



R&D @Laval University Library

A look at the digital initiatives of Laval University Library

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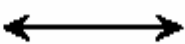
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CONSEILLERS À LA DOCUMENTATION

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Laval University Library involvement in digital initiatives

1. Digitization projects :

- NML/ECO (Notre mémoire en ligne/Early Canadiana Online)
- Our Roots/Nos Racines

2. E-publishing initiatives

- ERUDIT (scholarly journals and eBooks)
- ETD's (Electronic thesis and dissertations)
- ARCHIMEDE (research publications institutional repository) + LIUS (indexing framework)

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Born digital materials : a challenge and a new role

- While investing in large digitization projects mainly targeted on materials of the past
 - We were also concerned :
 - With the vast array of *born digital* materials
 - We wanted to organize efficiently the intellectual production of our University
- ...So we got involved in e-publishing

Laval University Library involvement in e-publishing

Our Institutional Repository Components:

- ERUDIT (scholarly journals and eBooks)
- ETD's (Electronic thesis and dissertations)
- ARCHIMEDE (research publications institutional repository) + LIUS (indexing application)

[We don't want this:]



- Partners: Univ. Montréal, Laval and UQ
- +10 000 articles ± 50 scholarly journals
- XML Workflow
- Automated derivation of XHTML files
- 2 XML production centers : UdeM and UL
- Recent partnership with France' CNRS -
Metadata interoperability and
technology transfer

- Joint project Library / School of Graduate Studies
- Semi automated - based on a document Model used by the students
 - Ms Word, Latex, Open Office → XML
- In House Assistance
 - During the writing period and the submission + WebCT documents
- Automated dissemination to National Library of Canada using Open Archive Initiative Metadata Harvesting Protocol (OAI-MHP)
- Welcome to ETD2006 !

What is Archimède ?

- An institutional repository system, conceived and developed at University Laval Library by Rida Benjelloun and Nicolas Bélisle, hosting publications and data of Laval research communities
- Has been developed from a range of Java technologies and full Open Source applications and is freely available through a GPL Licence
- A decentralized system arranged around auto-regulated research communities.
- Detailed description in the Soros Foundation « Guide to institutional repository software »
- Article to appear in *Library Hi Tech*

Why Develop Our Own System Instead of Using an Existing Open Source Solution?

- Internationalization (i18n)
- Index metadata AND full text And different format types
- Multiple format importation and exportation through XSLT transformation
- Multi-platform
- Small budget

Archimede Components (part1)

The system can be divided into 5 modules :

- 1. A **securized module** based on privileges.
 - 5 user types :
 - * Visitor
 - * Community user
 - * Community member
 - * Community administrator
 - * System administrator

