



Unit Guide

FIT5032

Internet applications development

Semester 2, 2019

We acknowledge and pay respects to the Traditional Owners and Elders - past, present and emerging - of the lands and waters on which Monash University operates.

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.

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Unit handbook information

Synopsis

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.

Location(s) and mode(s) of delivery

Caulfield (On-campus)

Workload requirements

Minimum total expected workload equals 12 hours per week comprising:

- (a.) Contact hours for on-campus students:
 - Two hours of lectures
 - One 2-hour laboratory
- (b.) Additional requirements (all students):
 - A minimum of 8 hours independent study per week for completing lab and project work, private study and revision.

Unit relationships

Prerequisites

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

For students enrolled in E3001, E3002, E3005, E3010, E3011, E3007 completing the Software Engineering specialisation: FIT2099

Prohibitions

CPE5011, CPE4003

Co-requisites

None

Staff details

Chief Examiner

[Mr ABM Russel](#)

Campus Lecturer(s)

Caulfield

Name: Mr ABM Russel

Email: ABM.Russel@monash.edu

Academic overview

Learning outcomes

At the completion of this unit, students should be able to:

1. demonstrate the impact of the history of web applications development on current web-technology;
2. design, construct and publish web-database applications;
3. analyse and critique the key technological issues confronting developers building web-database applications;
4. test the key features of programming languages which are commonly used for developing web-database application;
5. assess the MVC design pattern and construct a web-database application using the MVC design pattern;
6. apply, analyse and critique a professional approach towards the development of web-database applications.

Teaching approach

Lecture and tutorials or studio classes

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

Live streaming

If you have been allocated to a lecture activity as a livestream, you will participate in this activity online. A link to the livestreams will be available in your Moodle unit.

- For information on how to participate in your lectures via live streaming, you can review this guide created by the library: <https://guides.lib.monash.edu/learning-tools/video>
- If you have any technical issues please contact the service desk: <https://www.monash.edu/esolutions/contact>
- If you need more information on timetabling you can visit their site: <https://www.monash.edu/timetables/fix-problems>

Assessment summary

NOTE: From 1 July 2019, the duration of all exams is changing to combine reading and writing time. The new exam duration for this unit is 2 hours and 10 minutes.

Examination (2 hours and 10 minutes): 50%; In-semester assessment: 50%

Assessment task	Value	Due date
Portfolio and Learning Summary	40%	Friday week 12 at midnight
Studio assessment tasks	10%	Friday of week 5, 8 and 11.
Examination	50%	To be advised

Unit schedule

For units with on-campus classes, teaching activities are normally scheduled to start on the hour (teaching will commence on the hour and conclude 10 minutes prior to the scheduled end time).

Week	Activities	Assessment
0		No formal assessment or activities are undertaken in week 0
1	Intro to Web development and ASP.Net	Note: Tutorial/Studio classes commence in Week 1
2	The front end, user experience, accessibility and ASP.Net Scaffolding	
3	Introduction to C# and Version control	
4	Entity Framework	
5	Fundamentals of Client side Javascript	Studio Assessment 1 due
6	Validation	
7	Security and Microsoft Identity	
8	Sending Email, File Upload and Signal R	Studio Assessment 2 due
9	Web Optimisations and and Evolution of .Net Core	
10	Modern JavaScript Web Development Approaches	
11	Testing and Deployment in Cloud	Studio Assessment 3 due
12	Revision	Final Submission of Portfolio and Learning Summary
	SWOT VAC	No formal assessment is undertaken in SWOT VAC
	Examination period	LINK to Assessment Policy: http://policy.monash.edu.au/policy-bank/academic/education/assessment/assessment-in-coursework-policy.html

*Unit Schedule details will be maintained and communicated to you via your learning system.

Assessment requirements

Faculty Unit Assessment Pass Policy

To pass a unit which includes an examination as part of the assessment, a student must obtain, unless otherwise approved and published:

- 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:

- equal to or greater than 50%, then a mark of 49-N will be recorded for the unit.
- less than 50% then the actual mark for the unit will be recorded.

To pass a unit with 100% in-semester assessment, a student must obtain, unless otherwise approved and published:

- an overall unit mark equal to or greater than 50%.

Assessment tasks

Assessment title: Portfolio and Learning Summary

Learning outcomes: Learning Outcomes 1-6

Type: Individual assessment task

Details of task: A portfolio of work and a learning summary will be prepared based on weekly feedback tasks that will build into an ASP.NET website for a fictitious organisation, which allows user registration login and searching. This website application will use ASP.NET MVC and JavaScript frameworks.

The details of the Portfolio are:

- 8 Weekly Tasks that are based directly on the Lecture and Studio activities, that demonstrate the basic levels of the learning outcomes for the unit
- A design report and code implementation of the ASP.NET website for a fictitious organisation.

Value: 40%

Criteria for marking:

- The degree to which the portfolio and learning summary meet the specification requirements.
- A detailed marking guide will be available on Moodle.

Due date: Friday week 12 at midnight

Estimated return date: 2 weeks after submission

Additional information:

- The Final Portfolio and Learning summary must be submitted to Moodle by the due date and time.
 - Demonstration and Interviews for the Distinction level and High Distinction submissions will be held during week 12 or week 13.
-

Assessment title: Studio assessment tasks

Learning outcomes: Learning Outcomes 1-6

Type: Individual assessment task

Details of task: Students will submit results from three of their studio tasks via Moodle submission.

