

Monash University Bachelor of Software Engineering Final year (2 semester – full year) Projects called Software Engineering Studio Projects (2002-2009)

Monash University Software Engineering Studio Projects 2002-2003 (CSE4002) available at:

<http://www.csse.monash.edu.au/~sitar/CSE4002/CSE4002-and-alumni/>

Refer to an article published by IBM on Monash-IBM/Rational link in BSE on 30 July 2008 at:

<http://www.csse.monash.edu.au/~sitar/CSE4002/Monash-IBM-30july2008.pdf>

Monash University Software Engineering Studio Projects 2004 (CSE4002)

Quick Bill - Web based billing system aimed at SMEs (confidential)

Client: Tomato source, Contact: jase@tomatosource.com.au Jason Watson

Students: Tripti Chibber, B C Brian Kho, Phan An Le, Sara Mahdavian, Sun Huot Tang, Tony Tony

Stock ordering system using technologies such as J2EE, PDA

Client: 7seals@com, Contact: rlin@7seals.com Richard Lin

Students: James Ashamalla, Nadia Antanovskii, Howard Leung, John Lam, Garth McLaughlin, Nadia Silvestre

J2EE application for web site support and project management

Client: Digital Bridge , Contact: luke@digitalbridge.com.au Luke Kelty

Students: Scott Gordon Chase, Matthew Polson, Noopraj Rambocus, Jeremy Sydney Russell, Jian Hui Song

Rotary Water Project (continued from 2003)

Client: Rotary Australia , Contact: sandrap@deakin.edu.au Sandra Pyke

Students: Maria Camille Azarraga, Marilyn Emelda Barallon. Sergiu Ciprian Dragomir, Sudad Abba, Donald Mu

Developing a tool with Java and Eclipse for practising Reading Russian

Client: Peter.Harding@pha.com.au Peter Harding, Peter Harding Pty Ltd

Students: David Dai Minh Kaing, hardi Hermawan, Riki Tjia, fat Khiong Tjong, Yuan Zhang

Working with Sound system for the Web

Client: Peter.Mcilwain@arts.monash.edu.au Peter Mcilwain

Students: Kate Droukman, Andrew George Farrugia, Ashokan Ganesamoorthy,
Lukasz Ryszard Kizewski, Kim Daniel Lajoie, Joe Rivendell

Monash University Software Engineering Studio Projects 2005 (CSE4002)

Project 1: (Confidential)

Contact: Bruce Joy & Henry Tsai: Everyday Interactive Networks

Supervisor: Heinz Schmidt & [Sita Ramakrishnan](#)

Team: Cuong Chi HINH, Joel PONIANTO, Anthony STEWART, Mirna ZAHRAMAN

Client's Short description:

The client aims to release the code under an open source license, but until then we view this project as confidential.

TECHNOLOGY:

Java
Eclipse
Mercury QuickTest Professional
HTML
JUnit
JavaDoc

Project 2: Billing System (Confidential)

Supervisor: [Heinz Schmidt](#) & [Sita Ramakrishnan](#)

Team: Alexandra COLQUHOUN, Dicky GUNAWAN, Nina Sarita HALIM, David LI, Benjamin PASK

TECHNOLOGY:

Programming language: PHP
Database: MySQL
Operating System: Linux
Related: XML, text/ csv , SSL, integration with banks for online and batch processing

Brief description : A prototype developed in Linux using PHP and MySQL database.

Project 3: - (Confidential)

Supervisor: [John Hurst](#)

Team: Vishal CHAND, Christopher MEARS, Johannes SCHMIDT, Allan YAW

Project 5: Java Web for CADRIA

Contact: Ian Hogan (and John Barratt), OpalTree Systems Pty Ltd,

Ian.Hogan@opaltree.com

Supervisor: [Heinz Schmidt](#)

Team: James BILLETT, Mike FARAH, Timothy MEAD, Erica SMITH, Ji Yong TRAN

Client's Short description: Currently OpalTree Systems Australia has a rich XHTML/ XML+Web Browser+Javascript based client for managing it's innovative CADRIA Knowledge Management System. It is proposed that an alternative, more secure and robust, client application be developed in Java. This should be advanced web services such as J2EE web services developed under IBM websphere for example and using rapid web services prototyping and deployment based on Sun's Java(tm) web start technology.

