ISYS3207 All Proposed Projects

ID 1  Content management system  Organisation  Aust Consumers' Association

Brief Description of Project:
The Australian Consumers’ Association is a not-for-profit organisation that publishes consumer
information, tests products, and lobbies on consumers behalf. We publish:
- a monthly consumers’ magazine, CHOICE ™, circulation over 100,000.
- Australia's biggest subscription website, www.choice.com.au, 40,000 members
- a bimonthly computer magazine, Computer CHOICE ™
- a quarterly policy and debate journal, Consuming Interest
- a monthly health newsletter, CHOICE Health Reader
- a raft of non-fiction, consumer-based books, CHOICE Books
We have a laboratory testing unit for CHOICE, Computing CHOICE and CHOICE Online, and
independent, outside product testing.
The project is to design and cost a content management system (CMS) that will allow content produced
throughout the organisation to be used in the various publications (both paper and online) and possibly to
be reused via emerging technologies (such as SMS, broadband or interactive TV).
The CMS may be commercially available system, purpose built from a number of commercially available
systems that interact. Support for the system and its inherent cost is an important issue as there will be
very little expertise in-house to deal with ongoing problems that may arise.

ID 2  Personal archive manager  Organisation  Archaeology Department

Team

johnson@felix.acl.arts.usyd.edu.au

The basic idea is you drop files into one or more folders designated as archive folders, which are for files
you want to store safely and use occasionally (or frequently but in read-only mode). One of the problems
we - and others - have is that we have no way - other than finding it's disappeared - of knowing that files
we store on our server are still there, and if it's only used occasionally that can be a year after it
disappears by which time it's hard to get it back from backups. We also need to be able to restructure
occasionally while maintaining integrity. This is a pretty general problem, and one that I think is not hard to
solve, as per the below ideas. The idea is you know when something gets changed and can fix it while it's
still fresh and still in online or nearline backup.

The program would track any changes in the folders you designate as archive folders (new files, or files
with changed checksums, or which have disappeared), list them (perhaps also emails details for remote
monitoring) and allow the user to OK deletions or changes. When files disappear e.g. b/c folders have
been moved or files have been renamed, you can either tell the program where a folder has been moved
(and it should check the result) or where to look and it will attempt to relocate any missing files through
name and/or checksum. Finally it will report all the ones it can't find so that the user can decide they have
been validly deleted or can get them back from backup.

The program might also have functions for reporting on the folders it manages, tracking change history
and so forth. You could also start to store metadata about files, but I think that is a bigger project and not
necessary b/c one can still find and open things with a file manager – the idea is to provide monitoring and
work with, not to replace, the file manager.
ISYS3207 All Proposed Projects

ID 3  Knowledge/bibliography manager  Organisation  Archaeology Department

johnson@acl.arts.usyd.edu.au

Team  E

The problems with bibliographic programs like EndNote include 1. they are not based on a proper database so store lots of redundant data e.g. for authors and editors; 2. they do not allow several people to maintain their own versions e.g. personal notes on entries, without duplicating generic info (bibliographic references); 3. they don't allow several people to share some references without sharing all references - I may not be interested in widgets, my colleague may not be interested in jinamugs, but we're both interested in supulamons; 4. they're not very good at dealing with generic knowledge snippets rather than conventional publications.

This project would be to scope out what is REALLY needed in bibliography programs - more generally in a knowledge manager, since much information these days is in web pages rather than normal hardcopy publications - and design an SQL database (or an XML or object database) to manage such a system. We have quite a bit of experience in developing partial solutions to this, and can provide a test case (including data).

The software needn't duplicate all the functions of bibliography managers, such as formatting references and importing dozens of formats - why invent the wheel - but shouldl be able to import/export one common format - eg. EndNote Refer format - so people can easily slip to and fro into a bibliographic program for capturing or formatting references. Then the trick is to keep track of changes so that the central database can be kept up to date and individuals can grab what they need into their bibliography program or update the central database without creating duplicates. So it's as much about workflow management and slave/master relations as about programming a bibliography database.

