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FIT5192 Internet applications and web services - Semester 2, 2012

This unit focuses on the design and development of Internet applications with a focus on web services technology. The unit presents an overview of multi-tier web applications and technologies that operate in different layers of typical web architectures. In particular, the unit will introduce the emergence of web services from middleware and Enterprise Architecture Integration (EAI), the fundamental concepts of Service Oriented Architectures (SOA), web services and the key standards that underpin web services: SOAP, WSDL and UDDI. Various service discovery protocols will be evaluated and compared. This unit also teaches a range of web application development technologies focusing on state-of-the-art object oriented scripting languages for mobile and conventional web applications. The unit will provide students with skills to enable web page functionality through scripting, to program and deploy web services as well as to access and consume/use web services. It is assumed that all students have a strong knowledge of object-oriented programming.

Contact Hours

10 hrs lectures/wk, 10 hrs laboratories/wk for 5 weeks

Workload

Student workload commitments are:

- 10-hour lectures and
- 10-hour tutorials per week (requiring advance preparation)
- up to 30 hours per week personal study in order to satisfy the preparation, reading and assignment expectations

Unit Relationships

Prerequisites

It is assumed that all students have a strong knowledge of object-oriented programming, e.g. Java, C# or C++.

Chief Examiner

Dr Jue Xie

Campus Lecturer
Academic Overview

Outcomes

At the completion of this unit students will have -

- an understanding of web environments and their components;
- an understanding of the principles of object-oriented scripting and the knowledge of the various uses to which scripting may be put;
- the knowledge and skills to implement web applications, in an applications development environment;
- an understanding of the principles of large scale, and small scale, web site development including an understanding of advanced design principles;
- an understanding of the uses of mark-up languages and meta-languages in structuring data, particularly in a web context;
- the knowledge and skills to implement web sites varying size and complexity, using XHTML and XML;
- a professional attitude towards the development of web-based information systems.

Graduate Attributes

Monash prepares its graduates to be:

1. responsible and effective global citizens who:
   a. engage in an internationalised world
   b. exhibit cross-cultural competence
   c. demonstrate ethical values

   critical and creative scholars who:
   a. produce innovative solutions to problems
   b. apply research skills to a range of challenges
   c. communicate perceptively and effectively

Assessment Summary

Examination (2 hours): 40%; In-semester assessment: 60%

<table>
<thead>
<tr>
<th>Assessment Task</th>
<th>Value</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignment 1 - Web Services using Java</td>
<td>30%</td>
<td>Friday 23 November 2012 at 11:55PM (Week 2)</td>
</tr>
<tr>
<td>Assignment 2 - ASP.NET</td>
<td>30%</td>
<td>Friday 7 December 2012 at 11:55PM (Week 4)</td>
</tr>
<tr>
<td>Examination 1</td>
<td>40%</td>
<td>To be advised</td>
</tr>
</tbody>
</table>
Teaching Approach

Lecture and tutorials or problem classes

This teaching and learning approach provides facilitated learning, practical exploration and peer learning.

Feedback

Our feedback to You

Types of feedback you can expect to receive in this unit are:

- Informal feedback on progress in labs/tutes
- Graded assignments with comments
- Interviews

Your feedback to Us

Monash is committed to excellence in education and regularly seeks feedback from students, employers and staff. One of the key formal ways students have to provide feedback is through SETU, Student Evaluation of Teacher and Unit. The University’s student evaluation policy requires that every unit is evaluated each year. Students are strongly encouraged to complete the surveys. The feedback is anonymous and provides the Faculty with evidence of aspects that students are satisfied and areas for improvement.

For more information on Monash's educational strategy, and on student evaluations, see:
http://www.policy.monash.edu/policy-bank/academic/education/quality/student-evaluation-policy.html

Previous Student Evaluations of this unit

If you wish to view how previous students rated this unit, please go to

Required Resources

Please check with your lecturer before purchasing any Required Resources. Limited copies of prescribed texts are available for you to borrow in the library, and prescribed software is available in student labs.

- Eclipse IDE (download from www.eclipse.org)
- Apache Tomcat Server (download from tomcat.apache.org)
- MySQL (download from www.mysql.com)
- Microsoft Visual Studio
## Unit Schedule