The new system is to remove the issues of catering for browser dependencies and allow for richer client-server interactions. It should also provide a more uniform look and feel across the full range of client operating systems and hardware.

Project 6: Coaching College Student Administration and Test Marking and Reporting System

Contact: Tim Cooper, NCS Pearson Pty Ltd, via Ian.Hogan@Thinkronicty.com.au

Supervisor: [Trevor Dix](#)

Team: Julie BERNAL, Stanley BRESKIN, Garth HEWARD, Syahrialdi SIKAR, Dhany TIE

Client's Short description: Develop a web based (preferably ASP.NET/SQL Server) student administration and test marking system suitable for a multi-campus coaching college. Student administration features would include student registration, fees and attendance tracking/reporting, and form-letter generation. Test marking would be based on OMR (Optical Mark Reader) data from NCS Pearson OPSCAN scanners, and would incorporate test/solution maintenance screens and a server application to process data from the scanner. A range of configurable reports would be able to be generated in PDF format, for print or automatic email distribution.

Monash University Software Engineering Studio Projects 2006 (CSE4002)

Project 1: Medical Imaging Research Database

Contact: [Richard Beare](#)

Supervisor: [Gopal](#) Gupta

Team: Kalpana Soni, Kirti Soni, Kazi Mohammad Atiquzzaman, Hima Bindu Surapaneni, Melissa Anne Yung

Overview: The neurosciences group in the Department of Medicine carries out research relating to brain function. This research involves a variety of types of image data, such as MRI, PET, brightfield microscopy images from humans and animals. Different studies produce a different types of data and involve different analysis procedures.

The volumes of data involved are increasing and the types of analysis being performed are evolving. Consolidation of the management of this information is therefore becoming important. It is therefore proposed to develop a research version of a patient archive and communication system (PACS) that is used in many hospitals by adapting an existing open source system.

The system must be able to - 1) Archive and retrieve images 2) Store details of operations carried out on images and their results 3) Support storage of new types of results as the need arises - i.e the database must be able to evolve as new types of study are proposed. It would be ideal if this evolution can take place at the direction of users without need for reconfiguration of the system. The existing open source system we are considering adapting is the open microscopy environment (<http://www.openmicroscopy.org>). This system appears to have most of the elements we need, plus a few that we don't. It is a large and complicated system that will take a while to understand. It has 1) An XML based image format - we don't need this. 2) An image server - we do need this. 3) A meta database to which all sorts of new data types can be added dynamically - we think we need this. 4) All sorts of SOAP/XML type links to client applications - some of these could be useful. 5) An image analysis engine - we don't need this at the moment, although it might be handy to be able to plug our own engine into the system in the future.

Outcome: The group has developed a Research Image Database System (RIDS) for the Neurosciences group in the Department of Medicine at Monash Medical Centre. The main purpose of RIDS is to provide a secure database management system that handles images, sound files, videos and other large binary objects(BLOBs) as well as any information related to these BLOBs .

A few of the client's requirements were successfully achieved by adapting and modifying the [Open Microscopy Environment](#) (OME) to produce RIDS Version 1.0. However, in order to fulfill the remaining functionalities, RIDS Version 1.0 had to be unfortunately abandoned. RIDS Version 2.0 was then developed keeping in mind the key concepts of OME and using only its Image Server(OMEIS).

The advantages RIDS Version 2.0 has over the usual database is the capability to dynamically add new types of data. RIDS Version 2.0 allows multiple users to access

the files remotely while providing relevant security measures to restrict unauthorised access. The developed system consolidates the management of information to provide a convenient research version of a patient archive and communication system (PACS).

Project 2: Graphical Framework for Medical Visualization and Segmentation:

Client: Richard Beare , Richard.Beare@med.monash.edu.au

Supervisor: Heinz Schmidt

Overview: There are a number of powerful tools for visualization and segmentation of 3D medical images - in particular "register" and "Display" from the Montreal Neurological Institute. However these tools are often not maintained by their original authors and are tied to file formats. In addition they are not designed to be extensible.

Develop a portable application framework using open source tools such as itk and vtk (www.kitware.com). Simple instantiations of this framework would provide similar functionality to existing tools. New applications could then be created to support particular studies or tasks by including specialized segmentation and visualization techniques. itk and vtk are c++ libraries that build heavily on principles of design patterns. Any application framework should also build on those principles. vtk is a visualization toolkit that provides volume and surface rendering capabilities while itk is an image registration and segmentation toolkit. There are a number of applications associated with itk that are a provide a starting point for learning about the toolkits.

