

BIT216 - Assignment 3

Release date:	10 January 2022
Due date:	28 March 2022 by 11.59pm
Output:	Design and Testing Document Prototype 2
Value:	15%
Late Penalty:	5 marks per working day

Expected Learning Outcomes Assessed

- CLO1: Develop a prototype by applying software engineering principles and tools available to the software developer (C6, PLO6, MQF3d)
 - CLO2: Apply techniques to manage software project timelines (C5, PLO1, MQF1)
 - CLO3: Demonstrate effective communication skills to make design and development decisions through written and oral demonstration (C3, PLO5, MQF3c)
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Rationale

This task was designed to give students the opportunity to continue coding and testing the system from Assignment 2.

Task 1: Design Specification (Individual)

Include any update(s) made in the design specification document (in Assignment 2 e.g. wireframes, data dictionary etc) and from the requirements documents you created in Assignment 1 (i.e. SSD, contracts, ERD etc)

Task 2: Coding and Testing (Individual)

This task has been designed to develop students' ability to go on to the second iteration. Students are required to continue coding and conduct testing. You are encouraged to apply a testing tool such Selenium. A test analysis report will summarise your test cases.

You will also need to provide generic screen shots of all your use cases.

Task 3: Review (Individual)

Each team member required to answer the following questions:

- Did the group meet the objectives defined in Assignment 1?
- What went wrong and what went right?
- What you would have done differently?

Task 3: Attach a clear screen shot of Gantt Chart Gantt Chart and compare with the baseline (identified in Assignment 1 or 2) to reflect on the work completed (timelines of milestones/deliverables and resource management)

Presentation and Collaboration

At the end of assignment 3, prepare 5-10 minutes presentation of your system. In this task you are also required to show evidence of how you have collaborated your coding (Github) with your team member.

General Marking criteria and Submission Requirements

- All documentation must be word processed using Times New Roman font size 12 with 1.5 spacing.
- Your report should consist of the following:
 1. Assignment Cover Sheet
 2. Design and Testing Documentation (*Reminder: Ensure proper referencing have been included in your reports*)
- A Final Compiled report to be submitted to LMS Turnitin: Turnitin Online Submission - Assignment 3 Resubmission is **NOT** permitted.
- Submit the Application for Late Assignment Submission together with the *Assignment Cover Sheet* if there is a need for an extension in the submission. A penalty of 5 marks will be imposed per working day if
 - late submission form is not included.
 - reason for extension is not given.
 - extension is not granted.

- You are expected to adhere to the [Academic Integrity Policy](#). All referencing and citation should use APA Style (7th Edition preferred).
- You do not need to submit the similarity report. Turnitin similarity reports will be generated by the lecturer and penalties will be imposed for similarity **exceeding 15%**. You may be subject to additional penalties according to the Academic Integrity Policy.

The following criteria will be used to assess this task:

1. Follow up from Assignment 1 and 2

- Updates on the analysis/design documentation
- Problems faced in Iteration 1 and the solutions

2. Iteration 2 (Individual with the exception for Integration and System Testing)

- Identification of the remaining use cases to be developed by each
- Algorithm/Identification of plug-ins (optional)
- Screen Shots (samples for each case for Iteration 1 and 2)
- Test Objectives
- Test Plan, Method & Tools
- Test Cases: Unit Testing (Individual), Integration Testing (Group work), System Testing (Group Work)
- Test Analysis Report
- Review (answering the following questions)
 1. Did the group meet the objectives defined in Assignment 1?
 2. What went wrong and what went right?
 3. What you would have done differently?
- Gantt Chart Gantt Chart– compare with the baseline (identified in Assignment 1 or 2) to reflect on the work completed (timelines of milestones/deliverables and resource management) Justify your current timelines as opposed to the planned gantt chart.

3. Presentation

You will be required to present your

- a) Title of the project + Team Members
- b) Demonstration of Prototype 2 should have the following:
 - Use Cases in Iteration 2
 - Use Cases in Iteration 1 (if there are updates – focus on the updates)
 - Gantt Chart/GitHub

Note: Refer to Appendix A: Marking scheme for mark allocations.

Student ID 1 :

Student ID 2 :

A. Follow-up (CLO1)

LO	Assessment Area	Poor	Satisfactory	Good	Excellent	Marks	
CLO1	Identification of Problems and Solutions [4]						
	Analysis/Design Updates [5] - Wireframes - ERD/DD - etc						
	Screen Shots [5]					Student 1	Student 2
Sub-total (/14 marks)							

B. Tests Document (individual)

LO	Assessment Area	Poor	Satisfactory	Good	Excellent	Marks	
						Student 1	Student 1
CLO1	Test objectives [3]					Student 1	Student 1
	[2] <ul style="list-style-type: none"> Test Plan (includes) <ul style="list-style-type: none"> Tests methods specification evaluation Schedule 						
	Testing – Using Selenium <ul style="list-style-type: none"> Unit Testing [4] 						
	<ul style="list-style-type: none"> Integration Testing [3] 						
	<ul style="list-style-type: none"> System (func and nonfunc) [5] <i>Side File to be included for func testing</i>						
	Tests analysis report [4]						
	Conclusion/Review [5]						
Sub-total (/26 marks)							

