

School of Design and Informatics

Assessment Instrument Coversheet

Module Code: CMP204

Module Title: Dynamic Web Development 1

Unit of Assessment: Unit 2 (60%)

Learning Outcomes: 1, 2, 3, 4

Lecturer: Dr Lynsay Shepherd

Submission Date: 15th December 2020

Feedback Return Date: 15 working days

Feedback Type: Feedback via My Learning Space

Grading Criteria: Refer to final page of this document

CMP204 Dynamic Web Development 1

Unit 2- Portfolio (Server-Side Application)

Task

The coursework for this module involves the development of a dynamic web application. You should build your application week-by-week, adding in new skills you have learned. The full details of the assessment are outlined in this document.

You must **not** use WordPress or any other content management system when developing your coursework web application.

1. Web Application – Server-Side (60%)

You will need to develop a server-side web application. The web application must be based around **a musical band or solo artist**. The requirements for the submission are outlined in the sections below.

This must be different to the web application submitted for unit 1.

General requirements

The web application must look professional, and possess the following characteristics:

- An attractive layout, suitable colour scheme, and a good use of images
- Good contrast between the background and text
- Clear functionality from the perspective of the user

Specific requirements

The web application should be dynamic with the following technical requirements:

- A clear use of HTML5
- Use of the Bootstrap framework providing a responsive layout
- Use of AJAX (pure JavaScript i.e. without the use of a library)
- Use of the jQuery AJAX function
- User login functionality (PHP/MySQL)
- Ability to select, add, edit and delete information from a database (PHP/MySQL)

- Appropriate consideration of relevant laws e.g. the "Cookie Law" and GDPR
- Security measures
 - o SQL queries should be written as prepared statements
 - o Passwords should be salted and hashed
 - Validation of user input

These requirements need to be addressed individually - you cannot implement one feature and expect it to count for multiple items on this checklist. To give an example, you will need separate features for meeting the requirement of using pure JavaScript AJAX and using the jQuery AJAX function.

You should include a requirements page in your application (named req.html – a template has been provided). For each of the requirements provide a sentence or two, explaining how you implemented the requirement. Please also indicate the names of the files, and line numbers where you have implemented the requirement e.g. fileOne.html, otherFile.js, etc.

Additional information

If you are using images in your application which belong to others, place a comment in your HTML page stating the URL of the original image location

Submission details

Your coursework should be submitted via the coursework submission link on My Learning Space before the deadline, as indicated on the first page. Feedback will be provided by the Module Leader by the date listed on the front cover.

There is one upload area for the coursework on My Learning Space:

• Submit one single zipped folder containing all files pertaining to the web application developed. **Submit a .zip file**.

You should also host your project files on the Mayar server as follows:

mayar.abertay.ac.uk/~studentnumber/cmp204/coursework2/

The main page of your web application should be placed in the following location:

mayar.abertay.ac.uk/~studentnumber/cmp204/coursework2/index.php

The requirements page of your web application should be placed in the following location:

• mayar.abertay.ac.uk/~studentnumber/cmp204/coursework2/req.html

Marks will be deducted if the files have not been placed in the correct location, as the marker will be unable to fully access the application.

You must provide the user login details for the application with your MLS submission.

Marking Scheme

Marked in accordance with university regulations. See the following rubric for the marking scheme.

