Institutional VLE - Library Integration at the University of Ulster

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University of Ulster Overview

- 4 physical campuses
- Virtual campus launched October 2001
- [http://campusone.ulster.ac.uk](http://campusone.ulster.ac.uk)
Why integrate VLE and Library systems?

- Courses (traditional and virtual) require supporting resources
- Campus based students have ready access to the library and all its services
- Remote users may not appreciate library services available
- Need to ease and integrate access to knowledge resources for all students
Approach to Integration

VLE COURSE AREA

- E-JOURNALS
- LIBRARY CATALOG
- LIBRARY WEBSITE
- PAST EXAM PAPERS

LIBRARY RESOURCES

SUPPORT

INTERNAL RESOURCES

EXTERNAL RESOURCES

CONTEXTUAL LINKS TO LIBRARY RESOURCES, SERVICES & SUPPORT

www.ulster.ac.uk
Background

- 2000/01 institutional e-learning infrastructure
- 2001/02 Library introduced TalisList
- Summer 2002 UU was test site for
  - WebCT-TalisList integration
  - Devolved Athens Authentication
- 2002/3 JISC DiVLE funding for ‘4i Project’
4i Project Objectives

• To fully assess the impact of institution wide VLE-Library system integration on library business processes and the user experience.

• To further develop technical integration methods to facilitate better interoperability between diverse systems and platforms, and across institutions.
Challenges of Integration

If students are enrolled for a module, we know quite a lot about who they are and what they are likely to be studying.

i. Can we provide all users with a contextual view of library and other appropriate resources/services?

ii. Can we facilitate seamless authentication to protected resources for bona fide UU users?
Realising VLE - Library Integration

• A common, granular view of the library necessary – **TalisList**
• A means of passing on ‘user’ and ‘module’ information between systems - **LSP**
• An integrated approach to authentication – **AthensDA**
“TalisList is a web-based system designed to manage collections of resources, such as reading lists associated with a particular course/module/subject.”
### Required Reading (4)

- Gazdar, Gerald. - Natural language processing in PROLOG - Wokingham : Addison-Wesley, 1989. - 0201180537
- Reiter, E & R Dale - Building Applied Natural Language Generation Systems; in Natural Language Engineering, 3(1), 1997

### Recommended Reading (2)


### Useful Journals (3)

- Natural language engineering. - Cambridge : Cambridge University Press. - 1351-3249

**Alternative source:**
- Electronic access available through SwetsnetNavigator
- Machine intelligence. - Chichester : Ellis Horwood. - 0541-6418

### Conference Proceedings (3)

- Below are links to sample conference proceedings held in the library. Please search the library catalogue using the appropriate abbreviation, eg. AAAI, in keyword search to locate other relevant proceedings.
- UU Library Catalogue

### Other Web-Based Resources (1)

- The Association for Computational Linguistics
- The Association for Computational Linguistics is the international scientific and professional society for people working on problems involving natural language and computation.

### Past Exam Papers (1)

- Access to online exam papers is only available to UU staff & students from university networked PCs.
- COM516C2 Semester 2 2001
- Further past exam papers are also available from the Library, ask at the issue desk.
“The Library Service Point (LSP) acts as middleware picking up requests from the institutional VLE and routing them onward to the appropriate Library service or resource.”
Engagement with Library staff identified 3 tiers of library links within WebCT course areas:

- Institutional (library homepage)
- Subject guides
- Module Resources (Talislist)

In addition:
- Gateway to further contextualised library services
Important announcement this is a course area based on a fully on-line module from the University of Ulster's MSc in Biomedical Science. The content of this module is not visible for the purposes of this presentation.

Look in 'Module Information' below for details on the aims and learning outcomes for this module, required and recommended reading, and some guidelines for studying this on-line module.
Welcome C M UHOMOIBHI

Your account summary:

Charges: £0.00

**Loans:** 1 loan, 1 overdue

Reservations: 0 reservations

Inter-library loan requests: 0 active out of 999. Total: 15 out of 999

Bookings: 0 bookings

**Loans: 1 overdue**

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<th>Loan Type</th>
<th>Due Date</th>
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To renew one or more loans:
1. Click on the box to the left of the title(s) you wish to renew
2. Click on Renew Loan
Important announcement this is a course area based on a fully on-line module from the University of Ulster's MSc in Biomedical Science. The content of this module is not visible for the purposes of this presentation.