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Project 3: Migrating from J2EE Apps to Portal Application

Client: Richard Lin

Supervisor: Sita Ramakrishnan

Team: Chris Fell, Martin Karpowicz, Kunal Mamik, Simon Pilcher, Kieran Simpson

Overview: Over the last couple of years, many new applications are developed based on web technology. One such technology that has dominated the internet is JEE technology. However, increasingly many businesses have come under pressure to provide more than just web-enabled application but also personalisation and unified interface to various other applications. As a result, portal applications are being developed to provide these new services.

Since many existing applications are based on JEE platform, the challenge is to leverage the current asset and provide migration strategy to port these applications to the portal environment.

Software Requirement: Rational Application Developer MySQL Apache Pluto 1.0

Goal: To study various migration strategies to port existing JEE enterprise application into the portal application. To recommend the best strategy and to demonstrate this strategy in action, i.e., deploying the JEE application into the portal environment.

Outcome: The project group has researched and developed a strategy to migrate existing JEE applications into the portal environment. The final product is a Live Translation Layer implementation that allows a portlet to mirror the appearance of, make requests to, and receive responses from an existing JEE application, thus turning the portlet into a fully functional equivalent of the JEE application. The two main advantages of the Live Translation Layer are a) the JEE application is still available and useable as it were prior to the migration, b) any changes made to the existing JEE application are immediately reflected in the Live Translation Layer portlet . This portlet may then be included into a portal which could also provide the user with personalisation and a unified interface to various other applications.

Project 4: Single Sign On

Client: Dr Richard Lin: 7Seals.com

Supervisor: Assoc. Prof. John Hurst

Team: Michael Brockie , Gerald Llaguno , Alan Pang, Tamim Maqiq , John Wiggs

Overview: In any organisation, it is almost certain that there is more than one system to support its businesses. Each of the system will require the users to login (authenticate) before they can use them. Remembering many passwords for many individuals is certainly a daunting task. It is envisioned that the users need to authenticate once and enable them to use all the systems, e.g., web application, desktop application, without being asked to re-login.

One such technology that can achieve this is Kerberos technology.

Software Requirement: Rational Application Developer Microsoft Active Directory on MS Server? Kerberos server on Linux box MySQL (optional)

Goal: To demonstrate single sign on using Kerberos and Java technology. To incorporate the popular MS Active Directory.

Outcome: Single Sign On technology is the ability to acquire network resources without the hassles of traditional authentication. That is, users automatically authenticate themselves without needing to input a username and password when prompted. If a user has access to a particular network resource, prompts for username and password is circumvented. Otherwise, the user will be prompted for their username and password to gain access to the resource. The advantages of Single Sign On is quite obvious. The gain in productivity, more importantly the increase in security and the elimination of password circulation are a few of many benefits Single Sign On has to offer. The team is to construct Single Sign On solutions for the following three applications on the Windows platform: Websphere , Internet Explorer , A sample java application Technology used : Kerberos, Active Directory, SPNEGO, JAAS, LDAP, JNDI

Project 5. Interactive Mood Engine (iME) (confidential)

Contact: Bruce Joy brucejoy@ein.com.au , sufiah@ein.com.au , 'Henry Tsai' henrytsai@ein.com.au

Supervisor : Ingrid Zukerman

Team: Luke Chin(Project Manager), Maninder Bajwa , Gerald Lim, Vuong Tran

Project 6: Heath Portal

Client: Dr Frada Burstein, Caulfield School IT

Supervisor: Gopal Gupta

Team: Nuzakat ALI, Hebah HARB, Chung Tue NGUYEN, Zemin SONG, Daniel TIET

Overview: In the health domain portals become more and more important to provide differentiated access to various resources for health practitioners, medical specialists, government agencies and patients, as well as their family and friends. Health portals are tying resources together for self-help communities and health community networks in areas such as anxiety, coronary heart disease, cancer, depression, diabetes etc.

The project is related to the existing health portal jointly developed by researchers and students of Monash University and the Breast Cancer Advocacy Group. The aim of the portal is to provide differentiated access to users based on their profiles identified by researchers through intensive user needs analysis. The portal operates as a meta-data driven gateway to externally available breast cancer information resources.

