Digital Libraries@UC with DSpace/GLAM

Universidade de Coimbra
(since 1290, Portugal)

Ana Luísa Silva, Ana Maria Miguéis, Bruno Neves, Mário Bernardes
Joint Library Service UC (SIBUC)
Digital Libraries@UC with DSpace/GLAM

UC path regarding Digital Libraries

2010

2013

2019
UC Main requisits and goals for the Digital Library platform

- Promote the dissemination of the cultural heritage of the university
- Simple and user-friendly access by non-technical public
- Good presentation and browsing within each document (IIIF)
- Responsive interface
- Easy way of building new digital libraries/collections
- Smooth data migration
- Interoperability
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Architecture

Alma Mater frontend

nginx

IIIF viewer

WSGI

MariaDB

Python 3.7, Pyramid, SQL Alchemy

public view

admin view

cache

Alma Mater backend

REST API

SOLR API

IIIF API

Dspace-GLAM
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Back-end Dspace/GLAM

IIIF Add-on

IIIF Image API
IIIF Presentation API

SOLR updated configuration for new filters
Author (printer, binder, cartographer, bookseller)
Dates
Subject
Publisher

REST-API (limited endpoints)
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Back-end Dspace/GLAM

Simplified Community/Collection Structure

UC

Serials

Ancient Books

Books

Manuscripts

Movies

Cartography

Correspondence

Photography

Iconography

Music

Title #1

Title #2
Back-end   Dspace/GLAM

Enriched metadata

Metadata fields for item aggregation in the Frontend

eg. uc.publication.digCollection (BG or NC or RD)

Metadata fields for image presentation in the frontend

eg. uc.publication.manifest   uc.publication.thumbnail

Bitstream metadata for IIIF

eg. bitstream.iiif.imageid   bitstream.iiif.canvasindex   bitstream.toc

Metadata fields to implement relations between items

eg. uc.publication.journalTitle   uc.publication.bookTitle
Content Migration

New storage

17 Tb of images/PDF’s

Content migration

5 500 documents
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Back-end  Dspace/GLAM

Content Migration and Curation tasks

- Extract Images from PDF
- Create clean Almamater Item
- Migrate complex Almamater content to new structure

Upload Images to IIIF
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UC Digital Libraries
Future work

New digital collections
Metadata Curation
Simplified format to upload new digitized content (SAF)
Annotation
Enhanced REST-API (New entities...)
Audio and Video streaming
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