# Tentative ISYS3207 Project Offerings, 2005 Semester 2

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| 1  | Chesher Portal      | Dr Chris Chesher<br>Director, Arts Informatics Program<br>University of Sydney<br>Woolley Building S314<br>P: (02) 9036 6173<br>M: 0404095480<br>E: chris.chesher@arts.usyd.edu.au<br>http://www.arts.usyd.edu.au/departs/informatics/ |              | Australasia's leading network for critical internet and new media research wants to establish a portal subsite as an online community resource for people active in this rapidly emerging field. The proposed system will replace the 'new media researchers database' which has recently been decommissioned.  
Fibreculture is a network of academics and other practitioners with an interest in critical Humanities perspectives on the Internet and new media in Australasia. Its activities include two mailing lists (fibreculture and fibreculture-announce) which have over 900 subscribers. Fibreculture also publishes the refereed fibreculture journal, hosts events (Melbourne 2000 & 2004, Sydney 2002, Brisbane in 2003, and Perth in 2004). The activities of fibreculture are overseen by a voluntary invited facilitators group.  
We want to establish this site as the most comprehensive register of people active in Australasian critical new media research. If the system is approved by facilitators, it will run as part of the main fibreculture site. It will ideally integrate with the existing list of subscribers running on the GNU mailing list software mailman, hosted by Culture2 (previously myspinach).  
The system should allow subscribers to add themselves to a register of people active in this field. We expect that most people would enter a small amount of information about themselves and links to their projects and publications. It may be possible to develop this system by customising an existing open source solution, but it is critical that it is appropriate to this community.  
The development team on this project might also look into developing an alternative system for posting announcements to the fibreculture-announce list. At the moment announcements are sent as emails, without capturing any metadata. We'd like to investigate the viability of running a parallel system by which announcements submitted to a web interface are forwarded to the list, as well as being posted to a calendar on the website. Related links |
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<td>Subscription Management Solution Project</td>
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<td>Prosentient Systems has an innovative Inter-Library Loan system (Inter-Search) now adopted by &gt;400 libraries in Australia and NZ. Prosentient Systems wishes to extend an existing rudimentary subscription management solution to integrate it with a Inter-Library loan Library Management System (Inter-Search). The objective of the project is to:</td>
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<td>1. Develop a subscription management module. The functions of a subscription management system are to:</td>
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<td>* allow clients to take out and change subscriptions during the semester*</td>
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<td>* register and manage subscription suppliers*</td>
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<td>* manage client subscription renewals with relevant subscription suppliers*</td>
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<td>* register subscription supplier details*</td>
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<td></td>
<td>* request sample copies in an automated manner through various supplier websites*</td>
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<td></td>
<td>* other subscription management functions (a specification will be provided).*</td>
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<td>This development can be framed around an existing, very basic, web based subscription application, or undertaken as a full redevelopment of the application.</td>
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<td>2. provide intelligent recommendations to clients on journals that they could be encouraged to subscribe to based on their ILL usage.</td>
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<td>The interesting aspects of the project are data mining directed to effective selection of clients for subscription recommendations, and possible use of XML for client/data interchange.</td>
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<td>Remarks:</td>
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<td>Please note that it is a requirement of this project that intellectual property rights on all work related to this project will remain with Prosentient Systems Pty Ltd, and students/student groups.</td>
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<td>3</td>
<td>The Future of Web Mapping Technology in Local Government</td>
<td>Terry Versace &amp; Paul Box A: 248 Johnston Street, Annandale NSW 2038 P: 02 6692 5100</td>
<td>Kerryn Katharine James Steve</td>
<td>Social Change Online is a leading web services company for government, unions and community organisations. SCO specializes in solutions for map centric, web browser based delivery of information and services, centred on its flagship web mapping product, WebMap Composer. Most information is associated with location, e.g. rainfall, births, traffic counts are recorded at a location; customers and services typically have street addresses. Location commonality is used to spatially integrate information from disparate sources; spatially integrated information can be visualised as an interactive map that can be queried, panned, and zoomed to show different levels of detail. SCO would appreciate if Information Systems’ students could conduct a research project to assess the current state of web-mapping technology, as well as exploring its future uses in Local government area.</td>
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4  | Gosford High School Web Development Project | Kerryn Katharine James Steve | **Required Sections:**  
Home Page  
About the School – | undertaking the project will be required to sign an IP agreement to that effect. Prosentient Systems will provide access to a development ASP Server for the work to be undertaken. The platform for the development is Active Server Pages, ASP/X, VB or VB.Net. Existing systems are written in Active Server Pages. Software development will be required in the enhancement of existing Subscription maintenance pages and in the development of data mining facilities to recommend in a targeted manner subscription prospects, with a possible mail out function to send recommendations/quotations to clients, or recommend on-screen during customer ILL requests. It is possible for students to work on or off premises for this project. |
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| 5  | Impart Information |                      | Philip Henry | - Principal’s Message  
- Staff list  
- P & C page  
- Welfare policies  
- Library  
- Careers  
- School events/School calendar  
- Links to sites such as Board of Studies and DET  
- School Profile  