The portal has been redeveloped using open source search engine and consists of Postgres metadata database and Java-driven interface. There is also a "sound-like" spelling checking component and a simple distributed content management system for updating the content of the metadata database and adding more resources.

The focus in this project will be on extending intelligent features of the portal:

- back-end log database needs to be developed for capturing search terms entered by the users; when no results were found an "alert" needs to be generated to inform the administrator about the need for this information;
- web-crawler needs to be set up to monitor new websites with related information;
- a mechanism for monitoring broken links for existing resources needs to be added to help database maintenance.

All development should maintain open source approach adopted in the previous stages of the portal development.

Outcome: The group has extended the existing portal which adds further functionality and a vital statistical resource. Key features include a back-end log database that captures search terms entered by the users; when no results are found an "alert" is generated to inform the administrator about the need for this information. A web-crawler that monitors new websites with related information; and a mechanism that monitors broken links for existing resources that will aid in database maintenance.

Project 7: Web Services Management Interface

Client: Sudharsan Ramachandran , VPAC (The Victorian Partnership for Advanced Computing)

Supervisor: David Abramson

Team: Jason Chan, Micheal D'Silva , Van Nguyen, Gary Wallace & Roger Yuen

Overview: Service Oriented Architecture (SOA) methodologies are increasing being implemented to integrate loosely coupled management information systems in business environments.

VPAC have been investigating the implementation of SOA via SOAP Web Services in the Engineering Domain. The web service protocol stack as defined by W3C is broken down into technologies in the following areas: Wire, Description and Discovery. In addition to this, overarching aspects that apply to all web services are Quality of Service (QoS), Security and Management.

This project focuses on the management infrastructure, by investigating standard interfaces and building a new management interface as required by web services in the engineering space. For more information see:

<http://www.w3.org/TR/2002/WD-ws-arch-20021114/#id2617282>

<http://www.devx.com/enterprise/Article/10663/1763/page/1>

Outcome :

Webservice Management Interface: Web services are becoming more commonplace as the Internet is being embraced by a growing number of users. Distributed computing via Web Services is now seeing widespread use, with the advent of high-speed computer networks. Such arrangements are also known as SOA (Service Oriented Architectures).

However, no existing technology exists to Monitor and Manage the Quality of Service (QoS) provided by such services.

Some web services are critical to particular operations and uses. A standardised method to reduce or mitigate the risks of unreliable web services would be highly beneficial.

Development: This project, the Web Services Management Interface, is being conducted as a final year software engineering studio project. The purpose of the project is to implement a working management platform, based on the initial research conducted by VPAC, whose aim is to create standards for web service management.

Current Status: Several prototypes have been produced for demonstration.

Monash University Software Engineering Studio Projects 2007 (CSE4002)

Project 1: Performance Data Tracking Database

Clients: Nizam Abdallah, Bluetounge Entertainment
nabdallah@bluetongue.com (Ph: +61 3 99149944) taken over by
Mr Kevin Chan, Bluetounge Entertainment

Supervisor: Dr David Squire

Muse Team 1 members: Rodney Perera, Jourdan Chua, Ang Teck Lim,
Aris Gioutlakis

Client's Brief Description: Throughout game development the test teams frequently record various performance data. The type of data recorded varies from title to title, however it's mostly related to Memory, Frame Rates and Loading times.

Currently we store this data in spreadsheets. What we would like, is to be able to store the recorded data into a database for analysis over time. The application should be a C# application, using an SQL server backend.

Ideally we should be able to store data for projects developed on various platforms. Then be able to perform queries on the data. Basic functionality will include ability to add new titles/projects, add platforms to projects, and then we should be able to specify data types. Data types are the type of data we collect for example memory, frame rate, loading times. Each data type will have different properties, including a name, maximum and minimum ranges.

The application should be able to import data from CSV files and export data to excel. It should be possible to import and export data not only via the application GUI, but also via command line arguments.

Final Report:

Executive Summary

The project commissioned by BlueTongue Entertainment for Muse Team 1 was a program to store test data into a database. BlueTongue Entertainment has been storing their test data, for the various games they develop and test, in excel spreadsheets and needed a more stable and robust way of storing their data.

The project was to create a database that could store all the dynamic data they needed in some sort of intuitive data structure. The hurdle was to develop a database ERD that did not need to be changed to reflect a certain project.

