

2018 DSE ICT SBA

Online Book Store

Joyful bookstore wants to set up a website for selling books over the Internet. The following screen layout has been designed for customers to place order. Customers click the book cover to view more details of the book. Customers can enter the quantity needed in textbox and then click “Check Out” to finish the order. Or they can save the selections in the shopping cart and continue surfing.

The screenshot shows a web browser window titled "Joyful Bookstore" with the address bar displaying "http://joyful.com". The website header features the "Joyful Bookstore" logo and a shopping cart icon. Below the header is a placeholder for a "Multimedia banner for promotion". The main content area displays four book covers, each labeled "Book 1", "Book 2", "Book 3", and "Book 4". Under each book cover is a "Quantity:" label followed by a text input field containing the text "Qty". A blue link "Scroll down for more" is positioned below the book listings. At the bottom of the page are three buttons: "Save selections", "Check Out", and "Clear".

Task 1 (Design & Implementation)

Create a **prototype** of the online book store. The above page should be included in the prototype. You may make minor changes to the above design in order to enhance the friendliness of web page. Other pages (2-3 pages) should be added to demonstrate service of online book store.

You may consider some of the following key factors when designing the prototype:

- web site structure
- audience awareness and friendliness
- sitemap
- the use of multimedia elements
- hardware, platform, language and colour compatibility
- web accessibility

Create a presentation and/or documents to briefly describe the components involved in designing the prototype.

Task 2 (Testing & Evaluation)

Referring to the prototype of the web site, complete the following tasks.

Conduct a test of the prototype. Collect and record the feedback and results of the test.

- Either (i) make one major change in the web page design and illustrate the corresponding improvement,
or (ii) describe how the scope of the prototype could be extended.

Create a presentation and/or documents to illustrate the web site. You may consider some of the following items:

- pros and cons of the web site design
- how the editing of the multimedia elements compromises the environmental factors of the web site (e.g. different resolution of screen, different network speed)
- how the prototype addresses the key factors of a good web site
- how the evaluation helps to improve the web site

Project Timeline

Due Dates	Tasks
24/4/2017 (Day 3)	Task 1: Website
16/5/2017 (Day 5)	Task 1: Presentation / document
Sep/2017	Task 2: Testing and Evaluation

Assessment Criteria

The guided tasks (0 – 40 marks) will be marked using the following assessment criteria.

Task 1 Design and Implementation

Describing the design of the solution for the selected problems. Demonstrating results and providing evidence of the implementation process.

Performance	Description
High (17 – 25 marks)	<ul style="list-style-type: none">• Creates an innovative design for the solution• Demonstrates effective ICT skills in the appropriate use of resources• Demonstrates appropriate ICT skills coherently• Demonstrates effective and comprehensive data/information collection, capture and input• Demonstrates effective and comprehensive data/information verification and validation• Demonstrates effective, efficient and comprehensive data/information processing• Creates an appropriate output format of the deliverables that can easily be tested as a solution to the problem
Middle (9 – 16 Marks)	<ul style="list-style-type: none">• Provides some new ideas in designing the solution• Demonstrates ICT skills in the use of resources with understanding• Demonstrates appropriate ICT skills adequately• Demonstrates reasonable data/information collection, capture and input• Demonstrates reasonable data/information verification and validation• Demonstrates reasonably good quality of data/information processing• Creates an output format of the deliverables that can be tested as a solution to the problem
Low (0 – 8 Marks)	<ul style="list-style-type: none">• Produces a plain design of the solution• Uses resources with relevant ICT skills• Demonstrates appropriate ICT skills occasionally• Demonstrates an awareness of the necessary data/information collection, capture and input• Demonstrates an awareness of the necessary data/information verification and validation• Carry out data/information processing relevant to the problem• Creates an output format of the deliverables that can be partially tested as a solution to the problem

Task 2 Testing and Evaluation

Testing and evaluating the deliverables.

Performance	Description
High (11 –15 Marks)	<ul style="list-style-type: none">• Records test results comprehensively according to the testing plan with quality metrics• Demonstrates a comprehensive methodology in testing and evaluation• Suggests and explain improvement made as a result of testing• Conducts corrective/preventive actions logically• Evaluates the effectiveness of the deliverables relative to the environmental factors• Presents the findings using a systematic style and appropriate terminology• Organises and present the objectives and original thought effectively• Reflect the student' s learning process effectively
Middle (6 –10 Marks)	<ul style="list-style-type: none">• Records test results generally according to the testing plan• Demonstrates a general methodology in testing and evaluation• Suggests some practical improvement• Conducts some corrective/preventive actions appropriately• Evaluates the effectiveness of the deliverables relative to the partial environmental factors• Presents the findings with a comprehensible and sensible style• Expresses ideas and visions successfully• Reflects the student's learning process
Low (0 – 5 Marks)	<ul style="list-style-type: none">• Records some test results• Demonstrates a basic methodology in testing and evaluation• Attempts to improve the deliverables• Attempts to evaluate the effectiveness of the deliverables• Presents the findings with text and illustration

Suggested Items in Task 1 Report

- Website layout
- Screen capture of each web page
- Brief description on the components on each page
- Extra features implemented