Faculty pages –  
- English  
- Maths  
- Science  
- HSIE  
- PDHPE  
- TAS  
- CAPA  
- Languages

Web Page Requirements  
- Access by faculties and P&C etc to upload material (password protected). Pages only go live after approval by the Webmaster.  
- Consistent page design  
- Links to PDF of documents in policies etc.  
- 1024 × 768 native resolution – scalable for other screen resolutions.  
- Type size to be between 10 point and 14 point  
- No identifiable student photos  
- Contains a database of those users allowed to modify or add pages with their levels of access determined. One user for each faculty and one user for the Webmaster to be provided.

Other Requirements  
- A printed set of guidelines for staff pertaining to the type and layout of material to be submitted to the Web site.  
- A maximum size of 10 Mb for the site (DET requirements)

Impart Skills Pty Ltd is a Registered Training Organisation with the Australian National Training Authority (ANTA) and a specialist
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<td>Systems Project</td>
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<td>A corporate consultancy that has been providing services to industry, government and the community within Australia, Asia and the Pacific since 1990.</td>
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- In our training business, we are focusing on providing Training for Corporate Trainer (‘Train the Trainer’) in Certificate IV in Training & Assessment and Tier 2 (Financial Industry). We see the future in the training delivery in a combination of personalised on & off the job training combined with a flexible and personalised online module.

- In our Consulting / Facilitation business, we use a methodology called PinPlan Visual Discussion System which is based on the Moderation method (also known as Metaplan which is THE leading Moderation method). In every client meeting, workshop or vernissage, we produce large documents with lots of pictures as part of our client service.

- In the third part of our business we are exclusively distributing Neuland Products in Australia, New Zealand and Asia. Neuland is a German company which produces Moderation/Training products like flipcharts, pinboards, special shaped cards, etc. also called “Products for Active Learning”.

We are looking for a personalised information system which primarily provides online course management for our training business.

In order to obtain a consistent website it would be good if the solution could also cover the following:

- A personalised online documentation ‘tool’ that gives the client choices (e.g. select pictures, download the whole document or print it) and at the same time help us to manage the data size issue.

- A small online shop for the Neuland products.