ID 4  British Council  Organisation  British Council

Autonomous monitoring and reporting on information currency and activity on affiliated websites:

Team  W

The British Council has a huge web presence across multiple domains and many countries, but due to different departments all publishing in different ways and it is difficult to determine how often these and affiliated sites are being updated.

The Council has an Australian office in Edgecliffe that has contributed significant projects to the global British Council presence.

Apart from British Council Australia country sites there are hundreds of BC sponsored sites out there publishing information on all topics from the Arts to Education, Human Rights and Governance etc. This project would entail the development of a system to monitor and report how often affiliated websites are updated and therefore which are the best to promote from their own website and on which to push additional information.

The client representative would be Dan Pulham at the British Council Australia.

ID 5  Membership Management  Organisation  University of Sydney Library

Membership Management Database for VEIN Community

Team

To create a membership management system to help manage current members and track contact with them. It will also need to manage leads i.e. potential members, and provide us with ways of analysing our membership base.

Remarks:

VEIN Community is an information service for animal health professionals in the community. Members can access subject based databases, and article and book delivery service and assistance and advice from information specialists
ISYS3207 All Proposed Projects

ID 6 Veterinary Education Website  Organisation University of Sydney
Jane Barton or Su Hanfling, Badham Library
Phone: x13775/x15426  Team R

Brief Description of Project:
The Veterinary Education and Information Network (VEIN) website was developed as an information portal for animal health professionals in education, industry and practice. The site is a static one and was developed and maintained using hardcoding. The site has grown in size and is becoming increasingly unwieldy to maintain and grow. The search facility also isn’t very useful for clients. Databasing will help create a dynamic site which can be easily maintained and which will also provide a stable platform for future collaborative projects with other organisations. Databasing the site will also improve searchability for clients.
Remarks:
See website : http://vein.usyd.edu.au/
Particularly the large links page http://vein.usyd.edu.au/links/index.html

ID 7 Disability Services  Organisation Disability Services
Managing Disability Services in the University of Sydney  Team V

First Project:
Relating to information on their website regarding disabled access to buildings on campus. There is an existing database and website for staff and students to search particular buildings and check to see if they have disabled access/facilities etc, but that it is not complete.

Second Project:
Involve developing an online system for students (those registered with disability services) to complete questionnaires. We would not have to create the actual questionnaires - these are already done. But we would have to create an online facility for students to complete these questionnaires, and then create a database for the information.

Third Project:
Involve their current note-taking scheme. Basically, students scan their notes (using a digital photocopier) and these are emailed in PDF format to those students requesting them. A possible improvement would be to make these notes accessible on the web.

ID 8 Postgraduate Research Progress  Organisation Sydney University
To design a PG research portal, which will be accessed by students and staff.  Team
Objective: manage P/G student research progress
Should take account of existing systems

ID 9 Mentoring  Organisation University of Sydney
System to manage mentoring and IT alumni records  Team G

ID 10 Tutor website  Organisation University of Sydney
To design web site for management and allocation of tutors to teaching tasks.  Team
To design web site for management and allocation of tutors to teaching tasks.  Team L
Customer support service

The problem I have here is that I run a web site, Contact Database and helpdesk software. I am wanting to provide a streamline knowledge base for my customers which is quite difficult because I have to enter data into 3 different packages. These applications are designed to talk to each other but require some thought and design to make that happen.

I require

- the ability to easily update my website
- auto respond to customers through looking up knowledge bases
- design of reports and auto mailers updating customers with product and update information
- contract management
- document collation upon placing orders
- setup of backup and client ghosting to simulate client problems.

I believe our current software is capable of doing this.

"Paris" Course Management

The AAFC is currently rolling out inline cadet administration system "Hector", a web-based system that tracks all aspects of cadet and staff service. However, it does not facilitate the administration fo B+ yearly promotion courses.

