MONASH University
Information Technology

FIT2013
e-Business software technologies

Unit Guide

Semester 1, 2011

Last updated: 27 Feb 2011

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FIT2013 e-Business software technologies - Semester 1, 2011

This unit, together with FIT3009, provides a top-to-bottom coverage of e-Business Systems. The emphasis in this unit is on the technologies used to implement e-Business Systems, ie. the low level of such systems. Although this unit is entirely suitable for a future developer of e-Business Systems, it is optimally targeted at future managers of such development. Thus practical exercises will be illustrative rather than industrial strength and technology issues will be given equal coverage with technology details. The primary aim of the unit is to familiarise students with as many of the currently popular e-Business technologies as possible so that their design and implementation decisions in the future will be informed and therefore produce successful systems with a high degree of probability.

Mode of Delivery

Clayton (Day)

Contact Hours

2 hrs lectures/wk, 2 hrs laboratories/wk

Workload

Workload commitments are:

- two-hour lecture and
- two-hour tutorial (or laboratory) (requiring advance preparation)
- 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

Prohibitions

BUS1042

Prerequisites

FIT1002 or BUS1060 or CSE1301

Chief Examiner

Sue Bedingfield

Campus Lecturer

Clayton

Stephen Huxford

Contact hours: To be advised

Learning Objectives

At the completion of this unit students will have -

A knowledge and understanding of:

- client-side programming ((X)HTML, JavaScript, CSS, DHTML, DOM);
- server-side programming (ASP.NET, Ruby on Rails, JSF);
- basic XML technologies (XML, DTD, XPath, XSLT, XMLSchemas);
- web Servers (IIS, Apache);
- current, popular IDEs and programming technologies
- security (encryption, transport and document level, Digital Signatures, SSL, TSL, Access Control Standards);
- standards Bodies (IETF, W3C, OASIS, OAGIS etc);
- eBusiness formal and de jour Standards.

Developed attitudes that enable them to:

- have an appreciation that eBusiness Systems are better designed and managed by professionals with a sound knowledge of the technologies used to build these systems;
- have an appreciation that underlying technologies often directly impact the Business goals of an eBusiness System via constraints and opportunities presented by the technologies;
- have a belief that all existing technologies in back-end systems can be integrated by appropriate middleware;
- value the importance of choosing to use established technology standards where possible.

Developed the skills to:

- develop a small eBusiness system (B2B or B2C and IDE/implement the appropriate technology;
- create an appropriate Technical Architecture for a specified, non-trivial eBusiness solution;
- create XML documents, schemas for these documents, transforming and querying such documents using fundamental XML skills.

Demonstrated the communication skills necessary to:

- identify and communicate the technical opportunities and problems associated with a particular technical solution to a business solution;
- understand the relationship between Business and Technical analysts within an eBusiness System Development.

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

Assessment Task	Value	Due Date
11 Laboratory Assessments	Each of 10 tutorials will be worth 4 marks for a total of 40% of your final mark for the unit	Tutorial work will be marked in tutorials
Examination 1	60%	To be advised

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:

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.monash.edu.au/about/monash-directions/directions.html
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
https://emuapps.monash.edu.au/unitevaluations/index.jsp

Required Resources

Microsoft Visual Studio.Net 2008

Latest browser (eg. Mozilla or IE)

Microsoft IIS

Unit Schedule

Week	Date*	Activities	Assessment
0	21/02/11		No formal assessment or activities are undertaken in week 0
1	28/02/11	Admin + Introduction	no tutorial
2	07/03/11	CSS	tute worth 4% (top 10 tutes count)
3	14/03/11	JavaScript	tute worth 4% (top 10 tutes count)
4	21/03/11	JavaScript	tute worth 4% (top 10 tutes count)
5	28/03/11	JavaScript	tute worth 4% (top 10 tutes count)
6	04/04/11	JavaScript/DOM	tute worth 4% (top 10 tutes count)
7	11/04/11	DOM	tute worth 4% (top 10 tutes count)
8	18/04/11	Servers, Ajax and XML	tute worth 4% (top 10 tutes count)
		Mid semester break	
9	02/05/11	Ruby on Rails	tute worth 4% (top 10 tutes count)
10	09/05/11	Ruby on Rails	tute worth 4% (top 10 tutes count)
11	16/05/11	ASP.NET	tute worth 4% (top 10 tutes count)
12	23/05/11	ASP.NET	tute worth 4% (top 10 tutes count)
	30/05/11	SWOT VAC	No formal assessment is undertaken SWOT VAC

*Please note that these dates may only apply to Australian campuses of Monash University. Off-shore students need to check the dates with their unit leader.

Assessment Policy

To pass a unit which includes an examination as part of the assessment a student must obtain:

- 40% or more in the unit's examination, and
- 40% or more in the unit's total non-examination assessment, and
- an overall unit mark of 50% or more.

If a student does not achieve 40% or more in the unit examination or the unit non-examination total assessment, and the total mark for the unit is greater than 50% then a mark of no greater than 49-N will be recorded for the unit

Assessment Tasks

Participation

- **Assessment task 1**

   Title:
   11 Laboratory Assessments
   Description:
   During each lab session students will be required to complete specified coding tasks. This work will be marked in the same laboratory session.

   Each laboratory is worth 4% of the final mark. The best 10 of the 11 laboratory marks will constitute the 40% non-exam mark for each student.
   Weighting:
   Each of 10 tutorials will be worth 4 marks for a total of 40% of your final mark for the unit
   Criteria for assessment:
   Due date:
   Tutorial work will be marked in tutorials

Examinations

- **Examination 1**

   Weighting:
   60%
   Length:
   3 hours
   Type (open/closed book):
   Closed book
   Electronic devices allowed in the exam:
   None

Assignment submission

Assignment coversheets are available via "Student Forms" on the Faculty website:
http://www.infotech.monash.edu.au/resources/student/forms/
You MUST submit a completed coversheet with all assignments, ensuring that the plagiarism declaration section is signed.

Extensions and penalties

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

You must negotiate any extensions formally with your campus unit leader via the in-semester special consideration process:
http://www.infotech.monash.edu.au/resources/student/equity/special-consideration.html.

Returning assignments

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

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)
- Assessment
  (http://www.policy.monash.edu/policy-bank/academic/education/assessment/assessment-in-coursework-po
- Special Consideration
  (http://www.policy.monash.edu/policy-bank/academic/education/assessment/special-consideration-policy.h
- 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/);
- Orientation and Transition (http://www.infotech.monash.edu.au/resources/student/orientation/); and
- Academic and Administrative Complaints and Grievances Policy
  (http://www.policy.monash.edu/policy-bank/academic/education/management/complaints-grievance-policy.

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 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. Students who have a disability or medical condition are welcome to contact the Disability Liaison Unit to discuss academic support services. Disability Liaison Officers (DLOs) visit all Victorian campuses on a regular basis

- Website: http://adm.monash.edu/sss/equity-diversity/disability-liaison/index.html;
- Telephone: 03 9905 5704 to book an appointment with a DLO;
- Email: dlu@monash.edu
- Drop In: Equity and Diversity Centre, Level 1 Gallery Building (Building 55), Monash University, Clayton Campus.

The following websites contain relevant and useful information:

www.w3c.org

msdn.microsoft.com/en-us/vstudio