Please have a look at our website [www.impartskills.com.au](http://www.impartskills.com.au) if you...
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<td>Elementary Computing within a Medical Practice to State of the Art Paperless Office</td>
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<td>like to know more about Impart Skills, Moderation or Neuland products.</td>
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<td>At present the computing is not networked and involves each doctor have an independent system. This needs to change to a networked system and an integrated billing and appointment system with pathology and x-ray and the SAN directly linked. Then familiarisation of staff and doctors with the system.</td>
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| 7  | Lane Cove Tunnel Air Quality Management Project                              | Debra Tape General Manager NSW Meals on Wheels Association Level 4/80 Cooper Street, Surry Hills | Yuri Lyu     | Gather validated air quality data  
  - Manage the content of data  
  - Produce a front end website for the air quality management  
  - Co-ordinate the data for public and private viewing  
  - Create an administrative section, for data to be manipulated or reviewed accordingly |
| 8  | Meals on Wheels Information Systems Development Project                      | Debra Tape General Manager NSW Meals on Wheels Association Level 4/80 Cooper Street, Surry Hills |              | General Organisation Background  
 NSW Meals on Wheels Association Inc. provides membership support to more than 220 Meals on Wheels / Food services. Meals on Wheels services are operated by a combined staff and volunteer workforce delivering meals to frail, aged people, people with a disability and their careers. NSW Meals on Wheels Association is largely funded by both Federal and State governments. Meals on Wheels services do more than just deliver meals; often a “Meals on Wheels” volunteer is the only person a client may see on a daily basis. These volunteers provide meals, social contact and monitor a client’s general health and wellbeing.  
 Currently NSW Meals on Wheels Association Inc. has no IT staff employed. This creates difficulties with daily operation related to information system maintenance and user administration.  
 Current Information System Problems  
 VoIP infrastructure installed approximately 12 month ago is not functioning properly, not able to make phone calls from some phone sets in the office. Voice mail functionality is not working due to software misconfiguration. |
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<td>9</td>
<td>Moore College Feasibility Study for Creating</td>
<td>William Hood</td>
<td>Inmagic DB/TextWorks Database system is only accessible from 2 desktops, only one person knows how to operate this software. Has no security protection such as user authentication, access control. MS Access used for daily data entry and ongoing events recording. Board Portal that integrated with organisation’s online website is not utilised by board members due to lack of computer operation knowledge and lack of understanding of the benefits of the Portal Remote access to local area network through internet limited by access to email exchange server only and no any possibility to have access to files and documents. Slow server and desktop computer response due gradually increased traffic of information throughout the computer network, aging desktop processing power and low memory storage capacity. <strong>Objectives of the Project</strong> To: 1. Provide detailed analysis of current Information System infrastructure 2. Provide recommendations on resolving problems for hardware and software upgrade procedures 3. Provide solutions for database integration and minimizing data duplication 4. Provide recommendations on resolving problems for VoIP communication 5. Provide user training manual and training of Board Portal for board members 6. Provide recommendations for improving information security and intrusion prevention. 7. Provide solution for enabling remote access to local area network.</td>
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<td>Central Database</td>
<td>Manager of Information Systems</td>
<td>The admin of the college is currently handled by about 8 separate applications, each of which has overlapping information about people and their contact details. The project would be to examine the feasibility of having a central database of core contact information (people, organisations and contact mechanisms) which would then be used to populate the other applications (library system, bookshop...</td>
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<td>10</td>
<td>Agile Team for Global Economy</td>
<td>Kasia Kotecki&lt;br&gt;Managing Director&lt;br&gt;Business Science Corporation Pty Ltd&lt;br&gt;P: 04 0965 6867&lt;br&gt;F: 02 9908 1715&lt;br&gt;E: <a href="mailto:kk@bscc.com.au">kk@bscc.com.au</a></td>
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<td>11</td>
<td>Database</td>
<td>Australian Mortgage Finance Group(AMFG)</td>
<td>Kian Pham</td>
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| 9  | Development and Homegroup Australia Project for Australian Mortgage Finance Group (AMFG) and Homegroup Australia | Amanda Nixon  
Amy Ng  
Kerry Chong  
Anthony De Bruijn | finance and real estate respectively. Currently an off-the-shelf database package is used to store customer information and can only do just that; store the information and nothing else. It is unable to do anything with the stored data meaningful to the company. There is also a fair amount of paper-based information being used at the office. The goal is to create a new database which a) stores the existing data along with other data types b) has analytical features and can also be used as a marketing tool to help increase response rates from potential customers c) will be an integrated database for both divisions of the company and d) will help automate existing processes. |
| 12 | Billing Reconciliation System Exetel Pty Ltd                                      | Vasko Bozinovski  
Mark Fay  
James Horn  
Catherine Linton  