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Area Index
Library Services
- The Library
- Site Map
- Library Catalogue
- Faculty Subject Guides
- Electronic Information Services
- Full Text Electronic Journals
- Exam Papers
- Search the Library

Life & Health Sciences
- Life & Health Sciences Subject Team
- Library Newsletter
- Recommendation for Book Purchase
- Faculty of Science

Contact Details
- Faculty Subject Enquiry
- Comments, Compliments, Complaints
- Contacting Library Staff
- Comments on Web Pages

Faculty Subject Guides - Life & Health Sciences

Electronic Resources:
Databases

Internet Subject Guides:
Biology

Campus Subject Guides:
Coleraine Library

Library Catalogues:
UU Library Catalogue

Resources for E-Learning Courses:
Checklist for Biomedical Science

News
New Available Online: Checklist of Nursing Resources at Coleraine Library (pdf)
Revised: Information & Resources for Disaster Relief Nursing
New Campus Subject Guide (Jordanstown): Resources for Midwifery
New Databases
The Library now subscribes to Cancer Handbook and to the Encyclopedia of Life Sciences following the success of recent trials.
[More Details]

More News...
Haemopoiesis and red blood cell function

Home

Important announcement: This is a course area based on a fully on-line module from the University of Ulster's MSc in Biomedical Science. The content of this module is not visible for the purposes of this presentation.

Look in 'Module Information' below for details on the aims and learning outcomes for this module, required and recommended reading, and some guidelines for studying this on-line module.
search for Module code equals "bms813c2x" matched 1 Module:

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<td>Required Reading</td>
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<td>The Thalassaemias</td>
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<td>Haemoglobin, Structure and Function</td>
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<td>FAB Classification</td>
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<td>The Leukaemias and Minimal Residual Disease</td>
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<tr>
<td>Cytochemistry of the Leukaemias, Immunophenotyping and Flow Cytometry</td>
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LSP Benefits

Learner
- Seamless access to customised services and resources.

VLE
- Reduced maintenance as LSP and TalisList URLs are maintained by the Library

Library
- LSP authorises ‘trusted’ access to other internal library services after local authentication in VLE.
- Promotes student utilisation of resources and services
- Reduces helpdesk queries

Challenge: Seamless access to externally hosted resources
“Athens is a secure Single Sign On service with over 200 participants from leaders in online scholarly publishing”
Athens Single Sign On Service

- Extensive account management facilities with individual usernames and passwords, administered by Library
- Alternatively Devolved Authentication capability can integrate with an institutional system e.g. LDAP
  - Option to use local username instead of an additional Athens one.
Point of Authentication?

LAA Mode

User → Virtual Learning Environment (VLE)

User → Library Management System (LMS)

User → Institutional Directory Service

HDD Mode

User → Data Service Provider (DSP)
UU Athens DA Implementation

Current model:
- WebCT - authentication role
- LDAP - authorisation role
- Athens LAA mode
  (Local Authentication Assertion)

Live - Semester Two 2002-03

Fully LDAP AA: 2003-04
Benefits of Integrated VLE-Library Authentication

- Reduce number of access credentials
- Effectively pre-authenticates WebCT users to Library systems and resources - users “ready to go”
  - Reduces user education
  - Simplifies existing “helpdesk” issue
  - Promotes user awareness of available services
To Log on and access your WebCT Courses:

- Type your User Name and Password (Please type in lowercase)

**Usernames:**
- Students: Your User Name is your UU student registration
- Staff: Your User Name is your UU staff number

**Initial Password** Unless you are specifically informed otherwise by your course director / facilitator, your initial Password is set to your date of birth in the format ddmmyyyy (for example 9th February 1982 = 09021982). You should change your password as soon as you gain access.

