

BIT210 Assignment 2

Release date:	September 6, 2017
Due date:	November 6, 2017
Value:	25% of total assessment
Marks:	Marked out of 100
Assessment Mode :	Pair assessment

A. Rationale

This assignment is a continuation from Assignment 1 where it has been designed to allow students to test and demonstrate their understanding and ability to implement and connect client-side scripting (JavaScript) to server side scripting specifically PHP, MySQL and web server to develop a web application.

On completion of this assignment, the student will be able to:

- CLO 2: Design and develop an interactive web site(s) with regard to issues of usability, accessibility and internationalisation.
- CLO 3: Design and develop a client-server internet application that accommodates specific requirements and constraints
- CLO 4: Organize in groups to analyse and present requirements and constraints for the design of client-server internet applications.

B. Assessment Requirements:

- i. Produce a complete workable web based solution which include server side scripting and database connectivity. You should continue from the front-end product of your Assignment 1.
- ii. You are not allowed to use any content management system such as Joomla, Drupal and WordPress for this assignment.
- iii. You should use Atom editor. Student is required to submit the complete web development project which consists of the following documents in a CD/DVD:
 - .php document
 - .css document
 - .sql document
 - .html document
 - Microsoft word document for report.
 - Any other related documents
- iv. Your completed web pages should be demonstrated to your lecturer in a presentation on Week 12 and be prepared to give detail descriptions of your project.

C. Questions

You are expected to continue the responsive web page which you have developed in Assignment 1. Develop ALL of the functionalities distributed among your group members to your web pages based on the use cases. All the six use cases must be implemented using server-side scripting (PHP) connecting to the local server (XAMPP) and databases (MySQL). Produce a functional web application in which the users can register and use all of the functionalities stated in case study given in Assignment 1.

Task 1 (70 marks) – Individual Assessment

Develop the functionalities of the web application based on the use cases given in Assignment 1. Each student is responsible for the use cases chosen in Assignment 1 and will be graded individually based on the marking scheme given.

Task 2

Produce a project **report** (8 – 10 pages). Your report **MUST** include the following points:

PART A (15 marks) - Pair Assessment

- i. Web project title.
- ii. Table content of the report.
- iii. Manual guide of web setting/server configuration/installation/database configuration.
- iv. Screenshots of web pages that you developed based on case study given.
- v. For each main element in the web pages, include the web coding which corresponds to it.
- vi. Describe on the structure and properties of your database.
- vii. Description of the web technologies used (such as PHP, MySQL or web services) and justify your choice.
- viii. List out two advantages of using server side scripting.
- ix. List out all references that is used in APA format.

PART B (5 marks) – Individual assessment

Reflective writing gives you an opportunity to gain self-knowledge as well as to state explicitly what you understand and what you do not understand. It is a way of thinking to explore your learning. Each student should produce a reflective writing in about 500 words to:

- i. Reflect on your opinions and learning experiences in this Web Programming course.
- ii. Reflect on your experiences and opinions in completing this assignment.

TASK 3: Presentation (10 marks) – Individual assessment

A presentation to demonstrate your complete web page is required. During your presentation, you should demonstrate on the functionality of your web page according to the requirements stated in both Assignment 1 and 2. Each student is responsible for his/her use cases. The presentation will be on one of the tutorial or lecture session. Student is assessed individually

for this section in terms of understanding on how the web pages were developed. Student must be present for this presentation, otherwise no marks will be awarded for this section.

D. Feedback Opportunities

You will frequently be given informal verbal or written feedback regarding your performance on tasks relating to the coursework assessment during the lecture and/or tutorial sessions. Attendance is therefore important for your development and thus coursework success.