Josephine Rees  
Madeleine Wood | What Exetel has identified as a necessary project is a system that will enable us to audit electronic invoices from suppliers against our MySQL database and billing system. The goal of the system is to ensure that suppliers are only charging us for services that we receive, that they charge us correctly, and that we have charged our customers for those services. The output would need to be in the form of exception reports that would identify errors in the supplier invoice or internal billing. | Criteria:  
- Web interface for submitting supplier invoice, internal billing data, controlling processes, generating reports (csv)  
- System is not specific to a single supplier, but able to deal with several suppliers  
- System is able to take inputs from multiple billing systems  
- System compares several customizable criteria fields for accuracy, may include tolerances  
- Retrospective view to ensure charges are not incorrectly applied over multiple periods ie duplicate charges  
- Other criteria as identified in discussion |
| 13 | Course Delivery and Management System for Moore College                          | William Hood  
Manager of Information Systems  
Moore Theological College  
1 King St Newtown  
NSW 2042  
Ph: 9577 9808 | Our external studies department currently does all its teaching via printed resources posted to students. Student enrolment is handled by an out of date system. The project would be to examine technologies to deliver course material to external students and handle the enrolment procedures online. |
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| 10 | Fax: 9577 9988 Email: William.hood@moore.edu.au | | | The solution would need to include the following:  
  a. system for online enrolments by students  
  b. back end system for admin staff to manage the enrolments, results etc.  
  c. delivery mechanism for delivering content (printed, audio & video) to enrolled students only. |
| 14 | Access to SQL Database Migration Project | Sasank Namburi  
Phillips Fox  
201 Elizabeth St  
Sydney  
P: +61 2 9286 8415  
F: +61 2 9283 4144  
E: Sasank.Namburi@phillipsfox.com | | We have couple of access databases which we would like to convert into a SQL Server database with active directory integration for a single sign on. This would have a web-based front-end. The project is not overly complex and it really depends up on the student on how they want to expand. We should have some sort of reporting functionality using our standard reporting development methodology of .Net crystal component to develop the reports. There will be an admin module for centralised control of the application. |
| 15 | Pizza Hut dynamic payroll/employee management Project | Robert Yu  
Fo Guang Shan Pty Ltd | Sisi Zhang  
Aaliyah (Verda)  
Aly  
Nathan Stevens  
Amanda Lee  
Uditha  
Hapuarachchi  
Sujatha Srinivasan | Pizza Hut Fairy Meadow, a franchise owned by Fo Guang Shan Pty Ltd, is currently using a manual paper based system to process its operational work such as entering and retrieving employee and payroll information. The managing director of the franchise, Robert Yu, believes that the current paper based system is too time-consuming and it does not offer any explicit forms of data analysis. Hence, it is believed that an IT integrated employee and payroll knowledge management system is needed to reduce the current operational work redundancy and assist in better management decision making. Such system should consists of graphics, analytical, communication and document management tools that helps managers generate new business ideas and identify patterns and relationships in vast quantities of data within employee and payroll databases. |
| 16 | Girls in IT – by EO Solutions | James Curran  
Madsen Building, Room G86  
P: +61 2 9036 6037  
F: +61 2 9351 3838  
E: james@it.usyd.edu.au  
W: http://www.it.usyd.edu.au/~james/ | Peter Sahlani  
Melody Yeo  
Evelyne Kun  
Geomayra Silva  
Nalaka Karunaratne  
Nimali Gunawardena | Brief Description:  
The client would like to run a three day ‘introduction to IT’ workshop for 50 to 70 high school female students, ranging from years 7 to 11. EO Solutions are to research, design and implement a workshop for high school girls to explore the various areas of IT, in order to broaden girl’s career objectives in ICT. |
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<td>AMR Interactive Project</td>
<td>AMR Interactive</td>
<td>Matthew Kuti, Scott Gorman, Vaughan Ramsey, Rony Azzi, Julian Lloyd-Phillips</td>
<td>N/A</td>
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<td>Key deliverables:</td>
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<td>• Document: Background Research and Recommendations for ‘Girls in IT’ Workshop</td>
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<td>• Workshop: Tutorial handbooks and flash tutorials for the girls to work on throughout the days. As well as a set out of the activities which the girls are to perform and an explanation of how they relate to IT both at university and at a professional level.</td>
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<td>18</td>
<td>Sharechart Web Development</td>
<td>William Zhu, Managing Director, Sharechart Suite 3, 251 Liverpool Road Ashfield, NSW 2131 P: 97978588 E: <a href="mailto:william.zhu@sharechart.com.au">william.zhu@sharechart.com.au</a></td>
<td>Xiaonan Fan</td>
<td>Objectives:</td>
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<td>1. Improve their website using ASP/JSP/Flash/javascript or whatever will make it more user friendly and easy of use.</td>
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<td>2. On their website, we will make a login function, which needs to link to their Database, so registered users can log in to retrieve information about shares.</td>
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<td>3. New user registration.</td>
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<td>4. On their website, we will make a forum, where users can post discussions and other users can reply, where the User Interface for this function needs to be look and feels good, clear, friendly and easy to navigate.</td>
