Qulto infrastructure for higher education and research

Introduction

The **Qulto Research Infrastructure (Qulto RI)** is a distributed and virtual, domain-independent research infrastructure that provides essential support for the digitization, storage, organization, retrieval, publication, reuse, and search for relevant sources and plagiarism of higher education and research content.

QULTO and DH-LAB linked research infrastructures

A versatile research platform has been created by connecting the Qulto RI, developed with the professional assistance of the Department of Digital Humanities at Eötvös Loránd University Faculty of Humanities, Budapest, with the support of the National Laboratory of Digital Heritage, and deeply embedded in the Hungarian national scientific space.

The above consortium has created a hardware and software infrastructure for the AI-based processing, research, education and publication of national cultural heritage using proprietary language processing applications.

Want to read about use-case project?

The QULTO and DH-LAB integrated research infrastructure provides the following tools:

Workflow tools

- metadata management - Qulto Library
- digitization framework (machine learning assisted OCR, proofreading, DRM) - Qulto Digitize
- optional digital file manager, repository and data repository (InvenioRDM, DSPACE, Eprints, OMEKA, etc.) - Qulto Repo
- source and plagiarism finder - Qulto SimilR
- semantic knowledge base, Wikifier based semantic web building based on metadata,
- TEI XML visualization (e.g. by displaying annotations and other data)
- PDF annotator
- discovery/search - Qulto Discovery

Publishing tools

- thesis manager - Qulto EasyThesis
- e-learning, e-publishing - Qulto ePublisher
- editorial system (OJS)

Data management tools

- data visualization - Qulto Stat
- data and content aggregator

CORE PRODUCTS OF THE INFRASTRUCTURE

Qulto Library

Qulto Library, being an integrated library system, is the main pillar and data source of the university knowledge base.

Qulto ILS simplifies the management of library resourcesand the construction of various catalogs, so with its help, the record databases and digital objects (being the core of services offered to both researchers and students) become transparent and easy to manage.

Digitize

Digitize is a Digital Asset Management System (DAM) that enables the digitization of image and textual content, as well as the management, sharing and delivery of image, textual and audiovisual content as digital objects both to individual users and user communities. This framework has been specifically designed to support education, research, e-learning processes and digitization of public collections.

Repo

With Qulto Repo we encourage the simultaneous use of various repository tools for specific goals, for instance DSpace 7 as the institutional repository for publications and research outputs, and Invenio RDM for textual research items (raw texts, XML formats, etc.) maintained by the researchers' community.

SimilR

Hosted locally or as a cloud service, Qulto SimilR is a software for finding text similarities between text documents. It allows multiple institutional and individual users to perform simultaneous analyses on individual, shared and web corpora. SimilR can be used to (self-) check plagiarism but also a useful tool in the field of digital humanities.

discovery
qulto Discovery
for culture & knowledge

Supporting the professional work of libraries and higher education institutions, Discovery provides a shared online interface to search library catalogs, full-text repository content, research data, online articles, e-publications and e-learning materials.

EasyThesis

A thesis management module born to back the entire process of submission, review and assessment of theses. It acts as a link between the student management system, the institutional repository and the Discovery system.

ePublisher

Qulto ePublisher can handle all the publications that the university press publishes (monographs, learning materials) or the university library acquires in digital format (e.g. e-book databases, audiobooks) or open access digital resources.
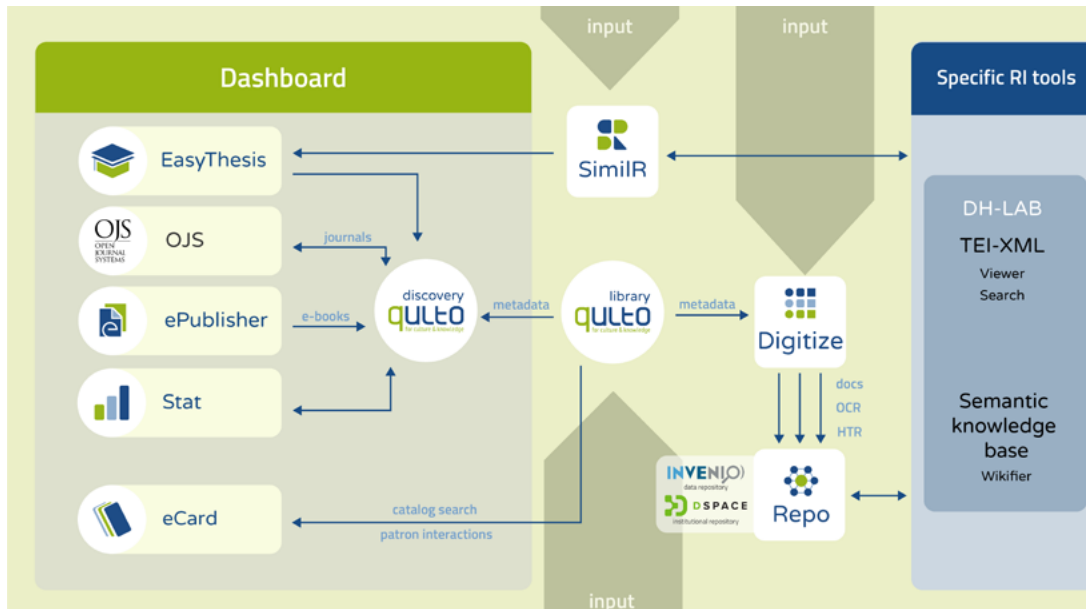
Stat

Our module gives your institution an insight into workflows and interactions taking place both in the institution and Qulto services. Monitor staff efficiency, habits of visitors to your virtual platform or data traffic through the entire system and server.

Dashboard

All the services are connected to the researcher/student dashboard which is individually customisable web interface. The dashboard ensures the integration of the identifiers used in various research spaces (ORCID, scopusID, Google Scholar ID), so that the logged-in user's own content can be presented immediately.

Need any help? Get in touch with us!
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