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<tr>
<th>Week</th>
<th>Activities</th>
<th>Assessment</th>
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<tbody>
<tr>
<td>0</td>
<td>Introduction</td>
<td>No formal assessment or activities are undertaken in week 0</td>
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<tr>
<td>1</td>
<td>Sessions 1-5 for SOA Introduction, XML Refresher, Web Services Standards</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Sessions 6-10 for Web Services Composition, Reliable Messaging, Security, Metrics and Service Level Agreements</td>
<td>Assignment 1 due Friday 23 November 2012 at 11:55PM</td>
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<tr>
<td>3</td>
<td>Sessions 11-15 for Web Services Advanced Topics, Introduction to C# and ASP.NET</td>
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<td>4</td>
<td>Sessions 16-20 for ASP.NET Server Controls and Data Source Controls</td>
<td>Assignment 2 due Friday 7 December 2012 at 11:55PM</td>
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<td>5</td>
<td>Sessions 21-24 for Web Site Creation Using ASP.NET MVC, Revision and Discussion</td>
<td>Examination 1 on Friday 14 December 2012</td>
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*Unit Schedule details will be maintained and communicated to you via your MUSO (Blackboard or Moodle) learning system.*
Assessment Requirements

Assessment Policy

Faculty Policy - Unit Assessment Hurdles

Academic Integrity - Please see the Demystifying Citing and Referencing tutorial at
http://lib.monash.edu/tutorials/citing/

Assessment Tasks

Participation

• Assessment task 1

  Title:  Assignment 1 - Web Services using Java

  Description:  This task will assess students' practical and programming skills in web services
development, deployment and invocation.

  Weighting:  30%

  Criteria for assessment:
  1. The level of accomplishment in each task.
  2. The degree the programs meet the specified requirements.
  3. How well the code is written and maintained.

  Due date:  Friday 23 November 2012 at 11:55PM (Week 2)

• Assessment task 2

  Title:  Assignment 2 - ASP.NET

  Description:  ASP.NET web site for a fictitious company, which allows user registration login and
  searching.

  Weighting:  30%

  Criteria for assessment:
  1. The level of accomplishment in each task.
  2. The degree the programs meet the specified requirements.
  3. How well the code is written and maintained.

  Due date:  Friday 7 December 2012 at 11:55PM (Week 4)
Examinations

- Examination 1

  Weighting: 40%
  Length: 2 hours
  Type (open/closed book): Closed book
  Electronic devices allowed in the exam: None

Assignment submission

It is a University requirement (http://www.policy.monash.edu/policy-bank/academic/education/conduct/plagiarism-procedures.html) for students to submit an assignment coversheet for each assessment item. Faculty Assignment coversheets can be found at http://www.infotech.monash.edu.au/resources/student/forms/. Please check with your Lecturer on the submission method for your assignment coversheet (e.g. attach a file to the online assignment submission, hand-in a hard copy, or use an online quiz).

Online submission

If Electronic Submission has been approved for your unit, please submit your work via the VLE site for this unit, which you can access via links in the my.monash portal.

Extensions and penalties

Submission must be made by the due date otherwise penalties will be enforced.


Returning assignments

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

Policies

Monash has educational policies, procedures and guidelines, which are designed to ensure that staff and students are aware of the University’s academic standards, and to provide advice on how they might uphold them. You can find Monash’s Education Policies at: http://policy.monash.edu.au/policy-bank/academic/education/index.html

Key educational policies include:

- Plagiarism (http://www.policy.monash.edu/policy-bank/academic/education/conduct/plagiarism-policy.html)
- Special Consideration (http://www.policy.monash.edu/policy-bank/academic/education/assessment/special-consideration-policy.html)
- Grading Scale (http://www.policy.monash.edu/policy-bank/academic/education/assessment/grading-scale-policy.html)
- Discipline: Student Policy (http://www.policy.monash.edu/policy-bank/academic/education/conduct/student-discipline-policy.html)
- Academic Calendar and Semesters (http://www.monash.edu.au/students/key-dates/)
- Codes of Practice for Teaching and Learning (http://www.policy.monash.edu/policy-bank/academic/education/conduct/suppdocs/code-of-practice-teaching-and-learning.html)

Student services

The University provides many different kinds of support services for you. Contact your tutor if you need advice and see the range of services available at www.monash.edu.au/students. For Sunway see http://www.monash.edu.my/Student-services, and for South Africa see http://www.monash.ac.za/current/

The Monash University Library provides a range of services and resources that enable you to save time and be more effective in your learning and research. Go to http://www.lib.monash.edu.au or the library tab in my.monash portal for more information. At Sunway, visit the Library and Learning Commons at http://www.lib.monash.edu.my/. At South Africa visit http://www.lib.monash.ac.za/.

Academic support services may be available for students who have a disability or medical condition. Registration with the Disability Liaison Unit is required. Further information is available as follows:

- Website: http://monash.edu/equity-diversity/disability/index.html
- Email: dlu@monash.edu
- Drop In: Equity and Diversity Centre, Level 1 Gallery Building (Building 55), Monash University, Clayton Campus, or Student Community Services Department, Level 2, Building 2, Monash University, Sunway Campus
- Telephone: 03 9905 5704, or contact the Student Advisor, Student Community Services at 03 55146018 at Sunway
Reading list