- Click "Log On".
- This will take you to your personal "my WebCT" page which provides access to all the courses you are registered for.
Login Announcement

Your login has been verified and an Athens session has been established. You can now access Athens-protected library resources without having to enter your personal Athens username and password.

Further details are available from the 'Athens' link at the bottom of your MyWebCT page.

This window closes automatically after 10 seconds
Haemopoiesis and red blood cell function

Home
Haemopoiesis and Red Blood Cell Function (bms813c2x) (Semester 2)  B Gilmore

View list of Athens-protected online resources you can access. (0)

Required Reading (10)

The Thalassaemias (5)


Alternative source:

Olivieri NF. The b Thalassaemias (Review Article). New England Journal of Medicine, 1999; 341:99-109 (Paper holdings in Library)

The role of laparoscopic cholecystectomy in the management of acute cholecystitis in patients with sickle cell disease. The American Journal of Surgery, 2002; 183 (6): 668-672 (Electronic version available from ScienceDirect)


Alternative source:
British journal of haematology. - 0007-1048 (Paper holdings in Library)
The role of laparoscopic cholecystectomy in the management of acute cholecystitis in patients with sickle cell disease

Abdulrahman Saleh Al-Mulhim, Faisal Mohammed Al-Mulhim and Abdulmohsen Abdulla Al-Suwaiygh M.B.B.S.

Department of Surgery, King Fahad Hospital, Hofuf, P.O. 1164, Al Hassa 31982, Saudi Arabia
Laparoscopy

The role of laparoscopic cholecystectomy in the management of acute cholecystitis in patients with sickle cell disease

Abdulrahman Saleh Al-Mulhim*, Faisal Mohammed Al-Mulhim, Abdulmohsen Abdulla Al-Suwaiygh, M.B.B.S.

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Manuscript received August 10, 2001; revised manuscript December 21, 2001

Abstract

**Background:** As emergency surgery in sickle cell disease patients is associated with high morbidity, the aim of the study was to assess the safety of laparoscopic cholecystectomy in the acute state for these patients.

**Methods:** Over a 5-year period, April 1994 till December 1998, 35 sickle cell patients with acute cholecystitis had laparoscopic cholecystectomy within the first 5 days of presentation. A retrospective study of these was undertaken.

**Results:** Thirty-five patients were diagnosed as having acute cholecystitis with sickle cell disease. There were 26 female and 9 male patients;
Overall Benefits

Opportunities arising from an integrated, interoperable, institutional approach to VLE-Library system implementation include:

- Streamlining of library business processes
- Simplified user education
- Reduction in helpdesk queries
- Increased usage of electronic resources
Interoperability constraints of current approach

Library integration achieved at course level. Implications of this include:

– Managed at the designer level
– Changes must be done at the course level (1’000’s of courses.....)

Working towards a metadata facilitated VLE-Library integration
Interoperability Liaison

UU liaising actively with:

• Vendors, in particular WebCT, Talis and Athens
• Interoperability standards development fora (IMS and related communities)
• Academic partners(UKHEP)

UU provide large scale experience in the important, emerging area of VLE - Library integration
A project funded under the JISC DIVLE (01/02) Programme

The University of Ulster was granted funding from the Joint Information Systems Committee (JISC) to further develop a working model upon which to fully integrate its VLE and library systems. This work was undertaken in 2002/3 to provide WebCT users with personalised and contextual linkages to library resources and services along with seamless access to protected resources. The 4i Project (Interoperable, Institutional, Integrated, Implementation) builds on preliminary development work undertaken in 2001/2 and has scaled up these activities in order to assess the impact of an institution-wide VLE-Library system integration on library business processes and the user experience. It also seeks to inform further development of technical integration methods to facilitate better interoperability between diverse systems and platforms. This is being conducted through the IMS forum.

The project is part of the JISC’s Linking Digital Libraries with VLE’s (DIVLE) programme which addresses pedagogical and organisational issues of linking digital library systems and virtual learning environments.