Requirement		Grade							
	A+/A	B+/B	C+/C	D+/D	MF	F			
HTML, CSS, JavaScript has been contained within separate files	Excellent- code has been placed into separate files.	Very good- code has mostly been placed into separate files.	Good- some flaws or omissions with placing code into separate files.	Satisfactory- significant issues with placing code into separate files	Unsatisfactory- code contains several errors and has not been placed into separate files.	Code missing.			
A clear use of HTML5	Excellent- HTML5 has been used throughout the application to good effect.	Very good- HTML5 has been used on most of the pages within the web application.	Good- HTML5 has been used on most of the pages within the web application with some flaws or omissions.	Satisfactory- HTML5 has been used on most of the pages within the web application with significant flaws or omissions.	Unsatisfactory- HTML code has been used but it does not follow HTML5 standards.	No HTML code submitted.			
Use of the Bootstrap framework providing a responsive layout	Excellent- Bootstrap has been used throughout the application to provide a responsive layout.	Very good- Bootstrap has been used on most pages of the application to provide a responsive layout.	Good- Bootstrap has been used on most pages of the application to provide a responsive layout, with some flaws or omissions.	Satisfactory- Bootstrap has been used on most pages of the application to provide a responsive layout, with significant flaws or omissions.	Unsatisfactory- Limited use of Bootstrap.	Bootstrap has not been used.			
Use of AJAX (pure JavaScript i.e. without the use of a library)	Excellent- pure AJAX used very effectively within the application.	Very good- pure AJAX used effectively within the application.	Good- pure AJAX used within the application with some flaws or omissions.	Satisfactory- pure AJAX used within the application with significant flaws or omissions.	Unsatisfactory- Limited use of pure AJAX.	Pure AJAX has not been used.			
Use of the jQuery AJAX function	Excellent- jQuery AJAX used very effectively within the application.	Very good- jQuery AJAX used effectively within the application.	Good- jQuery AJAX used within the application with some flaws or omissions.	Satisfactory- jQuery AJAX used within the application with significant flaws or omissions.	Unsatisfactory- Limited use of jQuery AJAX.	jQuery AJAX has not been used.			
User login functionality (PHP/MySQL)	Excellent- well designed and effective user login functionality.	Very good- effective user login functionality.	Good- working user login functionality with some flaws or omissions.	Satisfactory working user login functionality with significant flaws or omissions.	Unsatisfactory- Limited attempt at writing a user login.	User login not implemented.			
Ability to select, add, edit and delete information from a database (PHP/MySQL)	Excellent- very effective application making use of queries for selecting, inserting, editing, and deleting information from a database.	Very good- effective application making use of queries for selecting, inserting, editing, and deleting information from a database.	Good- application makes use of use of queries for selecting, inserting, editing, and deleting information from a database with some flaws or omissions.	Satisfactory- application makes use of use of queries for selecting, inserting, editing, and deleting information from a database with significant flaws or omissions.	Unsatisfactory- Limited attempt at writing queries to select, add, edit and delete information from a database.	Cannot select, add, edit and delete information from a database.			

Appropriate	Excellent- Relevant laws	Very good- Relevant laws	Good- Relevant laws are	Satisfactory- Relevant laws	Unsatisfactory- Limited	Laws have not been
consideration of relevant	are considered in great	are considered in detail.	considered with some flaws	are considered with	consideration of relevant	considered.
laws	detail.		or omissions.	significant flaws or	laws.	
				omissions.		
SQL queries should be	Excellent- very effective	Very good- effective use of	Good- use of prepared	Satisfactory- use of	Unsatisfactory- Limited	SQL queries are not written
written as prepared	use of prepared statements	prepared statements	statements with some flaws	prepared statements with	attempt at using prepared	as prepared statements.
statements	throughout the application.	throughout the application.	or omissions.	significant flaws or	statements.	
				omissions.		
Passwords should be	Excellent- very effective	Very good- effective use of	Good- use of password	Satisfactory- use of	Unsatisfactory- Limited	Passwords are not salted
salted and hashed	use of password salting	password salting and	salting and hashing with	password salting and	attempt at password salting	or hashed. Passwords are
	and hashing.	hashing.	some flaws or omissions.	hashing with significant	and hashing.	stored as plaintext or MD5.
				flaws or omissions.		
Validation of user input	Excellent- input validation	Very good- input validation	Good- input validation has	Satisfactory- input	Unsatisfactory- Limited use	User input has not been
	has been used very	has been used effectively	been used in the	validation has been used in	of user validation in the	validated.
	effectively in the	in the application.	application, with some	the application, with	application.	
	application.		flaws or omissions.	significant flaws or		
				omissions.		
req.html contents have	Excellent- Req.html	Very good- Req.html	Good- Req.html contents	Satisfactory- Req.html	Unsatisfactory- req.html is	req.html has not been
been completed	contents have been	contents have been	have been completed with	contents have been	largely incomplete.	completed.
	completed in great detail.	completed in detail.	some flaws or omissions.	completed with significant		
				flaws or omissions.		
Web application is	Web application is	N/A	N/A	N/A	N/A	Web application is
available on Mayar at the	available at requested					unavailable at requested
requested location	location on Mayar.					location on Mayar.
Overall web application	A+: all requirements are at	B+: most requirements are	C+: most requirements are	D+: most requirements are	MF- most requirements are	F: Limited evidence
	grade A, with exceptional	at grade B, with 1-2 in the	at grade C, with 1-2 in the	at grade D, with 1-2 in the	at grade MF.	learning outcomes have
	effort made in some areas.	A+/A range.	B+/B range.	C+/C range.		been achieved.
	A: the majority of	B: the majority of	C: the majority of	D- the majority of		
	requirements are at grade					
	A, with the others being in	B, with the others being in	C, with the others being in	D, with 1-2 MFs.		
	the B+/B range.	the C+/C range.	the D+/D range.			