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<td>19</td>
<td>Software Licensing Management Program</td>
<td>RailTech</td>
<td>Chris (PM), Christian, Ollie, Alex, Rebecca</td>
<td>CityRail has recently merged with Rail Infrastructure Corporation (RIC) to create RailCorp, their merging systems has recently been in conundrum concerning the switch from RIC's netware based OS to CityRail's microsoft based OS. There has been audits, within the last 18 months on RailCorp's use of licences, some of which were completed in favor of RailCorp, some of which were completed ending in a large cost to RailCorp due to licences being used illegally. RailCorp invested in a program called Microsoft Software Management Server 2003, which among other things, can report on the state of the current installations on any given computer on the network with the MS SMS client installed. As useful as this information is, it is not cumulated for comparison to the available</td>
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|    | Business Data Information Systems Development | Chris Pellegrinetti  
IncNet Business Solutions  
www.incnet.com.au | Zainul A Rahman        | licence information. So the administrator is not able to tell straight away whether or not too many licences are being used of a particular piece of software.  
RailCorp have suggested that we design a program that will compare these values to notify someone when too many of a piece of software is installed, and also report on the status of software licences used, identify faults, pinpoint offending computers etc. This will require interfacing with MS SQL on the MS SMS side of the database, and also interfacing with the procurement database which is currently offsite.  
Mr Chris Pellegrinetti is the general manager of IncNet Business Solutions. This is a Business to Business database company, holding public data about companies in Australia and New Zealand. The company recently updated their back end database system from a flat file database to a relational database. The transition was not as smooth as anticipated and a lot of the past functionalities disappeared with the new system. Currently the business is expanding rapidly within Australia and New Zealand, however wishes to expand overseas soon.  
The purpose of the project is first to carry out a business analysis to ascertain the requirements of an integrated information system to support the new client record input aspect of the business database.  
The intention is then to develop a working prototype system to demonstrate a possible solution and to allow him the opportunity to explore the possibilities and to confirm his requirements.  
The current system is quite complicated and there is only one main database which is used, thus access to this database is highly restricted. To minimize error currently new clients are inputted into the system using paper forms, which are typed in by database specialists into the database, a tedious, error prone and expensive setup. This current system is costing the company valuable time, effort and resources. Once the company goes global may cause even greater loss of control and increased costs and irritation of clients by calling them unnecessarily.                                                                 |
| 20 | Business Data Information Systems Development | Chris Pellegrinetti  
IncNet Business Solutions  
www.incnet.com.au | Zainul A Rahman        | licence information. So the administrator is not able to tell straight away whether or not too many licences are being used of a particular piece of software.  
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<td>Mr Pellegrinetti believes there is a need to carry out a thorough analysis to determine the requirements of an alternative information system capable of supporting the initial data verification and entry side of the business.</td>
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<td>21</td>
<td>Development of an e-commerce website for Gecko Audio Pty Ltd</td>
<td>Tom Celinski Gecko Audio</td>
<td>Monica Chung Christian Gouw Tina Hsu Kim Peang Lim My Tran Le Greg Thai</td>
<td>Their existing website is rather poor. Would like to re-develop the website with three aims: (1) to improve their on-line image, (2) to facilitate on-line information collection (customer surveys etc), (3) to enable web-based product sales to partner companies as well as to consumers (with credit card facilities, back-end database system, etc)</td>
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| 22 | CLI QA Project | Dean Cummins | Cristie Hancock Figen Cingiloglu Saira Macan-Markar Safaa Haddad Nancy George | Our department within the Centre for Learning Innovation primarily deals with the creation of learning materials and websites. Each product that is produced must undergo a quality assurance phase which aims to identify issues and bugs before the product is released. In addition, the developers also identify issues/bugs during the development phase before it even reaches QA. The project will involve an analysis of our existing systems - in terms of the processes, data collection and reporting requirements. This will involve "identifying the problem" etc. You will gather the requirements for the new system, thus leading you to propose a new system which will meet our needs. Our main requirement would be a report that involves things like:  
• Current processes, data collection, reporting requirements  
• Requirements for the new system  
• Processes for the new system  
• Proposed reports for the new system  
• Proposed data collection methods/forms  
• Analysis of existing systems (preferably open source/code available so we can extend  
• A case for the creation of a new system and/or a case for the use (and possibly extension of) an existing system  
While a prototype would be nice, it is not important. A report outlining the current system/processes and the proposal for a new improved system would be the number one priority for this project. |
There are two separate processes that we undertake, both by separate
groups for slightly different purposes.

