COMP.5210

Web Application Implementation

Project

Assignment 2 – Semester 1 2019

**Due Date: 4pm Friday 14 June - 2019   
Weighting: 40%**

**Marks: 100 marks**

**Aim:**

To create a content management system driven website from the designs developed for assignment 1.

**Learning outcomes covered:**

1. Select an appropriate software development paradigm.
2. Use software development standards to implement a user interface.
3. Install and configure a web-based solution using web scripting.
4. Initialise system data.

## Notes:

This is an individual assignment and must be the product of your own work. Students are reminded to read pages related to assessment rules including rules for dishonest work in the Toi Ohomai Student Guide.

Part A, B (evaluation documents) and C (test plan) must be submitted in electronic form to moodle as a single Word document. You are also required to submit a zipped copy of your website templates (html/css) and an exported zipped copy of your child theme. You may further zip all these files into 1 large submission file that you upload to moodle.

The Project Site is to be developed and submitted on your hosted WordPress installation. You will need to provide your tutor with any login credentials for marking purposes.

## Requirements

You are to use the idea for the database driven website that you developed in Assignment 1 and implement it as a WordPress CMS driven website.

The website must conform to the original design features identified in Assignment 1 and incorporate any amendments as suggested by your tutor in the feedback from that assignment\*

The site must have as a minimum the following features and functions as highlighted in the specifications for assignment 1:

* Home page, About, Catalogue, Featured selection, Contact form, Feedback, Enrolment/Signup page, Policy Documents, Discussion Board or Blog page.
* The website must be able to support feedback and enrolment style forms
* The site must also be able to manage discussion forum items appropriately
* Link to a Social Media service

Additionally the website must incorporate a Google map showing the location of the company.

## Part A - Theme Selection

Via your Wordpress installation, use a theme that you will select for child-theme modification. Make the necessary child-theme modifications to as close as possible recreate the HTML/CSS template documents that were created in Assignment 1.

Your selected theme must:

* Be easily modifiable to your design via the use of a child theme.
* Be supportive of the functionality required either via directly embedded code or via appropriate plugins.
* Must be mobile and tablet responsive

**Note: You are NOT to compromise your design to make it fit a theme. If you cannot make the theme fit your design even with child theme modification you must discard it and test another. The point of this exercise is to adapt the theme to your design NOT the other way around.**

You are required to create a written theme evaluation document to describe the critical elements of your template design and align those with the capabilities of the selected theme. Highlight those components that fit the native theme and those that will need modifying via child-theme. You may use a tabular layout if it makes it easier to produce this document. Use this document to justify your final selected theme. To help provide evidential support for your selection you will need to leave the other evaluated themes inactive in your WordPress Theme installer but remove any other non-tested or unused themes. This document is to be directly focussed on your page template design. You will need to supply a modified\* copy of your template files as a zip file with your submission.

## Part B – Site Construction

**Build the site.** Create content pages that match the requirements listed above and design and configure the site menu system to match the layout described in your navigation map from assignment 1. The basic page structure should be as per assignment 1. If you are doing Tarawera Legal you will need at least the following as quoted from assignment 1:

* They want a website with the following features and functions:
  + Home page
  + About
  + Legal Services
  + Advise (FAQ) page
  + Contact form
  + Appointment request page
  + Policy Documents
  + Discussion Board or feedback page

The completed site must also include any other pages identified in your assignment 1 submission. If your site design is something other than Tarawera Legal then your site must reflect that design instead.

**Content.** If you do not have text content then you may use Lorem Ipsum in your pages but your images must be the real deal. You should already have design imagery from assignment 1 but if you need to source outside images for content then please ensure that you reference the location from which the images were obtained. Google image search is not sufficient. You may use Creative Commons (CC) sources such as Wikimedia or pexels.com to source imagery if necessary. References for these should be an appendix to the evaluation document from Part A.

**Plugin functionality**. As there is such a large array of plugins available for all sorts of features, any plugins used to provide functionality must be evaluated in a similar manner to the themes. Add these to your evaluation document from Part A.

Select appropriate plugins for the following features:

* Contact form
* Feedback
* Enrolment / Signup page
* Blog page
* Maps
* Weather feeds
* Social media links
* Child theme configuration tool
* Or any other feature as identified in your Assignment 1 design.

Discuss this with your tutor if you are not sure.

An exported zip file of your child theme should be uploaded with your Part A documentation submission.

