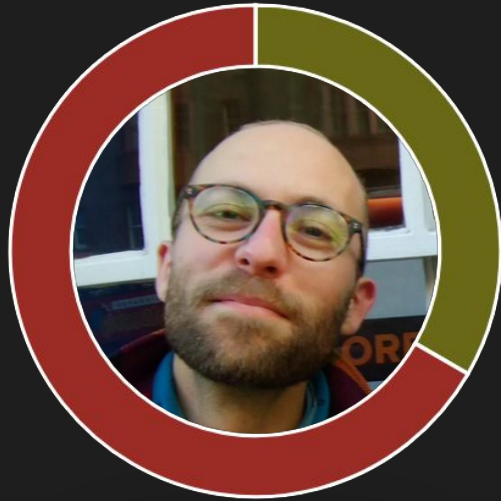




Systems Agility:

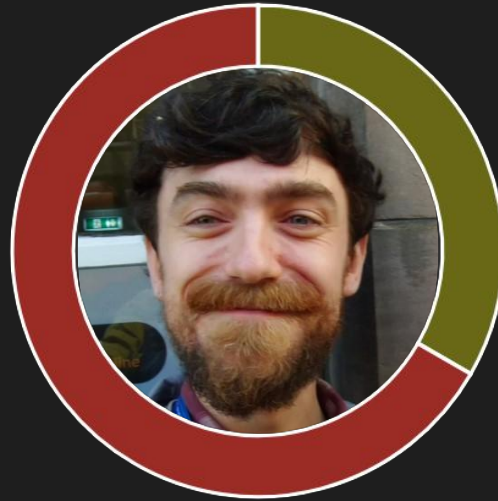
**New Approaches to
Google-sized Challenges**



Mike

Training & Integration

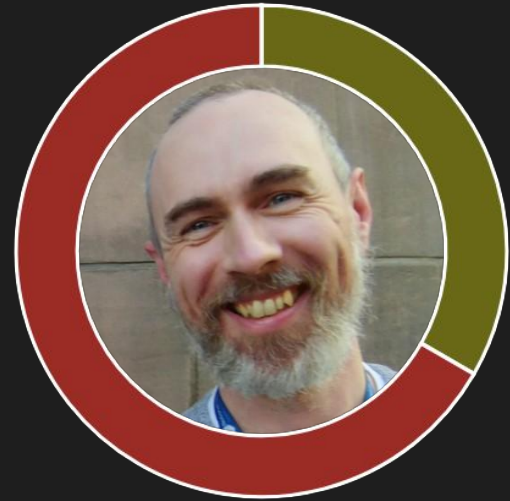
Previously in
Reference Services



Malcolm

Users

Previously in
Special Collections



Rob

Metadata

Previously in
Unlocking Our
Sound Heritage

Library Systems kanban backlog

Work in Progress	Waiting for response	Next	Soon	Future
<p>+ Add task</p> <p>○ Library Juice (Python & Pandas)</p> <p>Due </p> <p>Metadata External Project</p> <p>○ Mackinnon Project</p> <ul style="list-style-type: none"> ○ make relevant changes to transform as a rest ○ awaiting thesauruses and other data from NK ○ Meeting arranged to look at finalising details <p>✓ 4/7</p> <p>Due </p> <p><small>These three sections I have written, however no organised, what are we doing (dig case study)</small></p> <p><small>Who we are:</small></p> <ul style="list-style-type: none"> British Library, National Library of Scotland <p><small>How we're organised:</small></p> <ul style="list-style-type: none"> Agile files Kanban Retrospective Start from same page (start from scratch) Is what was done before? comparison, lack of hierarchy as a positive experience (also links to previous items) <p><small>Case study: Google Books</small></p> <ul style="list-style-type: none"> Came into the project mid-way through project delayed agreed deal by academics, so various problems effect on it/loss Paraphrasing of the products AP/Use Scrap example 	<p>+ Add task</p> <p>○ Europeana stats gathering</p> <p>Contact Aleksandra - aleksandra.strzelichowska@europeana.eu Find out how we can gather stats about the usage of NLS material via Europeana.</p> <p>Library Search</p> <p>○ DMARC for exlibris emails</p> <p>Due </p> <p>○ investigate Library App and get ExLibris demo</p> <p>✓ 1/1</p> <p>Due </p>	<p>+ Add task</p> <p>Alma</p> <p>○ Advocates Library new LMS</p> <p>need to check the configuration of the Advocates Library external search for the MD editor as they move to a new LMS- will also need to change the link to the adv catalogue on Library Search...</p> <p>○ 0/2</p> <p>Library Search</p> <p>○ Advanced search improvements for Library Search</p> <p>the limiters 'Rare Books' and 'Archives and Manuscripts' on the advanced search option do not appear to deliver any results. Other investigations into improving Advanced Search would be useful if possible.</p> <p>✓ 1/2</p> <p>Due </p> <p>Metadata</p> <p>○ NPLD data feeds</p>	<p>+ Add task</p> <p>Alma External Project</p> <p>○ Google Books ingest</p> <ul style="list-style-type: none"> ○ Explore and test workflow for adding digital i ○ check analytics is available to measure usage <p>○ 0/2</p> <p>Metadata</p> <p>○ MIA data update to LS and EFG</p> <p>see wiki 2.5.2 Data Work>Moving Image Archive.</p> <p>✓ 0/4</p> <p>06/26 </p> <p>Metadata Alma</p> <p>○ Alma Dumps process</p> <ul style="list-style-type: none"> ○ Make sets for "All Titles>Titles>*" and "Physi ○ Present these as 'raw' (with workings) to Sara ○ Present 'training' for modifying this through 	<p>+ Add task</p> <p>○ IGeLU Presentation</p> <p>We will need your presentation before the conference start presentation before 2022. Any questions conference@igelu.org</p> <p>✓ 0/1</p> <p>09/05</p> <p>ArchivesSpace Libra</p> <p>○ Honresfield CD C</p> <p>Alison Stevenson go ask for a collection made for the new H estimates it might be of April, so watch out</p> <p>○ Pelican series - se printed on callslip</p> <p>Hi Tara,</p> <p>I believe that for now the only place you c</p>

