FIT5032
Internet applications development

Unit Guide

Semester 2, 2013

The information contained in this unit guide is correct at time of publication. The University has the right to change any of the elements contained in this document at any time.

Last updated: 25 Jul 2013
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FIT5032 Internet applications development - Semester 2, 2013

This unit provides students with the knowledge, understanding and skills required to develop an application system which uses a web interface to a back-end database. The unit assumes a sound basic knowledge of programming and database concepts and skills as developed in the introductory units in these areas. The emphasis in the unit is on mastery of the key concepts and the basic knowledge and skills required to build this kind of application. The unit will provide students with an awareness of the wide range of technologies which are used to support this kind of application, but will examine only a limited number of these technologies to demonstrate the key concepts and their application.

The unit will take a strongly practical focus in examining the technology issues involved, and highlight the key issues which a developer needs to address in developing applications of this kind for real-world systems.

**Mode of Delivery**

Caulfield (Evening)

**Contact Hours**

2 hrs lectures/wk, 2 hrs laboratories/wk

**Workload requirements**

2 hour lecture per week
2 hour tutorial per week
and 8 hours personal study time per week in order to satisfy the work and assignment expectations.

**Unit Relationships**

**Prohibitions**

CPE5011, CPE4003

**Prerequisites**

Recommended knowledge: It is assumed that all students have a strong knowledge of Java programming.

**Chief Examiner**

Ms Janet Fraser

**Campus Lecturer**
Caulfield

Javier Candeira

Tutors

Caulfield

Ali Alammary

Ben Bina
Academic Overview

Learning Outcomes

At the completion of this unit students will be able to -

- recall the history of web applications development;
- design, construct and publish web-database applications;
- understand and analyse the key technological issues confronting developers building web-database applications;
- understand the key features of programming languages which are commonly used for developing web-database application;
- describe the MVC design pattern and construct a web-database application using the MVC design pattern;
- apply a professional attitude towards the development of web-database applications.
## Unit Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Activities</th>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No formal assessment or activities are undertaken in week 0</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Web-database technologies, the historical development of dynamic web pages, the current state of play, web database interface processes. Introduction to/history of ASP.NET. software requirements, installation. Introduction to Visual Studio, creating a web site</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>HTML forms limitation, ASP.NET Server Controls Part 1, event driven programming and postback. ASP.NET Server Controls Part 2, Microsoft ASP.NET Online Documentation</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Introduction to C#, data types, operators and language constructs</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Master Pages, Skins and Themes</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>ASP.NET Server Controls Part 3, Validation, Navigation and Login controls</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Creating a simple MS Access database, ASP.NET Data Source controls - Access. Data controls, data source controls - user interaction</td>
<td>Assignment 1 due Friday 6 September 2013 at 2pm</td>
</tr>
<tr>
<td>7</td>
<td>Data source controls - manipulating data, GridView control - paging and sorting, GridView control - advanced sorting, customising the GridView control.</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Sending email, accessing web server file system, Uploading, Reading, Creating, Copying, Deleting files.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Introduction to ASP.NET MVC</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Creation of a simple web site using ASP.NET MVC</td>
<td>Assignment 2 due Friday 11 October 2013 at 2pm</td>
</tr>
<tr>
<td>11</td>
<td>ASP.NET MVC extension material</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>ASP.NET MVC extension material</td>
<td>Assignment 3 due Friday 25 October 2013 at 2pm</td>
</tr>
<tr>
<td></td>
<td>SWOT VAC</td>
<td>No formal assessment is undertaken in SWOT VAC</td>
</tr>
</tbody>
</table>

*Unit Schedule details will be maintained and communicated to you via your learning system.*
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 - ASP.NET</td>
<td>15%</td>
<td>Friday 6 September 2013 at 2pm</td>
</tr>
<tr>
<td>Assignment 2 - ASP.NET</td>
<td>25%</td>
<td>Friday 11 October 2013 at 2pm</td>
</tr>
<tr>
<td>Assignment 3 - ASP.NET MVC</td>
<td>20%</td>
<td>Friday 25 October 2012 at 2pm</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.
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 - ASP.NET

Description:
ASP.NET web site for a fictitious company.

Weighting:
15%

Criteria for assessment:
Quality of completed work.

Confirm with Lecturer about specific location of marking guide available at
http://walkabout.infotech.monash.edu.au/walkabout/fit5032

Due date:
Friday 6 September 2013 at 2pm

Remarks:
Assignment must be submitted to student server by due date and time.

• 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:
25%

Criteria for assessment:
Quality of completed work.

Confirm with Lecturer about specific location of marking guide available at
http://walkabout.infotech.monash.edu.au/walkabout/fit5032

Due date:
Friday 11 October 2013 at 2pm

Remarks:
Assignment must be submitted to student server by due date and time.
Assessment Requirements

• Assessment task 3

Title: Assignment 3 - ASP.NET MVC
Description: ASP.NET MVC web site for a fictitious company.
Weighting: 20%
Criteria for assessment: Quality of completed work.

Confirm with Lecturer about specific location of marking guide available at http://walkabout.infotech.monash.edu.au/walkabout/fit5032
Due date: Friday 25 October 2012 at 2pm
Remarks: Assignment must be submitted to student server by due date and time.

Examinations

• Examination 1

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

Learning resources

Monash Library Unit Reading List
http://readinglists.lib.monash.edu/index.html

Feedback to you

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

• Informal feedback on progress in labs/tutes
• Graded assignments without comments

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.monash.edu.au/exams/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.

Resubmission of assignments

Resubmission of assignments is not allowed.

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). Please note that it is your responsibility to retain copies of your assessments.

Online submission

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


Key educational policies include:

- Academic integrity;
  http://www.policy.monash.edu/policy-bank/academic/education/conduct/student-academic-integrity-policy.html
- Assessment in Coursework Programs;
- 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/dates/
- Orientation and Transition; http://intranet.monash.edu.au/infotech/resources/students/orientation/
- Academic and Administrative Complaints and Grievances Policy;
  http://www.policy.monash.edu/policy-bank/academic/education/management/complaints-grievance-policy.html
- Code of Practice for Teaching and Learning;
- Graduate Attributes Policy
  http://www.policy.monash.edu/policy-bank/academic/education/management/monash-graduate-attributes-policy.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 http://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/.

Monash University Library

The Monash University Library provides a range of services, resources and programs that enable you to save time and be more effective in your learning and research. Go to 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/.
Disability Liaison Unit

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://www.monash.edu/equity-diversity/disability/index.html
Telephone: 03 9905 5704 to book an appointment with a DLO; or contact the Student Advisor, Student Community Services at 03 55146018 at Sunway
Email: dlu@monash.edu
Drop In: Equity and Diversity Centre, Level 1, Building 55, Clayton Campus, or Student Community Services Department, Level 2, Building 2, Monash University, Sunway Campus

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 the Student Evaluation of Teaching and Units (SETU) survey. 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, see:

www.monash.edu.au/about/monash-directions and on student evaluations, see:
www.policy.monash.edu/policy-bank/academic/education/quality/student-evaluation-policy.html

Previous Student Evaluations of this Unit

Based on previous student feedback this unit is considered to be well structured and no changes have been made for this semester.

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