Along with designing a database that could keep up with the test data, BlueTongue also wanted a front end to be developed, so users could insert data, browse and search the database and that also kept track of users actions through log files. The front end needed a graphical user interface and a command line interface because it would be used by people and also by an automatically generated script to insert data during the nightly automatic builds.

Project 2: Project Eden

Please Note Client's Confidentiality Requirement: We'd appreciate that any public references including XXX (company name) should only refer to this project as 'Project Eden' (ie. Website publications/industry correspondence. Of course, lectures or other internal material may be as detailed as you require.

Supervisor: Dr Peter Tischer

Muse Team 2 members: Craig Tregear (Group Leader), Daniel Santoro, Dinh Think Le and Zoran Hladun

Final Report:

Executive Summary

The concept behind Project Eden was to allow the client to manage the time of consultants within their organisation 'better'. This was to be achieved by making the input and modification of time more intuitive, giving more functionality showing what time has been (and has yet to be) entered and improving the ability to reconcile time.

A limit of the system was that it must be created to run on free/open source software on a virtual server. For satisfy this, the solution was developed using PHP and a MySQL database. The code and database can also be easily ported to some other languages (such as ASP) or database servers (such as Microsoft SQL Server). Another requirement from the client was to have one central repository of historical data, possibly even covering other departments. The final solution was thus developed to allow deployment to other parts of the client's organisation.

Project 3 - Web Based Service Desk

Client: Mark Asbell, Consultant

Supervisor: Dr Sita Ramakrishnan

MuseTeam3 Members: Peter Lobley, Steven Nichols, Brendon Taylor, Scott Clarke

Description:

An application is required to provide a service desk a tool for recording and resolving issues raised by consumers. The application should also be available to users as a self-help tool. At a high level, the application consists of three distinct modules as follows:

An issue recording, tracking and reporting system based on ITIL principles

A question and answer engine

A communications interface to SMS and e-mail

Requirements:

The following technical requirements are present for this project:

Web 2.0

Database Independent

That varying levels of access are available to the application

That each of the modules can be implemented as distinct applications

Expectations:

That the work will be tracked and reported against at regular intervals to the project sponsor

That the deliverables shown above will be produced for each of the distinct applications as listed above, that these will be reviewed and signed off where appropriate by the project sponsor / project manager

That any additional requirements put forward by the University will be completed appropriately

Final Report: Project Overview

The task of the project was to implement a web based service desk for external client Mark Asbell. A service desk facilities are employed by the providers of goods or services. In the context of the project this was to be for supporting the end users of a software service or product.

ITIL, the information technology infrastructure library defines a set of best practices for software support which includes service desks. The ITIL framework covers a broad area and the project was to be founded on ITIL principles. The software product currently handles incidents within the ITIL framework.

An incident is caused when there is an interruption in the provided service. This definition is not very specific and could include events such as a program bug the suddenly quits a user back to the desktop to a bug that resets the database server. The incidents are linked to an underlying cause. In ITIL, this is a problem. A given problem may result in the generation of multiple incidents. Problem management while on the horizon initially, was cut back and not implemented in the system due to time constraints.

Another initial objective that was not implemented due to time constraints was a known bugs repository. This was to be a place where information about all of the incidents that had passed through the system would be kept. When support staff are

lodging an incident over the phone on behalf of a customer they could do a quick check for other users who have had the same problem. This would enable them to the current status of the incident. This would be a valuable future addition.

The web based service desk is a tool that manages the lodging, tracking and management of software incidents for a supporting company.

Technologies Used

LAMP - Linux Apache Mysql Php, JavaScript, CSS, AJAX, XML, XHTML, Unit Testing Frameworks (Sahi, PHPUnit, HttpUnit and HtmlUnit) and Java (for HttpUnit and HtmlUnit).

Monash University Software Engineering Studio Projects 2008 (CSE4002 – renamed to FIT4002)

Project 1: Knowledge base database

Client Contact: Mr Nizam Abdallah, Software Developer in Test

Toll Corporate IT - Mobility Product Team
160 South Gippsland Highway
Dandenong 3175
Telephone: 03 9554 3148
Mobile: 0434 564 585
Email: nizam_abdallah@toll.com.au

Supervisor: Dr Peter Tischer

Museteam - Student team members: Andre Gec, Jonathan Gordon, Billy Lin

Project Description:

Research plays a large part before, during and after a software development project. Large amounts of references including hyperlinks, videos, whitepapers, and book references are collected and currently there is no formal way to manage this information.