E. Items to be submitted

- A soft copy of the whole source codes
- A printed report with marking criteria
- Turnitin report
 - class id: 16008371
 - enrollment password: bit2102017

F. Please note:

1. Where appropriate assignment should be prepared using a word-processing package with 12-point font, single spacing and page numbering.
2. Please ensure that your work has been proof read for spelling and for grammatical construction.
3. If you are not clear about the assignment requirements please contact the lecturer in charge of the subject.
4. Keep a copy of each assignment you submit.
5. You must not copy material from another student. The minimum penalty which will be imposed in such cases is to give both students zero for the assignment.
6. You may refer material from textbooks or references but you must acknowledge the quotation, no matter how brief. Failure to do so will result in zero marks being awarded for the assignment.
7. There is no need to include the assignment question in your submitted work.
8. It is recommended that your student number be included in the header or footer of every page.
9. All assignments should be accompanied by a completed assignment cover sheet and submit to the IT Department Administration office. You must sign the submission list during your submission.
10. Please print out the assignment cover sheet and mark sheet provided at the end of this document for submission with your assignment.
11. A penalty of 5 marks per working day deduction from the marks obtained for this assignment will be imposed for late submission.

CLO assessed	Topic			Marks Awarded
CLO2: Design and develop an interactive web site(s) with regard to issues of usability, accessibility and internationalization.	Overall functionalities of the finished product (15 marks)			
	Level C – Minimal functionalities included in web pages. (0-5)	Level B – Most of the functionalities included and working appropriately as written in proposal. (6-10)	Level A – Include all of the functionalities stated in proposal as well as enhance functionalities stated in Task 1. (11-15)	
CLO 3: Design and develop a client-server internet application that accommodates specific requirements and constraints	Appropriate use of JavaScript (10 marks) - Individual			
	Level C - Minimal and inappropriate usage of JavaScript (0-3)	Level B – JavaScript is used to develop dynamic web pages and client-side verifications. (4-7)	Level A – As level B but more advanced JavaScript functionalities and elements. Appropriate comments on section of codes. (8-10)	
CLO 3: Design and develop a client-server internet application that accommodates specific requirements and constraints	Appropriate use of server-side scripting PHP (30 marks) - Individual			
	Level C– Minimal and inappropriate usage of PHP features. Lack of server-side implementation (0-9)	Level B – PHP are incorporated properly with most of the server-side functionalities implemented for storing and retrieving information from database. (10-19)	Level A – As level B and complete usage of PHP to produce client-server application for all relevant functionalities in the webpages. Appropriate comments on section of codes. (20-30)	

CLO 3: Design and develop a client-server internet application that accommodates specific requirements and constraints	Database (MySQL) and Web service (XAMPP) (15 Marks)			
	Level C – Minimal and inappropriate usage of database to store some information input from user through forms. Local host is not functioning (0-3)	Level B – Include simple database table to store all of the information input from user. Local host is used. (4-6)	Level A – As level B with additional database tables to store and retrieve information using PHP. Local host is used. (7-10)	
CLO 4: Organize in groups to analyse and present requirements and constraints for the design of client-server internet applications.	Report (15 marks)			
	Level C – Proper formatting of report with title, table of content and manual guide of web settings for the project. (0-5)	Level B – As level C with screenshot of websites and its corresponding coding. (6-10)	Level A – Report covers all the details with discussion on challenges faced and reflection on web technologies implementation in the project. Proper APA citation and referencing. (11-15)	
CLO 4: Organize in groups to analyse and present requirements and constraints for the design of client-server internet applications.	Reflective writing (5 marks) - Individual			
	Level C – Demonstrate little or no understanding of the writing and subject matter. (0-2)	Level B – Demonstrate a thoughtful understanding of the writing and the subject matter. (3-4)	Level A - Demonstrate a conscious and thorough understanding of the writing prompt and the subject matter. (5)	

CLO 4: Organize in groups to analyse and present requirements and constraints for the design of client-server internet applications.	Presentation (10 marks) - Individual			
	Level C – Minimal grasp of information on web development. Unable to answer questions about subject. (0-3)	Level B – Presentation is smooth with ease to produce expected answers to all questions, but fails to elaborate. (4-6)	Level C – Demonstrate full knowledge on the developed web pages by answering all the questions with explanations and elaborations. (7-10)	
	Total			
	Late Submission Penalty (-5 marks per day)			
	Submission without Turnitin report (-10 marks)			
	Submission without Source Code (-10 marks)			
	TOTAL MARKS OUT OF 100			