## Part C - Testing

Create a testing plan to test the operation and functionality of the website. All aspects of the site must be tested including layout, page content, functionality of any plugins/features, etc. You should include the feature being tested, the test being run, the expected outcome and actual outcome and any recommendations for fixes if any errors are found. Again, this can be laid out in tabular form.

Test the site operation in various browsers and screen sizes to ensure your site is mobile responsive. (Test in at least Chrome, IE or The Edge and Firefox. Extra marks will be awarded for testing in Opera and Safari in both mobile and desktop formats).

\* Modification is only required if issues were identified for correction in the Assignment 1 marking. If your site design was accepted then your template files remain unmodified unless otherwise approved by your tutor. See requirements section above.

## COMP.5210 Assignment 2 Marking schedule: Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student ID \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- | --- | --- | --- |
| **Part A – Theme Selection** | | | | |
|  | Insufficient | Meets Expectations | Exceeds Expectations |  |
| **Themes & Justification** |  |  |  |  |
| Child theme plugin correctly configured and active | Not installed (0) | Installed (1) | Installed and active (2-3) | 3 |
| Appropriate theme match to site design identified | Not done (0) | Done and matches initial design (1-2) | | 2 |
| Appropriate theme match to site design justified appropriately – good rationale for selection | Not included  (0) | Partly justified (1-2) | Justified with good rationale  (3-5) | 5 |
| Well-presented document – easy to follow | Not Done (0) | Done and easy to follow (2) | | 2 |
|  | | | |  |
| **Total Part A** | | | | **/12** |
|  | | | | |
| **Part B – Site Construction** | | | | |
| **Design and Layout (matches html and CSS)** | | | | |
| Theme layout matches html/CSS template pages  (content and home pages) | Not done (0) | Layout correctly implemented (1-5) | Well Designed & correctly implemented (6-10) | 10 |
| Child Theme properly configured as required | Not configured (0) | Configured and working as required (1-2) | | 2 |
| Child theme has appropriate style header and theme image | No (0) | Partly (1-3) | Fully (4-6) | 6 |
| Completed child theme exported as zip and submitted | No (0) | Yes (2) | | 2 |
| All required pages present and contain the requested content (lorem ipsum where appropriate) | No (0) | Yes – 1-2 marks per page up to 10 marks (1-2) | | 10 |
| Content images sourced and cited and used appropriately (images relevant to site topic) | Not Done (0) | Partly  (1-5) | Fully(APA6)  (6-10) | 10 |
|  | | | | **/40** |
| **Plug-in Evaluation** | | | | |
| Well-presented document – easy to follow | Not Done (0) | Done and easy to follow (1-2) | | 2 |
| Other non-required plug-ins removed – including default demo plug-ins | Not Done (0) | Done (1) | | 1 |
| Contact Form configured correctly | Not Done (0) | Partly Configured  (1) | Fully Configured (2-3) | 3 |
| Blog/Feedback/Appointment Request Form/s configured correctly | Not Done (0) | Partly Configured  (1-2) | Fully Configured (3-4) | 4 |
|  | | | | **/10** |
|  | | | | |
| **Total Part A + B** | | | | **/62** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Part C -Testing** | | | | |
| **Testing Plan** | | | | |
| Pages tested and results recorded – Layout matches html/CSS on all pages | No (0) | 1 mark per page to max 10 marks | | 10 |
| Pages tested and results recorded – Content appropriate for page and adequate for page type | No (0) | 1 mark per page to max 10 pages (max 10 marks) | | 10 |
| Plugin functionality tested and results recorded | No (0) | 1-2 marks per tested plugin to max 10 marks (1-2) | | 10 |
| Well-presented test plan document – easy to follow | No (0) | Yes (1) | | 1 |
| **Total** | | | | **/31** |
|  | | | |  |
| **Testing and Submission** | | | | |
| Site works as claimed in 3 popular browsers (any three of Chrome, Edge, Firefox, Safari, Opera) | Not implemented (0) | Partly implemented (1-2) | Fully implemented (3) | 3 |
| Mobile Friendly site (Works in tablet and phone) | Not done  (0) | Works OK in 1 device type  (1) | Works OK in 2 device types (2) | 2 |
| Working website login credentials supplied | Not supplied (0) | Supplied and work correctly  (2) | | 2 |
|  | | | | **/7** |
|  | | | | |
| **Total Part C - Testing** | | | | **/38** |
|  | | | | |
| **Assignment Total Marks** | | | | **/100** |