This project includes the development of knowledge based database software that will allow multiple users to add and retrieve information on various topics. The data will be sorted into dynamically defined topics and users can subscribe to topics that are of interest to them, after which they are emailed an update when an addition has been made to their chosen topics. Users should also be able to search for topics that may be available within the system. Each entry in the system will also include information such as a description, details of who made the entry, time/date of entry and the ability for users to add comments.

The system will need to be a windows based application developed in C#, and SQL Server.

This type of system will help centralise research data and allow for more formal synchronisation between users and up-to-date information.

Project 2: Performance Review Tool

Client Contact: Mr Kevin Chan

THQ, BlueTongue Entertainment Pty Ltd
606, St Kilda Rd, Melbourne
Ph: 99129914
Kein.chan@bluetongue.com

Supervisor : David Squire

Museteam members: Steven Cunningham, Nicholas Gawne, Rafif Yalda, Keith Lewis

Project Description:

The THQ performance review process involves primarily assessment of the staff's goals, behaviors. Each of these are given a rating and a comment. Then general comments are given. Currently, the process is very manual, with all goals, comments being typed (or copy/pasted) into Word documents for each staff member. The Word document is a little difficult to use and manual formatting is often required when writing long comments.

We would like a tool that can be used for the performance review process. We would use it at the start of the performance period, before the reviews, during the reviews and after the reviews.

Project 3: Intranet Documentation System

Client Contact: Mark Asbell, Consultant

Mark Asbell funkykase@gmail.com ph: 0438 197 638

Supervisor: Dr Sita Ramakrishnan

Museteam members: Timothy Ward, Matthew White, Andy Goh, Jason Maddocks

Project description: Provide a web based internet resource for storing and displaying documentation about an application

Software applications require documentation. This documentation should exist for different audiences:

Users

Super Users

Technical support staff

Developers

Requirements:

The following technical requirements are present for this project:

Web 2.0 + AJAX

Database Independent (Mysql will be used for development)

Platform independent (as much as possible)

That varying levels of access are available to the application

That the application can store and play voice files

That the application can store and play store video files

Expectations:

That the work will be tracked and reported against at regular intervals to the project sponsor

That the deliverables shown above will be produced for each of the distinct applications as listed above, that these will be reviewed and signed off where appropriate by the project sponsor / project manager

That any additional requirements put forward by the University will be completed appropriately

That group meetings will be held every 2-4 weeks between the project sponsor and the project members. It is expected though that communications will occur bi-weekly (minimum) by phone.

Monash University Software Engineering Studio Projects 2009 (FIT4002)

Project 1: AUSVita

Client: Hardy, Emilly, Consultant

mobile number is 0450312022.

Supervisor: Dr Sita Ramakrishnan

MuseTeam1 members: Prateek Rungta, Daniel Geist, Julius Kusnadi

Project description: Ausvita, is an online Internet based information/ service provider for university international students in melbourne. The core activities of the business are to provide a quick and easy reference point for finding services and products for International students located in the Melbourne city vicinity.

The aim of the business is to provide discounted products and services to Ausvita members, and to make the goods and services used by the Melbourne international student community more accessible and convenient in the process saving our customers time and adding value to businesses collaborated with Ausvita.

Ausvita operates in a similar capacity to existing online directory search services for local and international students offered by universities for it's students, although it does offer a wider range of products. Ausvita operates elements of it's site on a membership basis, Not all aspects of the site will require membership for example; to do a basic search of services, no membership or logon would be required. Membership will be free for users. The problem put forward for the industry project is develop and implement a fully interactive website for Ausvita. The site is to be able to work across multiple web browsers and platforms. The main objective of the site is to provide information to clients. The goal of the site is to attract a user base that will return and become members of the website.

Technology used: Ruby on Rails, AJAX, SQLite2, SVN, RSS

Project 2:

Client team: ANZ

Supervisor: Dr Sita Ramakrishnan

MuseTeam1 members: Nathan Bone, Omar Lahham, Hoang Nguyen

Project overview:

This project, contracted by ANZ, includes the development of a rich set of online financial modeling tools. These tools will be engaging and fun to use, appealing to people of all ages and lifestyles, in order to gain a wide network of users across the board. They will better service specific customer segments with differing financial needs by best identifying a financial strategy by which the consumer can achieve their goals.

Technology used: FLEX, MYSQL, PHP, CSS

