

Web Development II (CSC10217)

Session 2, 2017

Assignment 1	Design and build a Web site.
Learning Outcomes	1 – 4
Graduate Attributes	1, 3 & 4
Due Date	Week 6 (Midnight Monday, August 18 th , 2017)
Weight	15% of overall unit assessment
Mode	This assignment is developmental and cumulative. Successive parts of this assignment (and assignment 2) depend on previous parts. You are strongly advised to undertake these parts as soon as possible in your study. Leaving your starting date to the week before the due date is a very poor strategy for success in the unit.
Marks	A marking scheme will be posted on MySCU to help you direct your efforts successfully.

1. Task Description

Your assignment requires you to create a website suitable for a hypothetical DVD rental e-shop. Rather than give you a set way to build the site, you can choose a design of your own. However, it must at minimum include the content requested in Part B of the assignment below.

When you have completed the assignment you are required to;

1. Upload your site to your student directory (on the school's server infotech.scu.edu.au)
2. Upload a zip file of your site (and the design documentation) to the MySCU assignments folder.

Note to IBS students: Please check with your local lecturer/tutor the submission requirements for your assignments. Typically, they will be different from on-shore students of Southern Cross University.

Please note that all material used on your website has to comply with the Southern Cross University "Web Hosting and Publishing Policy" located at:

http://www.scu.edu.au/it/download.php?doc_id=3379&site_id=36

PART A: Design

Whereas the design component of your site **WILL NOT** be formally marked in this assignment you should complete it anyways as it **WILL** be marked as part of your assignment 2. You are providing it as part of assignment 1 to demonstrate to your tutor that you are on the correct track to complete your assignment 2. The feedback from your design documents will assist you in earning the maximum amount of marks in your second assignment.

Firstly, read PART B, below, to ascertain the tasks required for this assignment. You should also take into account assignment 2 as part of your complete design. Assignment 2 will add to your web site a complete web (using PHP) to database (MySQL) application.

A.1. Create a design using the appropriate design tools to provide sufficient information for someone else to develop your assignment. Empathise with that person and imagine that you are to receive a design from them. Include elements in your design that you would hope to find in their design for you to use. You may wish to use several of the design tools you were introduced to in Web Development I such as;

- Concept map
- Navigation map
- Structure chart
- Pseudo code
- CSS Plan
- Storyboards
- Testing Plan
- Prototype

At **minimum** you are required to provide a **Concept Map, Navigation Map and Structure Chart** for your site and **storyboards for each page in your site**.

A.2. Create a suitable plan of the CSS to be used within the site and include this in your design document (Page/s containing a sample of how the style will look).

A.3. Your design should also include a planned testing procedure. Some questions you might ask yourself:

- What testing needs to be done?
- Why is this testing needed?
- What methods did you use to test the site?
- Who should carry out the testing? (*This could be different people depending on what is being tested*).

Your design should be presented as a single word document. An example from a previous year's assignment (A small business site) is available in the assignment folder of MySCU. You **must** use the electronic Assignment Cover Sheet (located in the assignments submission folder of MySCU) as the title page of your design document.

PART B: Content

Your site at minimum will have the following content (each numbered item from 1 to 5 is a web page) – your navigation should allow access to all site pages from every page:

1. Homepage (index.html) for your DVD rental e-shop. This page will have at minimum a 2 column design (via CSS external style sheet). Your page **MUST** also contain (in the footer) a

fully qualified link to your website on the infotech server (this will assist in marking your on-line site). Additionally this page will have an advertisement for a new release movie. In this assignment the advertisement can be hardcoded into the HTML page.

In assignment 2 this page will change to (index.php) a php page that randomly selects a new release movie from your MySQL database to advertise. Your homepage will have links to the following pages (2-5). Note links should be mirrored on all pages of the site (the single exception will be the php database administration page in assignment 2).

2. **Contact** page for your hypothetical DVD store. Where is the store located? All the contact details you would expect to occur on a real site (contact form/email address, phone, picture of store, map etc.). This page should use the external CSS style sheet mentioned previously, but demonstrate both document level (embedded) CSS and in-line CSS – reflecting an understanding of the cascading effect of CSS.

