

**BACHELOR OF SCIENCE
Honours Computer and
Information System**



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			
Name of Student:			
E-mail Address:		Contact No:	
Name of Lecturer:	Mr. Peter Lo		
Student ID:		Class Code:	
Subject Code:	U08784 – SPM	Assignment No.:	Term 3 - 2011
No. of pages including this cover page :		Other Specifications:	CD ____ enclosed
Submission Date:		Due Date:	
Declaration : I declare that this assignment is my original work and that I have acknowledged any use of published or unpublished works of other people.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.			Signature :

Question													Total
Marker													
Internal Moderator													
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Marker's Comment:

- Please submit **one hard copy and one soft copy** (CD, in one Word File)
- Assignment deadline : on or before 8pm, 14 Dec 2011
- Submission Centre : **3/F, Pacific Center, Tsim Sha Tsui**
- Late submission will not be accepted

U08784 – Software Project Management

Coursework T3 – 2011

Assessment for this module is 100% coursework. [There will be no examination or class test but one assignment, which will be assessed in three parts]. Groupwork is to be completed with minimum three members and maximum five members.

You will be submitting three reports which include parts 1, 2 and 3 of this assignment, besides a presentation for part 2. The target audience for your reports is **your manager** at InfoTech Ltd, who will use the reports to prepare for the final *Project Proposal* of “**BOSS**” System. InfoTech Ltd is a leading software house involved in system developments for several companies in the city. You should consider yourself as an employee for InfoTech Ltd in preparing them an **honest report**.

Assignment	Description	Marks	Group / Individual	Due
Part 1	Software Cost and Timescale Estimation	25%	Group [3 - 5 students]	14 Dec 2011
Part 2a	Risk Analysis Report	15%	Group [3 - 5 students]	14 Dec 2011
Part 2b	Risk Analysis Presentation	10%	Group [3 - 5 students]	14 Dec 2011
Part 3	Project Plan, Quality Control and Recommendations	50%	Individual	14 Dec 2011

Marks are awarded for the clarity and conciseness in presenting your ideas, as well as the accuracy. You need to show the depth of your analysis and the strength of your reasoning. References are to be included, as we are interested in the depth and breadth of your research.

For this assignment, you are appointed as the Project Manager in co-ordinating the development activities of a user friendly and an interactive “**BOSS**” system to manage their day-to-day business needs and demands.

Brewery On-line Sales and Supply (BOSS) System

BOSS will provide Lion Brewery with very detailed reports of the sales of all products in each of its bars on a daily basis. It will consist of the following subsystems: -

BARS: “Bar Audit and Retail System”. This will be an automated till. Several of these units will be installed in the bar. (The precise number will depend upon the size of the premises, but it is estimated that one till will be required for every four bar-staff.) Each member of staff will log in on any one of the BARS tills when starting work, and will thereafter be able to use all of the tills. Each till will have a touch screen and a cash drawer. When making a sale, the bartender will identify him/herself to a particular BARS till, and select the type and quantity of each item ordered. The price of each item will be displayed as it is selected, and added to the list for that order. When the bartender closes the order, the total price will be shown on the screen. The bartender will enter the amount paid, and the screen will display the change due and open the cash drawer. The bartender will deposit the money, give change and close the drawer, and an itemized receipt for the customer will then be printed automatically.

CELLARS: “Control Each Local Licensee and Report Sales”. One CELLARS computer will be installed in each public house, and each BARS till will be connected to it. It will have a screen, keyboard and printer of its own, and will be located in the cellar or office. Bar staff will normally have access to CELLARS. During the day, it will receive and record details of every item sold. After the public house closes, the licensee will ‘cash up’ and check the stock. CELLARS will provide a statement of the amount of cash that should be in each BARS till. The amount actually present will be counted and checked before the money is locked in the safe. The statement will also include the amount of stock of each product line that should be on the shelves or in the barrels, and this will also be checked. Any discrepancies will be recorded on CELLARS, which will go on-line to the brewery and download a report of the entire day’s transactions.

