

Using a Content Management System as a front-end to a Digital Library System

Improving Usability and Customisation

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Department of Computer Science, UCT

20 August 2009

The State of Digital Library Systems

- ▶ Institutional Repositories are powered by Digital Library Systems

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 - ▶ Mostly Research
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- ▶ Integration with existing Website
- ▶ Customise Look & Feel



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 Games Specialisation
highlighted in Sunday Times
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 Imagine Cup SA 2009
2009-08-06

 New ICT4D Research
Centre 2009-08-06

 BCS Accreditation for
Degree 2009-08-06

 Vacancy: Senior Lecturer
2009-08-06

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For more information about the department, follow the links in the menu.

Announcements

[VACANCY: Senior Lecturer](#) [advertised mid-2009]



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Welcome to the [UCT Computer Science](#) Research Document Archive, which archives and makes accessible documents that are products and by-products of research in the department.

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Welcome to DSpace at MIT, MIT's online institutional repository - built to save, share, and search MIT's digital research materials.

DSpace at MIT contains MIT Research in digital form, including preprints, technical reports, working papers, theses, conference papers, images, and more.

DSpace does not contain "all" MIT's research and is limited to digital research products. For items in print, please go to [Barton: MIT Libraries' catalog](#). DSpace is growing rapidly, check back often.

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University of Cape Town Lawspace

Welcome to UCT Lawspace - A Digital Repository of research done in the Law Faculty at the University of Cape Town! For questions regarding the Constitutional Assembly Database, please contact the Constitutional Court Library (Simphiwe Yako).

This Repository is managed by Tobias Schonwetter (PhD candidate, Department of Commercial Law) and administered by Sue Wright.

The individual authors hold the copyright in the works on the Repository. In the interests of education and research the managers of the Repository support a broad and user-orientated interpretation of the South African fair dealing provisions. The managers encourage authors and copyright-holders to submit work to the Repository under the [Creative Commons South Africa License](#).

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About UCT Lawspace

At present the Repository holds a selection of LL.M. Minor Dissertations in full text. Dissertations (including Ph.D. and Masters Dissertations), publications and conference papers will be added regularly.

Click here to access the [UCT Law Faculty's website](#)



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Number of full text items archived since January 2006: 8 593

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UPSpace supports Open Access!

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[UPSpace Submission Guide](#) or follow the [animated tutorial](#)

[UPSpace Quick Guide](#) (add-on to Submission Guide)

[Download Adobe Reader](#) to access .pdf files

Need to type a special character?

Closer look at DLS

OAI API

Web UI

Batch Interface

Access API

Search API

Manage API

Digital Library

Curated Objects

The problem

- ▶ No separate *Theme*

The problem

- ▶ No separate *Theme*
- ▶ Hard to customise
 - ▶ Web developers can't write XSLT

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- ▶ Hard to customise
 - ▶ Web developers can't write XSLT
- ▶ Website integration is non-trivial

Content Management Systems

- ▶ Basis of most modern websites

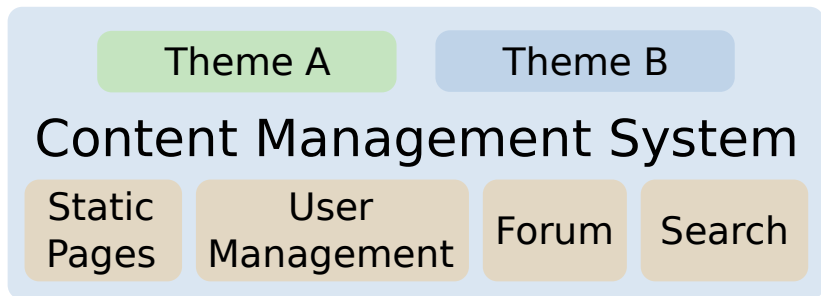
Content Management Systems

- ▶ Basis of most modern websites
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- ▶ Designed for modification & redesign

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- ▶ Known by Web designers

CMS Modularity





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Search Site



Durban

The Official Site of the City of Durban

WELCOME TEXT SIZE: A A A

EMAIL A FRIEND PRINT PAGE

Sitemap



Discover Durban

Invest Durban

City Government

City Services



Most Important numbers

General Enquiries:
031 311 1111

Fire Department &
Metro Police
031 361 0000

Water and Traffic Hotline
080 131 3013

Online Tools

- Goods and Service Quotations
- Quality of Supply
- Community Profiles
- Check your Lights, Water & Rates Balance
- Press Releases and Newsletters
- Fresh Produce Price Reporting



Lookout Durban: Here Comes 2010

Tourism Minister Marthinus van Schalkwyk last week unveiled a mural in Durban at a prime site overlooking the Moses Mabhida Stadium. > [READ MORE](#)



Gentle Touch At Roadblock

Motorists breathed a sigh of relief last Friday when they were stopped at a Metro Police roadblock on Bram Fischer (Ordinance) Road and were given friendly ... > [READ MORE](#)

Stadium, Beaches Lauded

EThekweni's Moses Mabhida Stadium recently won a top regional award for excellence and innovation in the use of concrete. > [READ MORE](#)

Mayor's Blog

South Africa has an interesting struggle history.



TRAFFIC CAMS



MAPS



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JOBS



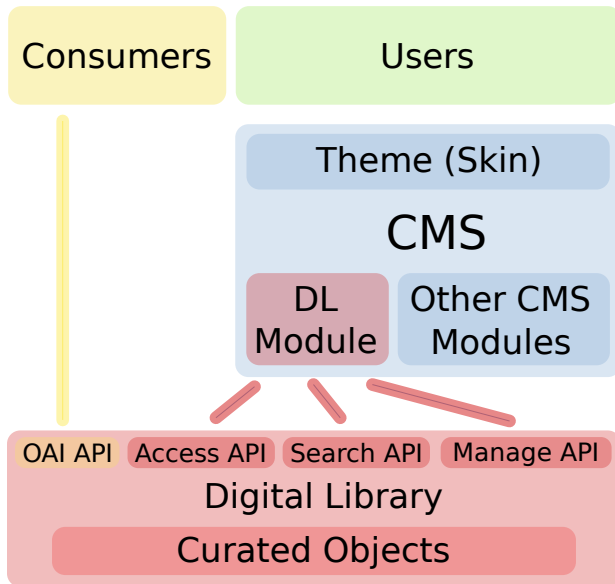
MEDIA & PUBLICATIONS



VALUATION ROLL

VISIT THE WEBSITE

Proposed Solution



Research Questions

- ▶ Usability Advantage?

Research Questions

- ▶ Usability Advantage?
- ▶ Effective in the real world?
 - ▶ Not too complex?

Evaluation

- ▶ User Study

Evaluation

- ▶ User Study

- ▶ Case Study

Timeline

1. Preparation
2. Development
 - 2.1 Evaluate Base systems
 - 2.2 Prototypes
 - 2.3 Complete: Ingestion, Browsing, Search
3. Experiments
4. Conclude Writeup

Risks

- ▶ Scooped by Islandora

Risks

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- ▶ Implementation takes too long

Risks

- ▶ Scooped by Islandora
- ▶ Implementation takes too long
- ▶ CMS simply unsuitable

?