3. **TechZone** page where you (with your picture) as the DVD e-shop's IT expert, who will (hypothetically) give advice to clients on all thing computer oriented. The first story that is currently on the site will be Apache2 vs. IIS7.5/8.5. This will be a **fully cited, using Harvard referencing style**, essay authored by you of approximately 1200 words where more is acceptable – less is not – articles of more than 1600 words or less than 1200 will be penalised. The article will describe why you (the expert) would choose Apache or IIS as the web server for a company site. It should:

- a. Compare and contrast the two systems/platforms
- b. Provide the costing of both systems (including ongoing maintenance).
- c. Contain a bibliography & a **word count** (not counting the bibliography).

Notes: You may use diagrams, pictures, graphs as desired to support your article. The bulk of the article is to be authored by **YOU**, an essay that is mostly quotes from other sources will be penalised. Plagiarism will **NOT** be tolerated. See Section 6 of this assignment for further information.

4. **Join** the DVD e-shop page. This page gathers information about users and allows them to join the DVD e-shop. Initially the data will be posted to:

http://infotech.scu.edu.au/cgi-bin/echo_form

For testing purposes - in assignment 2 you will re-use this form as part of your complete database to web application by targeting it at a PHP page or rescripting it as a self-targeting PHP form. Your form will have the following fields and widgets to collect user information:

- a) Surname (50 characters - max), **compulsory field** HTML5 acceptable.
- b) Other names (60 characters - max), **compulsory field** HTML5 acceptable.
- c) Radio buttons to select preferred communication method (e-mail, mobile or land-line telephone). You must check that the field selected contains information before submission of the form. (**default is email**)
- d) Day-time telephone number (must contain format (0[2,3,6,7,8,or 9]) XXXXXXXX where X is a digit only – **Note:** there is a single space between the brackets and last 8 digits); **compulsory field only if this contact method chosen.**
- e) Mobile telephone number (must contain format 0[4 or 5]XX XXX XXX where X is a digit only); **compulsory field only if this contact method chosen.**

- f) E-mail address (50 characters, should be in email format); **compulsory field only if this contact method chosen**. In assignment 2 you will be given an email validator suitable for use with PHP – that will fully check the address, at this stage HTML5 acceptable.
NOTE: even if not chosen as the contact method (d, e or f) each contact method should be available and error checked for the correct format (if provided).
- g) A checkbox to indicate whether the user wants to receive the DVD shops monthly magazine (**default checked**).
- h) Postal address - two text fields of 50 characters each (street number/name and suburb/state) plus a postcode text field of 4 characters (all characters must be digits); **compulsory fields if user wants to receive DVD shops magazine**.
- i) Username selected by user (min. 6 – max. 10 characters no whitespace allowed.), **compulsory field**.
- j) Password selected by user (10 characters maximum containing at minimum one uppercase letter, one lowercase letter one number and one special character with no whitespace allowed), **compulsory field**.
- k) Repeated Password selected by user, **compulsory field**.
NOTE: Both password fields (j and k) will have to be checked on submit to make sure they match – **identically**.
- l) A drop-down box to select one occupation out of 10 different ones (e.g. student, professional, business person, etc.). Last choice must be other, **compulsory field**.
- m) A hidden field named "join-date". This is the current system date. Used for promotion's. Format YYYY-MM-DD this format not the easiest in JavaScript – see <http://stackoverflow.com/questions/3605214/javascript-add-leading-zeroes-to-date> for a hint
- n) A submit and a reset button.

Your form should check that all compulsory fields are completed properly **when the submit button is clicked (onsubmit) using JavaScript** (except where HTML5 is listed as being acceptable) – if not all completed an alert should be given to user to direct them to any error in their entry to the form.

Your form should have some form of Help information associated with it, whether that is a changing display on the page (perhaps triggered by focus) – or a pop-up page/alert triggered by pressing a help button associated with each item. Help should be available to the user for the information required at components c, d, e, f, h, i, j and k. You may wish to add other dynamic features to make your form more attractive. You should also use pure CSS to make your fields line up on the screen (using a table for layout is unacceptable).

5. **MovieZone** (moviezone.html) a page that will display all the movies in your MySQL database by New Releases, Classification, Title, Star, Director and Genre, this area will allow users that are joined to the site (after logging in) to reserve a movie. Also located on this page will be a password protected entry to the administration system for the stores database. **In assignment 1 all of this is under construction!** This will be detailed in your assignment 2. So for this assignment design and create the “holding page” for this MovieZone page to be completed for Assignment two.