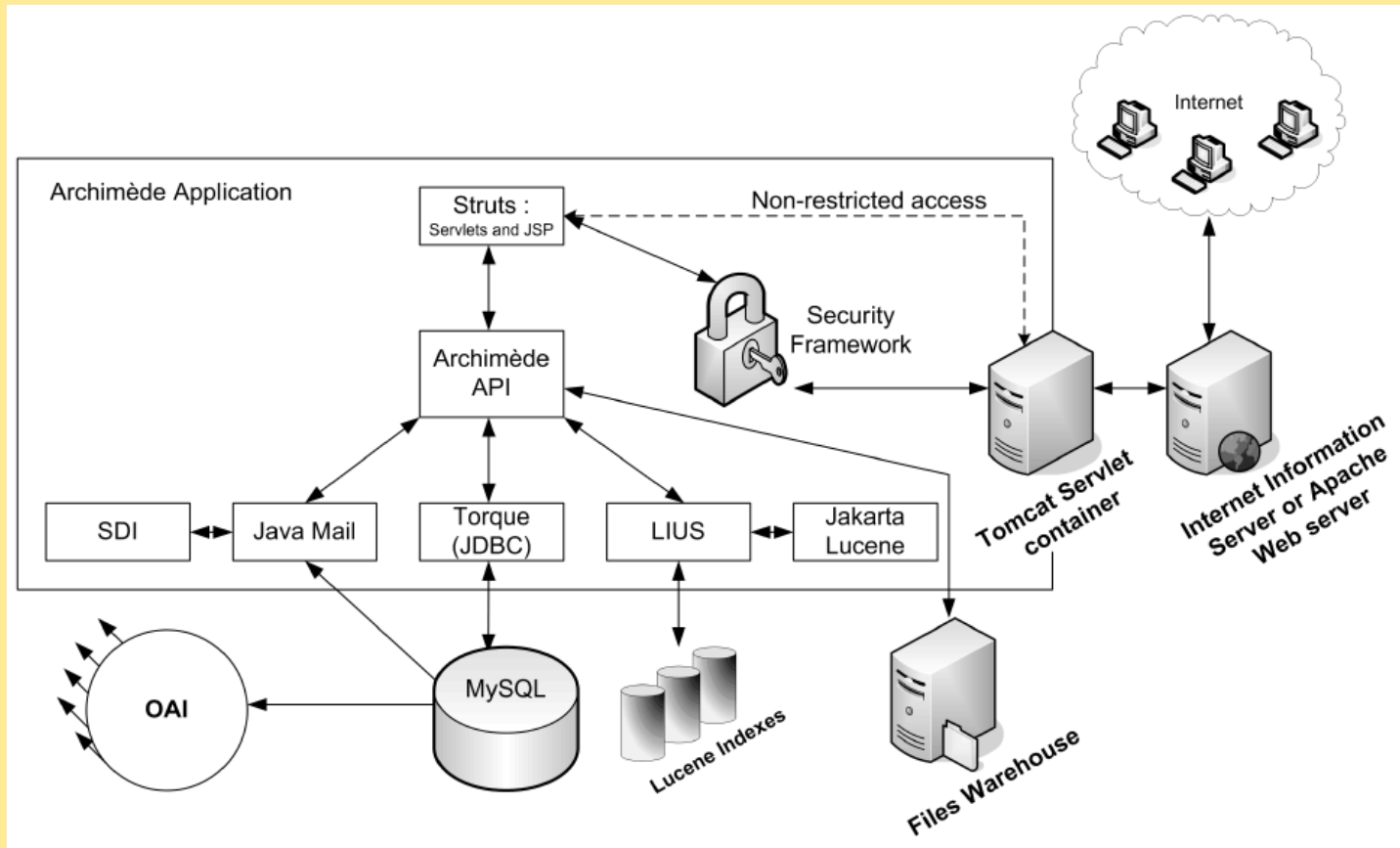
Archimede Components (part 2)

- 2. A securized module for **uploading several documents at the same time**, with forms to enter metadatas. The files are hosted in virtual folders that restrict access to authorized users only.
- 3. A **navigation system** and a powerful **search and indexation tool** that ensure precise access to content.

Archimede Components (part 3)

- 4. The system is structured on a repository structure that is **OAI compliant**, using a Dublin Core metadata set. (example <http://carl-abrc-oai.lib.sfu.ca>)
- 5. A **selective dissemination** system is available to keep users informed about new uploads.

Archimède technological architecture



Conclusion - Laval University Library digital initiatives

- Common patterns :
 - Commitment to partnership and cooperation in and outside library expertise
 - Commitment to large-scale projects
 - Commitment to standards and best practices
 - Commitment to long-term preservation and accessibility (through standards)
 - Commitment to open access and interoperability
 - Commitment to research and development

URLS

- Archimede university Laval implementation
<http://archimede.bibl.ulaval.ca/>
- Archimede documentation
<http://www.bibl.ulaval.ca/archimede/>
- LIUS documentation
<http://www.bibl.ulaval.ca/lius/>
- SourceForge Open source distribution :
<http://sourceforge.net/projects/archimede/>
- <http://sourceforge.net/projects/LIUS/>