The administration of these courses remains wholly paper-based, and this causes problems when information needs to be extracted to conduct the courses. Afterwards the results and qualifications need to be entered back into the system.

"Paris" needs to be web-enabled, with same technology as, and similar look and feel to "Hector". It should accept staff/cadet details for import and produce required outputs. It must follow business-rules described in "Manual of Cadet Training" (MoCT) and "Policy Manual" (POLMAN), and provide the outputs detail in these publications.

Real Estate Management System

Management requires an information system that manages both rental and sales information, sorting the information, producing ads., reports etc. Would be very useful if available on line.

Human Resource Database

Client requires a database for storing, tracking, modifying employee and project details for each 'roll out' project in construction management, training, succession plans. 'Hi-Pot' plans is to be included for risk management and employee progression.

Not yet allocated

Team

Project Jaze

Designing an online system to receive, track and report on clients' requests for web updates and associated services.

Main feature:
- * ability for clients to log job requests and or questions
- * ability for Jaze to track requests through a number of statuses, e.g responded to, quoted, in-progress, approved, completed
- * log hours spent on job with calendar time

Reports:
- * clients and jobs
- * time spent on jobs
- * invoices
### ISYS3207 All Proposed Projects

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<td>Project Mercury</td>
<td>Sydney Uni Village</td>
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<td></td>
<td>To develop an electronic administration system for Sydney Uni Village in order to increase efficiency, client and customer satisfaction and reduce error and operational costs. The system will replace the current paper-based processes for parcel collection, vacuum lending and various tasks. The intention is to automate certain administrative duties.</td>
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<td>18</td>
<td>Investment product management</td>
<td>JSWD Investments</td>
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<td></td>
<td>Improve storage, maintenance and accessibility of data relating to JSWD products. To streamline processes that are used to determine different types for specific customers.</td>
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<td>19</td>
<td>AEA Grand Apartments</td>
<td>AEA Grand Apartments</td>
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<td></td>
<td>AEA is a holiday apartment management company. The director wishes to automate online booking. It currently uses an online form which is sent to the reservations manager who consequently makes the booking. The project should develop an online booking system that checks availability automatically and provides immediate booking information and credit card verification.</td>
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<td>20</td>
<td>Web-based learning</td>
<td>Greythorn</td>
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<td></td>
<td>Greythorn is an IT recruitment consultancy company that is established throughout the UK and Europe, Australia and USA. Its business is to provide/search/place IT professional into positions as requested by clients. The project will carry out an analysis of Greythorn's manual training/retraining/program in order to develop a prototype web-based learning system that can be incorporated into their present intranet. It will involve surveys, questionnaires and testing of consultants online to determine progress. It will allow exchange of information, including company news. Consultants will be able to book into coming events such as Christmas party. Content should be stored in a database.</td>
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<td>21</td>
<td>ANCU Business Systems</td>
<td>Aust National Credit Union</td>
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<td></td>
<td>Multiple files on various servers and databases throughout the organisation with varying backup strategies and no consistent access restrictions. Various possible solutions - centralisation, replication, use of intranet. Formalising user guidelines on how and where to access data. Possible deliverables: storage strategies, user requirements, prototype system. Objective is to research the problem.</td>
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<tr>
<td>22</td>
<td>Chifley College Intranet</td>
<td>Chifley College Mt Druitt</td>
<td>M</td>
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<td></td>
<td>Group M Details to follow. Prudence Greene is head of English Faculty.</td>
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<td>23</td>
<td>Maths Learning Centre</td>
<td>University of Sydney</td>
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<td>MLC keeps a local database of students registered with it. Part of the information required is available from Flexsis. Proposed system needs to be able to import data from Flexsis. MLC uses Mac (OSX) computers. Access available on Fridays. Confidential issues must be dealt with. Permission to access Flexsis required (see email).</td>
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<td>24</td>
<td>Sports Centre</td>
<td>Sports Centre</td>
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<td></td>
<td>Involving development of a local inventory system to keep track of stock and have forecasting abilities.</td>
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*Monday, 9 August 2004*
ISYS3207 All Proposed Projects

ID 25 Open source software resources
Organisation NSW Dept. of Commerce.

