

# BACHELOR OF SCIENCE

## Honours Computer & Information System

**OXFORD  
BROOKES  
UNIVERSITY**



### COURSEWORK SUBMISSION FORM

**Instructions**

1. Please complete the form using Capital Letters.
2. Coursework must be submitted through the Service counter and it is the responsibility of the student to complete the Coursework Submission Log Book.

<b>Name of Student:</b>			
<b>E-mail Address:</b>		<b>Contact No:</b>	
<b>Name of Lecturer:</b>	<b>Peter Lo</b>		
<b>Student ID:</b>		<b>Class Code:</b>	
<b>Subject Code:</b>	<b>U08182 – Information Systems Design</b>	<b>Assignment No.: 2</b>	<b>T1 – 2012</b>
<b>No. of pages including this cover page :</b>		<b>Other Specifications:</b>	<b>CD ____ enclosed</b>
<b>Submission Date:</b>		<b>Due Date:</b>	
<b>Declaration :</b> I declare that this assignment is my original work and that I have acknowledged any use of published or unpublished works of other people. I understand that I will be penalized for plagiarism and late submission.			<b>Signature :</b>

<b>Question</b>								<b>P</b>	<b>Total</b>
Marker									
Internal Moderator									
External Moderator									

<b>Marker's Comment:</b>

- Please submit **one hard copy and one soft copy** (CD, in one Word File)
- Assignment deadline : on or before 8pm, 17 Apr 2012
- Submission Centre : **3/F, Pacific Center, Tsim Sha Tsui**
- Late submission will not be accepted

## U08182 INFORMATION SYSTEM DESIGN

**TERM 1, 2012**

### ASSIGNMENT 2

#### TEST PLAN FOR A WEBSITE

#### 1. **BACKGROUND**

This is an individual assignment so group work is not allowed.

This coursework is designed to test your attainment of the knowledge and skills learned in this module and previous modules, in particular, the following learning outcomes.

##### 1.1. **Knowledge and Understanding**

###### **Develop Knowledge and Understanding of:**

The process of systematic application of testing methods in systems and software development
The progression from analysis to design and the implementation of a final system
Tools and techniques for systems design and implementation
Application of techniques within a systems development methodology

##### 1.2. **Disciplinary/Professional Skills**

###### **Develop Specific Skills in:**

Testing, validating and evaluating software systems' design
Specification and modelling information systems
Selection and use of appropriate techniques for design and implementation

##### 1.3. **Transferable Skill**

###### **Practise the following Transferable Skills:**

Self Management skills
Learning skills
Communication skills
Problem Solving skills
Uses of information technology

## 2. **OBJECTIVES**

The objective of the coursework is to develop a specification and a test plan of a specified software system. The software system is <http://info.singtel.com/> web site.

SingTel is Asia's leading communications group with operations and investments in more than 20 countries and territories around the world.

In addition to the major businesses, <http://info.singtel.com/> has the following facilities.

- Services
- I want to ...
- Promotions
- Self Service
- Help and Support

## 3. **DESCRIPTION OF THE TASK**

You are required to explore the software system on the website to produce a functional specification in UML to specify the system's functionality related to selling and buying and other services offered by amazon.com and then to devise a test plan based on your specification.

**Task 1:** Analysis of <http://info.singtel.com/> using UML to include Use case diagram with documented use cases, together with activity and sequence diagrams as appropriate to describe the interactions between the customer and the system.

**Hint:** The actors could include browser (non-member, member).

Since we have not been involved with the design of the website, <http://info.singtel.com/>, the actual design and implementation of the system are unknown.

Therefore, the use cases and scenarios related to <http://info.singtel.com/> authorities can be omitted in the coursework. You are only required to specify the functionality related to the browser based on the information provided by the website.

**Task 2:** Devise a test plan for a member / non-member level acceptance test of the software system and you should use scenario testing to identify the test activities.

Test plan requires the concrete scenario description of each use case and the corresponding Test data (input, output and stored data) derived from the concrete scenario.

**Hint:** Remember your objective is to define a test plan, not simply to perform actual testing or other evaluation of the web site. The screen shots of the actual website can be used to illustrate your test plan.

#### 4. **SUBMISSION, ASSESSMENT AND MARKING SCHEME**

You should submit a document that consists of the following contents.

- **Introduction (10%)** - to describe briefly the system under test and the objectives to be achieved.
- **Functional Specification (40%)** – to give a system specification in UML and a documentation of use cases and scenarios to define the user-computer interactions.
- **Test Plan (40%)** - to document the test plan that uses scenario testing.
- **Conclusion (10%)** – overall summary and discussion of how the test plan covers all functions of the specification.

This coursework is worth 20% of the marks for this module.

It is expected that the specification and test plan will require 8 to 15 (maximum) A4 pages to complete.

#### **NOTE**

Assignment submission will be checked against detection software and work found to have been plagiarized will be referred to Plagiarism Committee.

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