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| **School of Design and Informatics**    **Assessment Instrument Coversheet** | |
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| Module Code: | CMP204 |
| Module Title: | Dynamic Web Development 1 |
| Unit of Assessment: | Unit 1 (100%) |
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| Learning Outcomes: | 1, 2, 3, 4 |
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| Lecturer: | Dr Lynsay Shepherd |
| Submission Date: | Submit by Tuesday 4th December 2018, 23.59 |
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| Feedback Return Date: | Week beginning 7th January 2019 |
| Feedback Type: | Feedback via Blackboard |
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| Grading Criteria: | Refer to final page of this document |
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**CMP204 Dynamic Web Development 1**

**Unit 1- Portfolio**

# 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.

# Web Application (100%)

You will need to develop a web application which requires the use of up-to date, dynamic information. The web application must be based around **a band or an artist**. The requirements for the submission are outlined in the sections below.

# 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
* Purposeful interactive elements which enhance the appearance and functionality of the application

The web application should **not** have large areas of empty space or oversized graphics.

# 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

1. (all pages use bootstrap as layout – all pages)
2. (table that uses bootstrap – contact page, registration)
3. Have the bootstrap work on phone and change navigaton bar to work better on phones as well – need to do

* Use of JavaScript to manipulate the DOM based on an event

1. (Contact button change between fan and business (couldn’t use classes as it would not work however ID does.)

* JavaScript loading of dynamically changing information

1. (count down clock – index )
2. Twitter tweets feed from macklemore

* Use of jQuery in conjunction with the DOM

1. (automatic hide function of song names – index)
2. (toggle display of song names using button – index)

* Use of a jQuery plugin to enhance your application

1. (password strength tester (will tell user if their password is good or not) – register)

* Use of AJAX (pure JavaScript i.e. without the use of a library)

1. (Buttons that will load txt document and change text – about)

* Use of the jQuery AJAX function
  1. Button that will load txt document and change text – about (lyrics)
  2. Used the param jquery ajax function to display the profile of ryan lewis and macklemore on a button click
* Use of cookies
* User login functionality (PHP/MySQL)

1. A registration page has been created and there is also a login page where the user can login to their account on the website, there is also a logout button on each page for the user to click in case they need to log out of their account and will also delete all cookies as it will destroy the session.

* Admin section of the website (PHP/MySQL)
  1. When an admin account is used to login, they can got to the admin access page and then view any users details and delete the users from the database.
* Ability to select, add, edit and delete information from a database

(PHP/MySQL)

1. On update Account page the user can view their current information and then enter their new information on a field beside it, and then click the submit button when they are ready to change their information. This works by selecting the correct field in the database then update it with the new input of data however if there has not been anything entered the input field nothing will change.

* Appropriate consideration of relevant laws
* Security measures

o SQL queries should be written as prepared statements

o Passwords should be salted and hashed

* 1. Password is hashed when it is put into the database (registration)

o Validation of user input

* 1. User is required to enter information before continuing (register/ login)
  2. When user clicks submit it will check if what they have entered the fields, and see if it is enough (register)

o Any other relevant security features

1. When user logins their input will be validated and anything that could be a potential sql injection attempt will be cancelled as both inputs are ran though the functions stripcslashes and htmlspecialchars
2. If the user is not logged in and they attempt to go to a page on the site, they will be redirected to the login page
3. Don’t allow 2 users to share the same user name (NEED TO DO)

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 jQuery in conjunction with the DOM and implementing the jQuery AJAX function.

All requirements should further the quality of the application. The application should not include **pointless** use of interactivity or animations. Pointless features will not receive credit.

You should include a requirements page in your application (named req.php). You should state each of the requirements, and provide a sentence or two for each bullet point, 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.php, otherFile.js, etc.

# Additional information

You can use Lorem Ipsum to generate placeholder text: <https://loremipsum.io/>

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 Blackboard 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 link for the coursework on Blackboard:

* Web application – submit one single zipped folder containing all files pertaining to the web application developed

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

* mayar.abertay.ac.uk/~studentnumber/coursework/

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

* mayar.abertay.ac.uk/~studentnumber/coursework/index.php

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

* mayar.abertay.ac.uk/~studentnumber/coursework/req.php

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.

# Marking scheme

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

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|  | **CMP204 Dynamic Web Development 1 Marking Scheme** |
| **A+/A** | Evidence of a superior piece of work demonstrating a comprehensive understanding of the underlying concepts. Matches or exceeds the requirements of the brief. |
| **B+/B** | Evidence of a very good piece of work demonstrating a firm understanding of the underlying concepts. Matches nearly all the requirements of the brief, although one or two minor elements may be missing. |
| **C+/C** | Evidence of a good piece of work demonstrating a clear understanding of the underlying concepts. Matches the major requirements of the brief, although some requirements may be missing. |
| **D+/D** | Evidence of a satisfactory piece of work demonstrating a clear understanding of the key underlying concepts. Matches the key requirements of the brief. |
| **MF** | Evidence of only minor points of underlying knowledge, the work has major errors or omissions. However the submission must have some level of responsiveness to the brief. |
| **F** | Little or no evidence of familiarity with development knowledge, with many and major errors and/or omissions. The submission has no significant level of responsiveness to the brief. |
| **NS** | Little evidence of any relevant achievement or no work submitted. |