Office of Information and Communication Technologies (OICT), Government of NSW is engaged in the design and implementation of a web site which is expected to evolve into a comprehensive portal for sharing all kinds of resources on open source software (OSS). This site is being set up to enable NSW Government agencies to share information on OSS, in the first instance www.opensource.nsw.gov.au). OICT has engaged Babel.com Australia to design and build the site using the Open Source web site and intranet content publishing and management system, MySource (http://mysource.squiz.net/)

The project will involve the following:
1. Familiarise with all the features and functions of MySource, in particular the workflow management features.
2. Analyse the work processes involved in the definition, approval, and retirement of different kinds of content and a prototype implementation of the workflow management system based on this analysis. This involves gathering and analysing information from a range of content providers who do or can provide content. It also involves developing a comprehensive policy framework for maintaining the diverse content on the web site.
3. Carry out usability analyses of the site.
4. Offer recommendations for making the web site more visible to all potential users.

Supervisor at the client organisation: Dr. Elizabeth Gordon-Werner, Manager, Electronic Strategic Projects, OICT, NSW Dept. of Commerce.

ID 26 C Mart Website
Organisation C Mart Pty Ltd

S Mart is an expanding distributor/retailer of imported goods from China. The directors are interested in "business to client" (B2C) and "business to business" (B2B) transactions online.

The object of the project is to establish an online web presence for C Mart.

ID 27 Forklift Management System
Organisation Collective Intelligence

An integrated system for tracking forklift equipment.

Data to be accessible to client companies to evaluate drivers and forklift use and/or damage.

System to provide various reports.

Needs to satisfy impact and safety evaluation for over 120 forklifts and 7 forklift companies who provide their own drivers.

Needs to deal both with forklift supplier and site warehouses. May make use of GPS system later on.

Scalability is important.

ID 28 Online Jewellery Store
Organisation Goldland Jewellery

Goldland Jewellery would like to set up an online store.

Details of customers and stock items to be stored.

Should be easy to use. Easy to add/remove items, modify prices.

Mail out promotion material to customers.

ID 29 Automotive Parts
Organisation Promethean Information System

A procurement and merchandising system for a car parts business located in Brisbane.

System will be web based.

Customers to be able to specify any car parts needed or upload photos of their damaged car permitting the dealer to identify the part required.

Manufacturers to supply information about parts they supply.

Time, resources, financial, marketing.
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#### Ensign Trading & Ordering
- **Team Name:** Ensign Online
- **Name of Organisation:** Ensign International Pty Ltd
- **Project Title:** EnSTOCS (Ensign Streamlined Trading Ordering & Cataloguing System)
- **Contact Person:** Robert T Ferrante (Owner) 95503222
- **Address:** 29 Smith Street Marrickville 2144

**Brief Description:**
The purpose of this project is to provide an IT-based support infrastructure to assist in the information processing and work practices of an existing small business environment. The aim of this project is to shift Ensign away from a bulky, purely paper-based system to a streamlined web-based application that manages and disperses information and communications to the relevant employees and departments. The goal is to improve efficiency and accuracy while broadening the access of existing and potential customers to information about Ensign's range of products as well as the ordering process.

Sectors of the business which we are looking to address include stock management, marketing, online trading, communications (in-house and external), and data archiving. These proposed areas are researchable and solutions regarding them are potential deliverables of this project.

Regards,
Adam Ruch
0405102821

#### Sports World
- **Organisation:** Sporting goods inventory and ordering

#### Parramatta Council Website
- **Organisation:** Parramatta City Council

**Brief Description of the Project:** Analysis of the current website, possibilities for improvement and future development (log-in, personalisation, automated e-mails, message board). Project will require extensive contact with the internal users (councillors) and the external users (local citizens) of the website in order to determine the purpose for the site's existence, its functionality and desired features.