2. Marking criteria

A spreadsheet that will be used for the marking of your site is provided (co-located with this assignment specification) on MySCU to itemise exactly what tutors will be looking at in relation to marking your website. It contains a detailed breakdown of the marking criteria for this assignment.

I strongly suggest you peruse this spreadsheet.

3. Submission Format

When you have completed the assignment, you are required to submit your assignment (a zip file containing your complete site and the design document) to the MySCU assignment folder.

The zip file will be named using the following convention:

filename = **FirstInitialYourLastName_CSC10217_Ass1.zip**
(i.e. FJones_CSC10217_Ass1.zip)

Additionally, you are required to upload your site to your student directory (on the school's server infotech.scu.edu.au) and verify that all works well.

Note to **IBS** students: Please check with your local lecturer/tutor the submission requirements for your assignments. Typically, they will be different from on-shore students of Southern Cross University.

4. Advice

You should start this assignment as soon as possible. The assignment is meant to be completed one part at a time – **WARNING!** – don't leave the whole assignment to the last week. After creating your design, you should be able to start on the HTML, CSS and Web Server essay. The JavaScript portion of this assignment can be started as soon as you finish the relevant tutorials.

I suggest you visit the Internet Movie Database (IMDb - <http://www.imdb.com>) for all your movie needs. Additionally, as this is an educational exercise (a hypothetical DVD e-shop that will be deleted at the end of semester) DVD pictures can be “borrowed” from this site for the purposes of this assignment.

5. More information

All design documents must be contained in one single word document. Drawings and diagrams should be word-processed or scanned, then placed into a word document. Files created in non-university standard programs cannot be accepted, as the marker may not be able to view them.

In this assignment, you can use any HTML design environment you desire to complete your website. However, please note the following:

- All HTML pages and CSS files must validate.
- JavaScript is the only allowable language for error checking on the join page.

My Recommendations (what I used) are as follows:

- Notepad++ to author all HTML, JavaScript, PHP and MySQL.
- XAMPP for testing all of these files on my Home PC (Apache 2, PHP & MySQL).

All software mentioned here can be downloaded (**For Free**) – visit the “Software Essentials” folder in the MySCU site associated with this unit for further information. If you need more information about completing this assignment, then you should contact your tutor.

6. Original work

It is a University requirement that a student’s work complies with the Academic Policy, Chapter 4.20 on Student Academic Integrity. It is a student’s responsibility to be familiar with the Policy.

Failure to comply with the Policy can have **severe consequences** in the form of University sanctions. For information on this Policy please refer to Chapter 4.20 on Student Academic Integrity at the following website:

<http://www.scu.edu.au/governance/academicboard/policy/>

As part of a University initiative to support the development of academic integrity, assessments may be checked for plagiarism, including through an electronic system, either internally or by a plagiarism checking service, and be held for future checking and matching purposes.

7. Retain duplicate copy

Before submitting the assignment, you are advised to retain electronic copies of original work. In the event of any uncertainty regarding the submission of assessment items, you may be requested to reproduce a final copy.

8. School Extension Policy

Students wanting an extension must make a request at least 24 hours before the assessment item is due and the request must be received in writing by the unit assessor or designated academic.

Extensions within 24 hours of submission or following the submission deadline will not be granted (unless supported by a doctor’s certificate or where there are exceptional circumstances – this will be at unit assessor’s discretion and will be considered on a case by case basis). Extensions will be for a maximum of 48 hours (longer extensions supported by a doctor’s certificate or exceptional circumstances to be considered on a case by case basis).

A penalty of 5% of the total available grade will accrue for each 24-hour period that an assessment item is submitted late. Therefore, an assessment item worth 20 marks will have 1 marks deducted for every 24-hour period and at the end of 20 days will receive 0 marks.

Students who fail to submit following the guidelines in this Unit Information Guide will be deemed to have not submitted the assessment item and the above penalty will be applied until the specified submission guidelines are followed.

9. Marks and Feedback

All assessment materials submitted during the semester will normally be marked and returned within two weeks of the required date of submission (provided that the assessment materials have been submitted by the due date).

Marks will be made available to each student via the MySCU Grade book.