C. Documentation, Presentation and Collaboration

LO	Assessment Area	Poor	Satisfactory	Good	Excellent	Marks	
CLO3	Documentation (Design and Testing) [5] <ul style="list-style-type: none"> Format Consistency/Spelling/Grammar Professionalism 						
CLO2	Project Management [5] <ul style="list-style-type: none"> Gantt Chart 					Student 1	Student 2
CLO3	Presentation[10]						
Sub-total (/20 marks)							

D. Collaboration and System Implementation

LO	Assessment Area	Poor	Satisfactory	Good	Excellent	Marks	
CLO1	Application operation success rate [15] <ul style="list-style-type: none"> System functional/partially functional /not working Adequacy of the levels of complexity of the design Validations in place 					Student 1	Student 2
	Quality of software produced:[15] <ul style="list-style-type: none"> fulfilment of requirements/objectives usability (UX and ease of use) creativity/originality 						
	Collaboration via Git[10] <ul style="list-style-type: none"> push/pull/branch/merge/issue (evidence of collaboration) – not uploads 						
Sub-total (/40 marks)							

		Student 1	Student 2
Academic Integrity Penalty	(As per Academic Integrity Policy)		
Late Submission	5 marks per day (____ days)	(-)	
	TOTAL		

Comments:

Feedback

A. Follow up

Analysis / System design:

<input type="checkbox"/>	Analysis & Design	not clearly defined / not updated
<input type="checkbox"/>	Problems/Solutions	not found
<input type="checkbox"/>	Screen Shots	not consistent with the design/not found

B. Tests Document

<input type="checkbox"/>	Tests objectives	not clearly defined / insufficient / lacking in proper labelling
<input type="checkbox"/>	Test methods, specs.	not clearly defined / insufficient / not found/No automated tools used
<input type="checkbox"/>	Tests results	not clearly defined / insufficient / not found
<input type="checkbox"/>	Tests analysis report	not clearly defined / insufficient / not found
<input type="checkbox"/>	Review	no reflection on objectives / not found

C. Documentation

<input type="checkbox"/>	Format	table of contents not found/inconsistent font size/no proper headings
<input type="checkbox"/>	Spelling/Grammer	spelling mistakes/sentences are not comprehensible/sentences too long
<input type="checkbox"/>	Gantt Chart	not updated

D. System and Collaboration

<input type="checkbox"/>	Prototype	did not meet functional req/did not meet non functional req/not working/ Poor design of screen layouts/poor interaction or navigation/difficult to use
<input type="checkbox"/>	Use of GIT	no evidence of use/minimum use

RUBRIC FOR ORAL PRESENTATION - PROTOTYPE II

Category	Exemplary (5 Points)	Advanced (4 points)	Proficient (3)	Developing (2 points)	Not evident (1 point)
Layout Does your website have An attractive and usable layout? Is it well organized?	<ul style="list-style-type: none"> The website has an exceptionally attractive and usable layout. It is easy to locate important elements. 	<ul style="list-style-type: none"> The website has an attractive and usable layout. It is easy to locate important elements. 	<ul style="list-style-type: none"> The website a usable layout but boring. It is easy to locate important elements. 	<ul style="list-style-type: none"> The website has a cluttered or confusing layout. It is difficult to locate important elements. 	<ul style="list-style-type: none"> The website has an unusable layout. It is difficult to locate important elements.
Navigation Is your website easy to navigate forward and backwards with working links?	<ul style="list-style-type: none"> Links are clearly labelled, consistently placed, and allow the reader to easily move from page to page 	<ul style="list-style-type: none"> Links are labelled, and allow the reader to easily move from page to page 	<ul style="list-style-type: none"> Links allow the reader to move from page to page but some links seems to be missing. 	<ul style="list-style-type: none"> Links are labelled but are broken 	<ul style="list-style-type: none"> Missing links
Theme and Consistency and Creativity Does the prototype have a consistent font, colour and style theme?	<ul style="list-style-type: none"> Website uses a consistent colour scheme throughout the website. Pages are all related Ideas are creative and innovative 	<ul style="list-style-type: none"> Website has a colour scheme. Less than 3 fonts are used Graphic elements enhance and support presentation of the content 	<ul style="list-style-type: none"> Website has a colour scheme but not all pages are the same. Less than 3 fonts are used Good use of graphics/design elements 	<ul style="list-style-type: none"> Website has randomly chosen elements throughout. More than 3 fonts are used. Minimal use of design elements, lots of text 	<ul style="list-style-type: none"> Website has no colour scheme Pages are unrelated More than 3 fonts are used. Use of elements does not support the content of the website
Functionality Does the prototype meet user requirements?	<ul style="list-style-type: none"> All functionalities are in place and are working 	<ul style="list-style-type: none"> All functionalities in place but with minor errors 	<ul style="list-style-type: none"> Partial functionalities are working 	<ul style="list-style-type: none"> Only 1 functionality is working 	<ul style="list-style-type: none"> None of the functionalities are working