

CSE5060
Multimedia applications on the web

Unit guide

Semester 2, 2008

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CSE5060 Multimedia applications on the web - Semester 2 , 2008

Unit leader :

Eric Pau

Lecturer(s) :

Caulfield

- Eric Pau

Introduction

Welcome to CSE5060 Multimedia applications on the web for semester 2, 2008. This 6 point unit is elective to some postgraduate degree programs in the Faculty of IT. The unit has been designed to provide you with an understanding of developing web application for the enterprise using the Java programming language. It explores many aspects of enterprise computing, such as persistence, ORM and security.

Unit synopsis

Techniques for developing web applications for the enterprise using the Java programming language. Advanced Java topics for the enterprise and the web such as the Spring Framework, Enterprise JavaBeans(EJBs), JSPs and JDBC. Important WWW programming issues such as security.

Learning outcomes

Knowledge and Understanding

Upon completion of this unit, the students will:

- acquire techniques to develop web applications using the Java programming language
- understand the various advanced Java technologies used to build web applications for the enterprise
- be able to competently use the advanced Java libraries to build a medium-size web application for the enterprise.

Workload

For on campus students, workload commitments are:

- two-hour lecture and
- two-hour tutorial (or laboratory)
- a minimum of 2-3 hours of personal study per one hour of contact time in order to satisfy the reading and assignment expectations.
- You will need to allocate up to 5 hours per week in some weeks, for use of a computer, including time for newsgroups/discussion groups.

Unit relationships

Prerequisites

Before attempting this unit you must have satisfactorily completed CSE5910, CSE9000 or equivalent. You should have knowledge of a sound understanding of the principles of object-oriented programming using Java.

Relationships

CSE5060 is a elective unit in the

- Master of Information Technology (MIT)
- Master of Applied Information Technology (MAIT)
- Master of Multimedia Computing
- (Postgraduate) Diploma in Information Technology

- Master of Digital Communications
- Master of Network Computing

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>

Unit staff - contact details

Unit leader

Mr Eric Pau

Lecturer(s) :

Mr Eric Pau

Teaching and learning method

Tutorial allocation

The timetable for on-campus classes for this unit can be viewed in Allocate+.

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	Unit Introduction / Java Revision	-
2	Agile Development / JDBC	-
3	Introduction to Enterprise Computing and Core Spring	Week 2 Tutorial Exercise due
4	Persistence / ORM I	Week 3 Tutorial Exercise due
5	Persistence / ORM II	Week 4 Tutorial Exercise due
6	Session Bean	Week 5 Tutorial Exercise due
7	Web Tier I	Week 6 Tutorial Exercise due
8	Web Tier II	Week 7 Tutorial Exercise due
9	JMS	Week 8 Tutorial Exercise due
10	Security	Week 9 Tutorial Exercise due
11	Guest Speaker	Research Paper due at 5pm (Fri) 26th Sep
Mid semester break		
12	Presentations on Research Papers	Practical Assignment due at 5pm (Fri) 10th Oct
13	Presentations on Research Papers	

Unit Resources

Prescribed text(s) and readings

none

Recommended text(s) and readings

- R. Johnson, J. Hoeller, A. Arendsen, T. Risberg and C. Sampaleanu. Professional Java Development with the Spring Framework. Wiley Publishing Inc., 2005, ISBN: 0-7645-7483-3
- C. Walls and R. Breidenbach. Spring in Action 2nd Edition. Manning Publications Co., 2008. ISBN: 1-933988-13-4.
- D. Panda, R. Rahman and D. Lane. EJB3 in Action. Manning Publications Co., 2007. ISBN: 10933988-34-7
- R. Sriganesh, G. Brose and M. Silverman. Mastering Enterprise JavaBeans 3.0. Wiley Publishing Inc., 2006. ISBN: 978-0-471-78541-5
- J. Bloch. Effective Java: Programming Language Guide. Prentice Hall PTR, 2001. ISBN: 978-0201310054

Required software and/or hardware

Software Requirement:

- Java Standard Edition 6.0 SDK, Sun Microsystems
- Java EnterpriseEdition 1.5 SDK, Sun Microsystems
- NetBeans IDE 6.x

Software may be downloaded from:

- <http://java.sun.com>
- <http://www.netbeans.org/>

Hardware Requirements:

- A PC with Windows OS installed

Study resources

Study resources we will provide for your study are:

Unit Homepage can be accessed on MUSO, where lecture slides, weekly tutorial requirements, assignment specifications, sample solution, supplementary material will be posted.

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

To pass this unit you must obtain:

- at least 50% of the total marks given for the unit; AND
- at least 50% of the marks given for the research paper; AND
- at least 40% of the total marks given for the tutorial exercises and the practical assignment combined.

Your score for the unit will be calculated by:

$$(P * 0.3) + (A * 0.5) + (T * 0.2)$$

Where:

P = research paper percentage

A = practical assignment percentage

T = tutorial exercises percentage

Assignment tasks

• Assignment Task

Title : Tutorial Exercises

Description :

Weekly programming tasks designed around that week's lecture material.

Weighting : 20%

Criteria for assessment :

The weekly specification and marking criteria will be distributed in that week.

Due date : Each weekly exercise will be due for assessment in the following week's class.

• Assignment Task

Title : JEE Web Application

Description :

This assignment will require students to design and implement a web application Java enterprise technologies.

Weighting : 50%

Criteria for assessment :

The specification and the marking criteria will be released in Week 5 of the semester.

Due date : 5pm Friday 10th Oct 2008

- **Assignment Task**

Title : Research Paper

Description :

A research paper on a topic related to enterprise application development of approximately 2000-2500 words.

Weighting : 30%

Criteria for assessment :

The specification and the marking criteria will be released in Week 4 of the semester.

Due date : 5pm Friday 26th Sep 2008

Assignment submission

- Tutorial exercises will be marked during the weekly tutorial sessions.
- The Research Paper and Practical assignment should be submitted electronically via MUSO. The due date is the date by which the the submission is to be posted. A completed assignment coversheet must be included with each electronic submission.

Assignment coversheets

Assignment coversheets can be found at the "Student assignment coversheets"
(<http://infotech.monash.edu.au/resources/student/assignments/>) page on the faculty website

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.

Late assignment

Assignments received after the due date will be subject to a penalty of a drop in grade for each 5 day period. Assignments received later than one week after the due date will not normally be accepted.

This policy is strict because comments or guidance will be given on assignments as they are returned, and sample solutions may also be published and distributed, after assignment marking or with the returned assignment.

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/>

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.