Value: 10%

Criteria for marking: Correctness and complement of submission of assigned studio tasks.

Due date: Friday of week 5, 8 and 11.

Estimated return date: Within one week of submission

Examination

This unit may employ electronic assessment for the final exam. Further details will be provided to you by Week 4 of Semester.

Title: Examination

Value: 50%

Length: 2 hours and 10 mins

Type: Closed book

Electronic devices allowed: None

Learning outcomes assessed: Learning Outcomes 1-6

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 lecturer via the in-semester special consideration process: <http://www.monash.edu.au/exams/special-consideration.html>

Late submissions (after week 12) will have a penalty of 10% excluding weekends, public holidays etc.

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

Feedback will be given during the semester based on the weekly tasks. Once the final portfolio is submitted in week 12, resubmissions are not allowed.

Referencing requirements

To build your skills in citing and referencing, and using different referencing styles, see the online tutorial Academic Integrity: Demystifying Citing and Referencing at <http://www.lib.monash.edu/tutorials/citing/>

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Assignment submission

It is a University requirement (<http://www.policy.monash.edu/policy-bank/academic/education/conduct/student-academic-integrity-managing-plagiarism-collusion-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 electronic submission).

Please note:

- 1. It is your responsibility to retain copies of your assessments.**
- 2. Assessments submitted without an assignment coversheet will not be marked.**

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.

Please keep a copy of tasks completed for your records.

Feedback to you

Graded assignments without comments
Interviews
Quiz results
Examination feedback after results publication
Informal feedback on progress in labs/tutes

Learning resources

Monash Library Unit Reading List (if applicable to the unit): <http://monash.rl.talis.com/index.html>
Research and Learning Online: www.monash.edu/rlo

Required resources

Students generally must be able to complete the requirements of their course without the imposition of fees that are additional to the student contribution amount or tuition fees. However, students may be charged certain incidental fees or be expected to make certain purchases to support their study. For more information about this, refer to the Higher Education Administrative Information for Providers, Chapter 18, Incidental Fees at <http://education.gov.au/help-resources-providers>.

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.

Additional unit costs

The lecture will use the MARS/Flux audience response system. Students are advised to bring a mobile device to the lecture.

Bring your own device

Please note: This is a bring your own device unit. You will be expected to bring a web-connected device to class to access software. If your unit is listed on the [MoVE website](#), you can access specialist software via move.monash.edu. For more information, visit monash.edu/move.

Previous student evaluations of unit

One of the formal ways students have to provide feedback on teaching and their learning experience is through the Student Evaluation of Teaching and Units (SETU) survey. The feedback is anonymous and provides the Faculty with evidence of aspects that students are satisfied with and areas for improvement.

Previous student evaluations of this unit

In response to previous SETU results of this unit, the following changes have been made:

- More practical tasks along with readings aligned with lecture topics. We will also provide an ungraded test as preparation for the exam, and we have added assessment tasks for studio activities (which previously were part of larger assignments).
- Focus on the MVC components of web application development
- Alignment of assessment tasks to industry relevant learning outcomes

Student feedback has highlighted the many strength(s) in this unit:

- The learning material enabled the student to achieve the unit's learning objectives
- The learning resources in the unit supported the student's studies
- The organisation and progression of the topics in this unit made sense to the student

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

<https://www.monash.edu/ups/setu/about/setu-results/unit-evaluation-reports>

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If you would like to know more about SETU, please go to www.monash.edu/ups/setu.

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://www.policy.monash.edu/policy-bank/academic/education/index.html>

Student Academic Integrity Policy

www.monash.edu/__data/assets/pdf_file/0004/801841/Student-Academic-Integrity-Policy.pdf

Special Consideration

For information on applying for special consideration, please visit: <http://www.monash.edu/exams/changes/special-consideration>

Graduate Attributes Policy

http://www.monash.edu/__data/assets/pdf_file/0009/786969/Course-Design-Policy.pdf

Student Charter

<http://www.monash.edu/students/policies/student-charter.html>

Student Services

The University provides many different kinds of services to help you gain the most from your studies. Contact your tutor if you need advice and see the range of services available at

<http://www.monash.edu/students>.

For Malaysia 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 <http://www.monash.edu/library> or the library tab in my.monash portal for more information.

At Malaysia visit the Library and Learning Commons at <http://www.lib.monash.edu.my/>.

At South Africa visit <http://www.lib.monash.ac.za/>.

Disability Support Services

Students who have a disability, ongoing medical or mental health condition are welcome to contact Disability Support Services.

Disability Support Services also support students who are carers of a person who is aged and frail or has a disability, medical condition or mental health condition.

Disability Advisers visit all Victorian campuses on a regular basis.

- Website: monash.edu/disability
- Telephone: 03 9905 5704 to book an appointment with an Adviser, or contact the Student Advisor, Student Community Services at 03 55146018 at Malaysia
- Email: disabilitysupportservices@monash.edu
- Drop In: Level 1, Western Annexe, 21 Chancellors Walk (Campus Centre) Clayton Campus, or Student Community Services Department, Level 2, Building 2, Monash University, Malaysia Campus

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