FIT5032
Internet applications development

Unit Guide

Semester 2, 2012

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: 16 Jul 2012
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FIT5032 Internet applications development - Semester 2, 2012

This unit has been designed to provide students with skills to develop Internet Applications with a focus on enabling web page functionality through scripting. The unit presents an overview of multi-tier web applications and the technologies that operate in different layers of typical web architectures. The unit teaches a range of web application development technologies focusing on state-of-the-art object oriented scripting languages for mobile and conventional web applications. Techniques for scripting on the client side (e.g. JavaScript) and scripting on the server side.

Mode of Delivery

Caulfield (Day)

Contact Hours

2 hrs lectures/wk, 2 hrs laboratories/wk

Workload

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

Janet Fraser

Consultation hours: Mon 2-3, Tue 10-12, Thu 1:30-2:30

Mark Carman
Tutors

Caulfield

Parisa Mahjoubi
Bin Wu
Mihir Mone
Jeffry Susanto
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 - ASP.NET</td>
<td>15%</td>
<td>Friday 31 August 2012 at 2pm</td>
</tr>
<tr>
<td>Assignment 2 - ASP.NET</td>
<td>25%</td>
<td>Friday 5 October 2012 at 2pm</td>
</tr>
<tr>
<td>Assignment 3 - ASP.NET MVC</td>
<td>20%</td>
<td>Friday 19 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.

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 without comments

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 https://emuapps.monash.edu.au/unitevaluations/index.jsp
# 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 31 August 2012 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 5 October 2012 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 19 October 2012 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 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 - 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 31 August 2012 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 5 October 2012 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 19 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

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.

You must negotiate any extensions formally with your campus unit leader via the in-semester special consideration process:
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.
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/);
- Orientation and Transition (http://www.infotech.monash.edu.au/resources/student/orientation/); and
- Codes of Practice for Teaching and Learning (http://www.policy.monash.edu/policy-bank/academic/education/conduct/supppdocs/code-of-practice-tea).

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