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| Whitireia Logo_2010 | **Faculty of Business and Information Technology** |

**Certificate in Information Technology**

**IT5x83 Fundamentals of**

**Software Design and Development**

**Assignment Two**

**Systems Requirements and Build**

Due Friday 17th October 2016

### Course Information

**Title:** IT5x83 Fundamentals of Software Design and Development

Grade Weight: 40%

Assignment Marks: 100

Towards Final Grade: 40%

### Learning outcomes

On completion of the paper, the student will be able to:

1. Describe how the concepts of systems theory relate to business systems and computer systems.
2. Describe the objectives, people involved, tasks and deliverables of each stage in the systems development life cycle.
3. Apply a variety of logic depiction methods to appropriate simple tasks.
4. Implement depicted tasks in a programming language.

### Assignment Two

Systems Requirements and Build

### Assignment Due Date

The due date for this assignment is Friday 17th of October at 5.00pm.

### Assignment Overview

This assignment continues from assignment one the “**preliminary investigation”** into a website for the Dream Getaways resort. Now the student will move into the **design** and **build** phase of the project by initially, creating a Systems Requirements proposal for sign-off by your tutor and then, building the actual website in accordance with the scope and design specifications outlined in your proposal.

### Deliverables: Part A – Systems Requirements Proposal

A Systems Requirements Document for a website that fits the following specification: You have been asked to continue planning the website you proposed in Assignment 1 – the Preliminary Investigation Report. This assignment focuses on developing the requirements for the website. Your requirement document should include:

1. An executive summary which summarises the content of the document appropriately (5 marks).
2. An introduction which presents an overview of the purpose of the document and its contents (10 marks).
3. A discussion of the design methodology for the website build. Consider three different software design methodologies JAD, RAD and Agile methodology. Briefly discuss the advantages and disadvantages of each as they might relate to the design of a website (10 marks).
4. A discussion of the development strategy. Consider whether to build this website in‐house or to outsource the website. You can choose to argue for a strategy different from building it yourself if you wish, but you must justify the argument (10 marks).
5. A site map for the proposed website (5 marks).
6. A set of wireframes for each page of the website (15 marks)
7. A systems requirements checklist with items listed as outputs, inputs, processes, performance and controls (15 marks).
8. In the future, it is planned that customers will be able to register on the website, and registered customers will be able to purchase items. Draw a use case diagram for this situation (remember to consider who the actors are, and the actions each actor takes). Draw this using Visual Paradigm (15 marks).
9. A conclusion that clearly summarises the requirements for the website development (10 marks).
10. Presentation will also be marked, all parts of the assignment should be well presented and the contents page should be accurate, the project should also have an appropriate title page (5 marks).

Marking Criteria Assignment Two A

1T5x83 Fundamentals of Software Development

**Marking Guide**

**Name/ID No**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| Item | Criteria | AvailMark | Mark |
| 1 | An executive summary which summarises the content of the document appropriately | 5 |  |
| 2 | An introduction which presents an overview of the purpose of the document and its contents | 10 |  |
| 3 | A discussion of the design methodology for the website build. Consider three different software design methodologies JAD, RAD and Agile methodology. Briefly discuss the advantages and disadvantages of each as they might relate to the design of a website | 10 |  |
| 4 | A discussion of the development strategy. Consider whether to build this website in‐house or to outsource the website. You can choose to argue for a strategy different from building it yourself if you wish, but you must justify the argument. | 10 |  |
| 5 | A site map for the proposed website | 5 |  |
| 6 | A set of wireframes for each page of the website | 15 |  |
| 7 | A systems requirements checklist with items listed as outputs, inputs, processes, performance and controls. | 15 |  |
| 8 | In the future, it is planned that customers will be able to register on the website, and registered customers will be able to purchase items. Draw a use case diagram for this situation (remember to consider who the actors are, and the actions each actor takes). Draw this using Visual Paradigm. | 15 |  |
| 9 | A conclusion that clearly summarises the requirements for the website development. | 10 |  |
| 10 | Presentation will also be marked, all parts of the assignment should be well presented and the contents page should be accurate, the project should also have an appropriate title page | 5 |  |
|  | **Total Marks** | 100 |  |

### Deliverables: Part B – Construction of Website

Construction of the Dream Getaways website. All content on your website must be appropriate and “safe for work”. No inappropriate language or images should be used. All images used must be either open license or referenced within all documentation. The site map and wireframes can either be hand drawn or made on the computer. Any input masks or validations should be included in your wireframes. Any hand drawn diagrams will need to be scanned, and included in the assignment documentation. Each part of your document should be numbered according to the question being addressed. You should not exceed 12 pages with this assignment.

Your CEO has discussed the requirements for the website, and you have determined the following requirements:

1. Each page must have the following:

a. The company name (logo) centred at the top of the page.

b. A navigation bar that provides links to the additional pages.

c. Some images that relate to the page.

d. Ensure the website’s look and feel is consistent (for all pages).

2. The Home Page:

a. A general overview about the company and site that is not found on the About Us page.

b. Featured items e.g. new items in the store.

c. Some contact details/shop hours.

3. The Products Page:

a. At least 5 products shown.

b. A picture for each product.

c. A description about each product. Note: You may not design the products and the descriptions to all be included in one static image.

4. The Contact Us Page:

a. Details on the different ways the company can be contacted.

b. An Email enquiry form that uses JavaScript.

c. A Map where the store is located.

5. An About Us Page:

a. General details about the company.

b. An address for the company. Page 5 of 5

c. Shop hours.

6. Extra Page:

a. You may also include the extra page you proposed in the preliminary investigation report if it has been approved by your CEO.