

Requirements for a Digital Library System: A Case Study in Digital Humanities

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Problem Statement

How can a digital library design effective access paths to their underlying collections?

User Study

 Seven senior researchers from digital humanities



- 30-minute online sessions
 - 5 min. study introduction
 - 15 min. workflow description
 - 10 min. semi-structured interviews
 - Questions about their 1) workflows 2) ideal conditions and 3) challenges

User workflows:

- Several information sources
- Searching with keywords
- Result lists and relevancy
- Working with the material

Users disliked:

- Missing linkage of archives
- Finding the correct archive
- Self-scans in libraries
- Searching for multiple languages

Concluded System Requirements

- Digitizing the Context Scanning and OCR processing
- Keyword-based Search Apache Solr, Elastic Search
- Federated Search Allow search for metadata of multiple connected systems
- Multilingual Retrieval Rewrite queries with vocabularies/ multi-lingual embeddings

Language Translation

LLMs come with a reasonable quality but low-resourced languages and hallucinations exist

Context Exploration

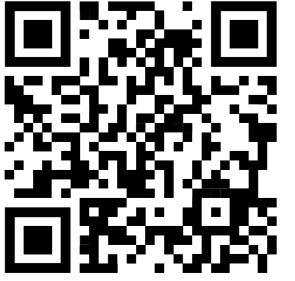
Metro maps, connected papers, advanced access paths

Arrangement and Structuring

Area scanning (similar article topics)

Thanks!

Technical Report:



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