Introduction to Digital Libraries

UCT CSC4000w/4003w – Final Exam – June 2008

UCT Computer Science has decided to create an archive of past exam and test papers, adhering to the best principles of digital libraries.

You have been asked to design a custom software system for this archive. There is an emphasis on metadata and basic search facilities, but the department also would like to see other useful services in the system.

As an outline for the design document, you have thus decided upon the following:

- Introduction to Digital Repositories
- Metadata
    - Internal metadata format, mapping to Dublin Core, etc.
- Search Engine Design
    - Core algorithms and relevant features
- Discussion of additional services
- How preservation will be effected
- How the system will deal with Intellectual Property Rights
- What interoperability interfaces the system will have
- References

Your task is to complete the design document, following the outline above, focussing on the metadata and search engine design, and including any additional sections on major issues that you deem important.

Do not discuss specific tools that may be used to meet the design goals.

You may assume that the requestor of the report already knows about underlying technology such as XML and databases. Otherwise, clearly state any assumptions and include reasons for decisions wherever applicable.

You may consult any reference materials (paper or online), but you MAY NOT discuss the problem with any individuals.

Format your document as 12pt Serif (Times Roman), 2.54cm margins, single-spacing. Your document must not exceed 3000 words and must not number more than 8 pages, including figures, tables and references. Include all references to documents consulted.

Submit a **printed copy** to the CS admin office (Jane Wright or Salegga Valley) by 12 noon, _____ 2008. No late handins or electronic or handwritten solutions will be accepted.

UCT-CS : CSC4000W/4003W : 2008 : Intro. to Digital Libraries

Final Exam Marksheet

Name :

Total Mark :

Marker : **hussein suleman**

Criterion	Mark	Max±
Introduction to Repositories		10
Metadata		30
Search Engine		30
Other services		10
Preservation		5
IPR		5
Interoperability		5
References		5
Data storage		5
Encoding of data/metadata		5
Software/component architecture		5
Roles and roles management		5
OSS Distribution		5
Identifiers		5

Comments: