



MONASH University

**FIT3043
Web systems 3**

Unit guide

Semester 2, 2008

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FIT3043 Web systems 3 - Semester 2 , 2008

Unit leader :

Des Casey

Lecturer(s) :

Berwick

- Des Casey

Caulfield

- Des Casey

Clayton

- Des Casey

Gippsland

- Des Casey

South Africa

- Gregory gregoriou

Introduction

Unit synopsis

Serving static and dynamic web pages. An overview of a development environment: ASP.Net with C#. Event driven programming and postback. Namespaces and core objects. State handling.

Using data sources: manipulating XML as a data store, node navigation. Types of server controls. Page life cycles and using server controls. Control families and data templates. Components and user controls. Code behind. .NET Assemblies. Custom Server Controls. XML Web services. Building and deploying services. System Configuration and optimisation. Authentication of users. Ajax with ASP.Net

Mobile Web page development using ASP.Net. Navigating a mobile sites. List controls and data binding. Validation controls. Rich Controls. Styling page output. Writing controls. New device support. Security and state management.

Learning outcomes

- 1 An understanding of web environments and their components
- 2 An understanding of the principles of object oriented Internet applications development
- 3 The knowledge and skills to design and implement web based applications, using a server side applications development environment.
- 4 The knowledge and skills to design and implement mobile applications
- 5 The knowledge and skills to implement data stores in web based applications
- 6 A professional attitude towards the development of web based information systems.

Workload

This unit is taught in ONLINE DAY flexible mode using the Walkabout u-Learning environment. Students will need to spend 12 hours per week working on the unit. On-campus and on-line help sessions are provided.

Unit relationships

Prerequisites

FIT1002 or equivalent

Students should have knowledge of Basic HTML, basic XML, some programming in Java, C, C# or C++

Relationships

FIT3043 is required for the Internet Systems major of the Bachelor of Information Technology & Systems. This unit is prohibited with CSE2030, CPE3016 and IMS2906

Continuous improvement

Monash is committed to 'Excellence in education' and strives for the highest possible quality in teaching and learning. To monitor how successful we are in providing quality teaching and learning Monash regularly seeks feedback from students, employers and staff. Two of the formal ways that you are invited to provide feedback are through Unit Evaluations and through Monquest Teaching Evaluations.

One of the key formal ways students have to provide feedback is through Unit Evaluation Surveys. It is Monash policy for every unit offered to be evaluated each year. Students are strongly encouraged to complete the surveys as they are an important avenue for students to "have their say". The feedback is anonymous and provides the Faculty with evidence of aspects that students are satisfied and areas for improvement.

Student Evaluations

The Faculty of IT administers the Unit Evaluation surveys online through the my.monash portal, although for some smaller classes there may be alternative evaluations conducted in class.

If you wish to view how previous students rated this unit, please go to <http://www.monash.edu.au/unit-evaluation-reports/>

Over the past few years the Faculty of Information Technology has made a number of improvements to its courses as a result of unit evaluation feedback. Some of these include systematic analysis and planning of unit improvements, and consistent assignment return guidelines.

Monquest Teaching Evaluation surveys may be used by some of your academic staff this semester. They are administered by the Centre for Higher Education Quality (CHEQ) and may be completed in class with a facilitator or on-line through the my.monash portal. The data provided to lecturers is completely anonymous. Monquest surveys provide academic staff with evidence of the effectiveness of their teaching and identify areas for improvement. Individual Monquest reports are confidential, however, you can see the summary results of Monquest evaluations for 2006 at <http://www.adm.monash.edu.au/cheq/evaluations/monquest/profiles/index.html>

Improvements to this unit

At the end of each semester, students are asked to complete an online questionnaire about how they found working in an online mode. Feedback from this questionnaire is used to make improvements to the Walkabout learning method and the physical system itself

Unit staff - contact details

Unit leader

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Teaching and learning method

This unit is offered in flexible mode. Students learn from the purpose designed website which contains learning materials including audio lectures, exercises, quizzes, personal note taking. There are also on-campus and online real time help sessions.

Task based learning is used: students have only one deadline: the end of the semester, by which time they need to have completed a series of relatively small tasks. Tasks are corrected progressively as they are submitted.

The content is not presented as weekly topics, but as a specific task, and then associated learning materials that need to be mastered in order to complete the task.

There are also learning quizzes and sub-tasks to help progress to the major task.

Communication, participation and feedback

Monash aims to provide a learning environment in which students receive a range of ongoing feedback throughout their studies. You will receive feedback on your work and progress in this unit. This may take the form of group feedback, individual feedback, peer feedback, self-comparison, verbal and written feedback, discussions (on line and in class) as well as more formal feedback related to assignment marks and grades. You are encouraged to draw on a variety of feedback to enhance your learning.

It is essential that you take action immediately if you realise that you have a problem that is affecting your study. Semesters are short, so we can help you best if you let us know as soon as problems arise. Regardless of whether the problem is related directly to your progress in the unit, if it is likely to interfere with your progress you should discuss it with your lecturer or a Community Service counsellor as soon as possible.

Unit Schedule

Week	Topic	Key dates
1	Serving static and dynamic web pages. Setting up a development environment (ASP.NET). An overview of a development environment.	
2	HTTP protocol reviewed. HTML forms reviewed. Server controls.	
3	C# basics: data types and operators; control structures and functions. Event driven programming and postback. Objects in C#. Static class members and class relationships.	
4	Namespaces and core objects. State handling. Objects and structured data.	
5	Using data sources. Reading data with ADO.NET objects. Manipulating data.	
6	User interaction to retrieve data. Manipulating XML as a data store. Navigating the nodes	
7	Types of server controls. Page lifecycles and using server controls. Intrinsic, validation and rich controls. Data rendering controls. Calendar control example	
8	Components and user controls. Code behind. Compiled .NET Assemblies. Custom Server Controls. Configuration. Optimisation. Authentication.	
9	DataGrids advanced features: paging, sorting, customising. DataLists: customising. DataGrids: master/detail displays	
10	Sending email with ASP.Net. Accessing the web server file system. ASP.Net 2.0 master pages	
11	Introduction to Ajax. Ajax with ASP.Net. Applications using Ajax with ASP.Net	

Mid semester break		
12	Web pages for mobile devices. navigating a mobile site. List controls and data binding. Validation controls. Rich controls. Styling page output. Writing controls. New device support	
13	Revision	

Unit Resources

Prescribed text(s) and readings

None
Not Applicable

Recommended text(s) and readings

Jesse Liberty, Dan Hurwitz, Programming ASP.NET O'Reilly Windows, 1st edition. February 2002.

Anderson, R. et al, Professional ASP.NET 1.0, Wrox Press, Birmingham, 2002.

Required software and/or hardware

The following software can be downloaded from the unit web site. This software is also available in designated laboratories

Firefox. Browser

Microsoft Internet Explorer Version 6.0 or later. Browser for viewing web pages.

40tude HTML Editor

Top Style Lite Editor

Install Zip.

WS-ftp.

Openwave Phone Emulator (Version 7.0).

Microsoft Visual Studio 2008

Software may be:

- downloaded from <http://walkabout.infotech.monash.edu.au/walkabout/fit3043>
- purchased at academic price at good software retailers

Equipment and consumables required or provided

Students may use the facilities available in the computing labs. Information about computer use for students is available from the ITS Student Resource Guide in the Monash University Handbook. You will need to allocate up to 8 hours per week for use of a computer.

Study resources

Study resources we will provide for your study are:

- lecture materials and audio lectures,
- tutorial exercises,

- assignment specifications,
- sample exam and supplementary materials
- a special website, <http://walkabout.infotech.monash.edu.au/walkabout/FIT3043>

Links to these resources can be found on the unit's MUSO site.

Library access

The Monash University Library site contains details about borrowing rights and catalogue searching. To learn more about the library and the various resources available, please go to <http://www.lib.monash.edu.au>. Be sure to obtain a copy of the Library Guide, and if necessary, the instructions for remote access from the library website.

Monash University Studies Online (MUSO)

All unit and lecture materials are available through MUSO (Monash University Studies Online). Blackboard is the primary application used to deliver your unit resources. Some units will be piloted in Moodle. If your unit is piloted in Moodle, you will see a link from your Blackboard unit to Moodle (<http://moodle.monash.edu.au>) and can bookmark this link to access directly. In Moodle, from the Faculty of Information Technology category, click on the link for your unit.

You can access MUSO and Blackboard via the portal: <http://my.monash.edu.au>

Click on the Study and enrolment tab, then Blackboard under the MUSO learning systems.

In order for your Blackboard unit(s) to function correctly, your computer needs to be correctly configured.

For example:

- Blackboard supported browser
- Supported Java runtime environment

For more information, please visit: <http://www.monash.edu.au/muso/support/students/downloadables-student.html>

You can contact the MUSO Support by: Phone: (+61 3) 9903 1268

For further contact information including operational hours, please visit:
<http://www.monash.edu.au/muso/support/students/contact.html>

Further information can be obtained from the MUSO support site:
<http://www.monash.edu.au/muso/support/index.html>

Assessment

Unit assessment policy

earn at least 40% of the marks available for practical work AND at least 40% in the examination. In addition students must receive 50% overall to pass the unit.

Assignment tasks

- **Assignment Task**

Title : Unit tasks

Description :

This unit uses task based learning. Students complete a series of relatively small tasks in the course of the unit. These tasks take the place of the conventional assignments.

Each task typically requires the student to design and code a web application, using ASP.Net.

Weighting : 40%

Criteria for assessment :

Each task comes with a detailed assessment spreadsheet showing the criteria for assessment. Criteria include the completion of the details web site specifications.

Due date : End of semester

Remarks (optional - leave blank for none) :

This unit gives students flexibility with their time. Students may submit tasks at any time throughout the semester. Tasks are corrected at a number of published task correction points. Students gain task feedback through correction sheets and at on campus or online help sessions

- **Assignment Task**

Title : Multiple choice quizzes

Description :

Students complete a series of timed online quizzes during the semester, each of 10 questions. Quizzes test the material learned in the tasks. Quizzes are marked as student completes the quiz, and the student is informed of the result

Weighting : 10%

Criteria for assessment :

Quizzes are multiple choice: right or wrong

Due date : End of semester

Remarks (optional - leave blank for none) :

Like the tasks themselves, the attached quizzes may be taken at any time throughout the semester.

Examinations

- **Examination**

Weighting : 50%

Length : 3 hours

Type (open/closed book) : Closed book

Assignment submission

Assignments will be submitted by electronic submission to the student server. The due date is the date by which the submission must be received.

Assignment coversheets

Task assessment spread sheets will be completed and placed in the student's directory on the student server. Students are notified of a corrected task by email and SMS message.

The task assessment spreadsheet contains information on plagiarism and the student declaration that all submitted work is the student's own.

University and Faculty policy on assessment

Due dates and extensions

The due dates for the submission of assignments are given in the previous section. Please make every effort to submit work by the due dates. It is your responsibility to structure your study program around assignment deadlines, family, work and other commitments. Factors such as normal work pressures, vacations, etc. are seldom regarded as appropriate reasons for granting extensions. Students are advised to NOT assume that granting of an extension is a matter of course.

The only deadline for submitted work is the end of the semester. If you students wish to apply for an extension, then the procedure given on the unit website needs to be followed.

Late assignment

Late assignments are not accepted for correction, and zero marks are awarded accordingly. The only exception to this is in the case of illness or other serious cause. In any such cases, proper third party documentation (e.g. a doctor's certificate) would have to be supplied. Where a doctor's certificate is supplied, then an extension may be allowed for time specified on the doctor's certificate.

Return dates

Students can expect assignments to be returned within two weeks of the submission date or after receipt, whichever is later.

Assessment for the unit as a whole is in accordance with the provisions of the Monash University Education Policy at <http://www.policy.monash.edu/policy-bank/academic/education/assessment/>

Assignment correction sheets will be completed and placed in the student's directory on the student server.

Plagiarism, cheating and collusion

Plagiarism and cheating are regarded as very serious offences. In cases where cheating has been confirmed, students have been severely penalised, from losing all marks for an assignment, to facing disciplinary action at the Faculty level. While we would wish that all our students adhere to sound ethical conduct and honesty, I will ask you to acquaint yourself with Student Rights and Responsibilities (<http://www.infotech.monash.edu.au/about/committees-groups/facboard/policies/studrights.html>) and the Faculty regulations that apply to students detected cheating as these will be applied in all detected cases.

In this University, cheating means seeking to obtain an unfair advantage in any examination or any other written or practical work to be submitted or completed by a student for assessment. It includes the use, or attempted use, of any means to gain an unfair advantage for any assessable work in the unit, where the means is contrary to the instructions for such work.

When you submit an individual assessment item, such as a program, a report, an essay, assignment or other piece of work, under your name you are understood to be stating that this is your own work. If a submission is identical with, or similar to, someone else's work, an assumption of cheating may arise. If you are planning on working with another student, it is acceptable to undertake research together, and discuss problems, but it is not acceptable to jointly develop or share solutions unless this is specified by your lecturer.

Intentionally providing students with your solutions to assignments is classified as "assisting to cheat" and students who do this may be subject to disciplinary action. You should take reasonable care that your solution is not

accidentally or deliberately obtained by other students. For example, do not leave copies of your work in progress on the hard drives of shared computers, and do not show your work to other students. If you believe this may have happened, please be sure to contact your lecturer as soon as possible.

Cheating also includes taking into an examination any material contrary to the regulations, including any bilingual dictionary, whether or not with the intention of using it to obtain an advantage.

Plagiarism involves the false representation of another person's ideas, or findings, as your own by either copying material or paraphrasing without citing sources. It is both professional and ethical to reference clearly the ideas and information that you have used from another writer. If the source is not identified, then you have plagiarised work of the other author. Plagiarism is a form of dishonesty that is insulting to the reader and grossly unfair to your student colleagues.

Register of counselling about plagiarism

The university requires faculties to keep a simple and confidential register to record counselling to students about plagiarism (e.g. warnings). The register is accessible to Associate Deans Teaching (or nominees) and, where requested, students concerned have access to their own details in the register. The register is to serve as a record of counselling about the nature of plagiarism, not as a record of allegations; and no provision of appeals in relation to the register is necessary or applicable.

Non-discriminatory language

The Faculty of Information Technology is committed to the use of non-discriminatory language in all forms of communication. Discriminatory language is that which refers in abusive terms to gender, race, age, sexual orientation, citizenship or nationality, ethnic or language background, physical or mental ability, or political or religious views, or which stereotypes groups in an adverse manner. This is not meant to preclude or inhibit legitimate academic debate on any issue; however, the language used in such debate should be non-discriminatory and sensitive to these matters. It is important to avoid the use of discriminatory language in your communications and written work. The most common form of discriminatory language in academic work tends to be in the area of gender inclusiveness. You are, therefore, requested to check for this and to ensure your work and communications are non-discriminatory in all respects.

Students with disabilities

Students with disabilities that may disadvantage them in assessment should seek advice from one of the following before completing assessment tasks and examinations:

- Faculty of Information Technology Student Service staff, and / or
- your Unit Coordinator, or
- Disabilities Liaison Unit

Deferred assessment and special consideration

Deferred assessment (not to be confused with an extension for submission of an assignment) may be granted in cases of extenuating personal circumstances such as serious personal illness or bereavement. Information and forms for Special Consideration and deferred assessment applications are available at <http://www.monash.edu.au/exams/special-consideration.html>. Contact the Faculty's Student Services staff at your campus for further information and advice.