Testing during development - programmers enter details of
bugs/issues/things to do into an access database. These can be
assigned to people and given severity ratings etc. Once completed,
we can enter more details about the issue such as how we completed
it etc. This is all done in an Access database.

Quality Assurance (done at completion of project) - The existing
system is an Access database (a VERY different one to above!) that
the QA officers can use to enter in the details of bugs/issues as they
find them.

So for example, Kris (QA officer) might be looking at a webpage
and find a broken link. He then will enter into his Access database
the details for this issue with things like the page the link was on, the
browser he was testing, a description of the issue etc. (The broken
link issue one of many different types of issues we get.)

Once the QA has been completed, Kris will print the list of issues
(via an Access report) and will discuss the issues with the project
manager and the programmer(s). They will then go away and fix all
the issues that need to be fixed. (At the moment, we do not collect
anything in terms of what has been fixed, who it was fixed by, how it
was fixed, why it happened etc which will be very good stuff to
collect)

These 2 processes/systems essentially do the same thing – they
involve the identification of issues/bugs by a worker and allow for
the recording of them. It would be good if we could have ONE
system for all this - with different options etc of course depending on
the context it is used in. (So a developer might like to state what
language the issue was written in, e.g. C# while a QA officer will be
more concerned with the potential impact it will have on
accessibility) You might find that it is not a good idea/isn't feasible
to have one system - one of the aims of your project I guess!

Basically think of the existing system as a database with limited
functionality where we enter data and get very simple reports from it! What we want is much more functionality, better data collection,
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<td>reports, easier access to the system (web perhaps?), inbuilt processes etc. It should be an interesting project - challenging but not something that you will have no idea what to write about! It will involve analysis, design, requirements gathering etc.</td>
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