Google Books: Multivolumes

The Problem



No item records

Most multi-volume records in the catalogue do not have item-level records

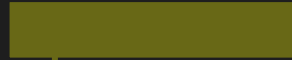
Our Task



Add or exclude multivolumes

If we could not add item records, ~50,000 items would need to be excluded from the project

Discovery



Research Python and Alma API

See if it's possible to use Python and the Alma API to add item records quickly

Implementation



Testing, iterating, implementing

Using the Alma sandbox we tested multiple versions before successfully adding the items

for each row of bibIDs and holdings:

- *call* the **Alma API** to request the **item** record
- *find* the **300\$a field**
- *print* this into a CSV with three columns: bibID, holdingID, 300\$a
- *update* the progress bar
- *move* onto the next row in bibIDs

```
for bibID, holdID in zip(bibList, holdList):
    url = f'https://api-eu.hosted.exlibrisgroup.com/almaws/v1/bibs/{bibID}?view=full&expand=None' \
        f'apikey={apiKey}'
    r = requests.get(url)
    soup = BeautifulSoup(r.text, 'xml')
    vols = soup.find(tag='300').find(code='a')
    with open('300aList.txt', 'a', encoding='utf-8') as f:
        f.write(f'{bibID}\t{holdID}\t{vols.text}\n')
    pBar.update(1)
```


OpenKernels clustering

- 92
- 12 v. (49 rows)
 - 12 v. ; (31 rows)
 - 12 v. ; (8 rows)
 - 12 v. ; (2 rows)
 - 12 v.
 - 12 v.

- 157
- 8 v. (79 rows)
 - 8 v. ; (57 rows)
 - 8 v. ; (10 rows)
 - 8 v. ; (7 rows)
 - 8 v. (3 rows)
 - 8 v. ;

- 121
- 4v. (54 rows)
 - 4v. ; (43 rows)
 - 4v (12 rows)
 - 4v. ; (8 rows)
 - 4v. (3 rows)
 - 4v. ;

for each row of bibIDs, holdings, and list of number of volumes:

- create a **new item** at the bib holding
- write an **internal note** to show this is an auto-generated record
- repeat the amount of times of the row in number of volumes
- update the progress bar
- move onto the next row in bibIDs

```
for b, h, v in zip(bibList, holdList, vollist):
    enum = 2
    while enum <= int(v):
        url = f"https://api-eu.hosted.exlibrisgroup.com/almaws/v1/" \
            f"bibs/{b}/holdings/{h}/" \
            f"items?generate_description=true&apikey={apiKey}"
        data = f'<?xml version="1.0" encoding="UTF-8"?><item link="string"><holding_data link="string">' \
            f'<holding_id>{h}</holding_id>' \
            f'</holding_data><item_data><barcode></barcode><physical_material_type><xml_value>BOOK</xml_value></physical' \
            f'<enumeration_a>v. {enum}</enumeration_a>' \
            f'<description></description><public_note>This item record and volume number was generated programmatically'
        r = requests.post(url, headers=headers, data=data)
        enum = enum + 1
```

300extract.py	Changed all .format to f strings for readability
README.md	Update README.md
add_new_vols.py	Cleared redundant .format now that f strings are used through
bib_allholds.py	Initial commit
bibhold.py	Changed all .format to f strings for readability
bibholditem.py	Changed all .format to f strings for readability
example.env	Added environmental variables and Telegram progress bar
fix_empty_barcodes.py	Updated for full biblist
locationExtract.py	First commit
notesExtract.py	First commit
progress.py	Added environmental variables
removeBarcode.py	First commit
requirements.txt	Updated requirements
update_items.py	Changed all .format to f strings for readability

README.md	Updated README.md
birth-death.py	first commit
childRecs.py	First commit
cm-mm.py	Modifies 300\$c field for cm/mm, ovals, mounts etc

AlmaPrinter Private

Python Updated 11 days ago

OAI Private

Python Updated 15 days ago

GgB Private

Alma API interactions for GgB project

Python Updated 22 days ago

MMK Private

Normalisation and transformation of NGS Mackinnon data

Python Updated on Jun 24