MASTER: “Main Audit System for Takings and Expended Retainable”. The MASTER computer will be located in manager’s office at Lion Brewery. It will include a monitor screen, keyboard, printer, etc., as well as a modem through which the CELLARS in each of the Lion bars will dial it up at the end of each day. The manager will be able to view or print summary reports of business in any bar over any specified period. Any discrepancies in stock or takings will be announced automatically each morning, together with a report of each product line in each bar for which the level of stock has fallen below the recorder level, so that the manager can arrange a delivery.

Please note that the above scenario is intentionally brief, to enable you to produce a sensible draft set of requirements based on the level of understanding. In reality, more information may be needed to establish a clear set of requirements. You may make your own assumptions to make the presentation attractive.

Part 1: Software Cost and Timescale Estimation [25%]

This is to be completed as Group work

You are to take on the role of the project manager at InfoTech Ltd for developing a BOSS system. You are to prepare a series of reports for your manager at InfoTech Ltd. Each of these reports will reflect different information needed by your manager. This process reflects how project plans evolve and develop over time prior to be submitted a final proposal to the customer.

Your Task

For this assignment you should use the standard Function Point [FP] Analysis learnt from this course and explained in the recommended books and other sources.

Based on the information domain research on the similar e-commerce online system, customer requirements with valid assumptions (if any) to proceed to use Function Point Analysis technique.

Outcome

You are to submit a report that contains the following sections:

Derivation and step by step process of Function Point Estimation technique with support description and students are required to estimate the cost, effort and project time.
[10 marks]

Other support estimation methods (like LOC, COCOMO and so on) with reasonable justification and students are required to estimate the cost, effort and project time.
[10 marks]

Overall cohesion and clarity **[5 marks]**

Part 2: Risk Analysis [25 %]

This is to be completed as Group work

You are to continue your role as the project manager at InfoTech Ltd planning for the system that is to be developed by your company for the “***BOSS***” System. You have completed your Estimate of Cost, Effort and Duration and submitted this as Assignment Part 1.

Now you must reflect upon the project and your plan and consider the risks to meeting the deadlines for this project and delivering a successful system on time and within the budget and complete a Risk Analysis.

Your Task

- Complete a Risk Analysis on the project.
- Give a Presentation (to your manager) on your risk analysis.
- Support your Presentation with a Short Report.

Outcome

You are to support your presentation with a short report that contains the following:

Risk Analysis [TWO major risks]

[15 marks]

Identify **TWO** major risk(s) to achieving success on this project and outline why you chose those risks to be monitored, managed and / or eliminated.

Your report may cover the following:

Description of Risk;

Justification for the selection;

Likely impact of the risk on the project if it is not dealt with;

Risk management i.e. how you will manage it

Possible affect on costs and timescale of dealing with the risk.

Presentation [Group]

[10 marks]

Part 3: Project Plan, Quality Control and Recommendations [50%]

This is to be completed as an individual piece of work

Your Task

- To date your activities have been concerned with planning and costing the development tasks. Now you must turn your thoughts to the quality assurance for **this project**. Your manager would like to see a new task list and an updated project plan which includes and highlights the **quality assurance activities** associated with the project.
- Your boss is anxious about the project timescales as the User Requirements contains the following clause...

'The system must be live within 8 months of the start of the project. They are prepared for the costs to be increased (within reason) in order to achieve this.'

Consider how to stage the project so it can be completed within 8 months even if it does involve increasing the costs. What new risks does this introduce?

- Come to your own conclusions about how to schedule and cost this project and how to manage the risks. Use your analysis to make recommendations to your manager.

Outcome

You are to hand in to be assessed a report that contains the following sections:

- **The quality control tasks for this project** [15 marks]

List the deliverables from each software development activity undertaken by InfoTech Ltd (or subcontracted by InfoTech Ltd). Describe the quality control task or activities for each deliverable.

- **Strategies for reducing timescales for this project** [15 marks]

Describe your suggestion for how the project could be staged to meet the customer's deadline of completing the project within 8 months (36 weeks) supported with a risk assessment.

- **Your Recommendations and Conclusions** [15 marks]

Come to your own conclusions and recommendations for this project. Outline your recommendations and justify them.

Overall cohesion and clarity [5 marks]

Note:

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