COMP.5210

Web Application Implementation

User Interface Design Assignment

Assignment 1 – Semester 1 2019

**Due Date: 4pm Friday 14th June 2019   
Weighting: 30%**

**Marks: 100 marks**

**Aim:**

To create a design specification document, wireframes, storyboard and an HTML/CSS template which will be used as a basis for your next assignments.

**Learning outcomes covered:**

1. Select an appropriate software development paradigm.
2. Use software development standards to implement a user interface.

## 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 (design document) must be submitted in electronic form to *Moodle* as a single Word document.

Part B is to be zipped into one file and submitted via assignment upload on *Moodle*.

## Requirements

You are to come to your tutor with an idea for a database driven website that can be implemented in a CMS. The website must be appropriate for a small business, professional body or charity/public service body

The site must have as a minimum the following features and functions:

Home page, About, Catalogue (Products/Services), Featured selection (or FAQ), Contact / Appointment request form, Policy Documents, Links to Social Media.

The website must be able to support a comment /appointment or service request form.

*If you do not have a site idea of your own you may with the permission of your tutor use the scenario listed below:*

## Scenario Background

* Tarawera Legal Services is a small legal practice based in central Rotorua.
* They offer basic legal services to their clients ranging from traffic and criminal court representation through to property law and conveyancing services
* They take few appointment bookings via email from clients but would like to expand this by branching out into the web by offering an appointment request service that works via email
* They want a website with the following features and functions:
  + Home page
  + About
  + Legal Services
  + Advise (FAQ) page
  + Contact / Appointment Request form
  + Policy Documents
  + Link to Facebook
* They have their company logo, which is on their company stationary and company office but are open to other design ideas for the site. A copy of which will be available on *Moodle* for download and use in Part B of this assignment

## Part A

Create a design document and brief that contains both logical (sitemap) and physical design specifications. You will need to research the site style and an appropriate layout for your site to ensure your proposed design is appropriate for a legal website.

Your design document must include a site outline / scoping document describing the site features and functions that will be produced. It must also contain a graphical representation (mock-up/storyboard and wireframes) of the user interface, including fonts (style, weight, size, etc.) colour codes, measurements, any proposed imagery and use of the existing logo. It must also contain a site navigation map. These designs can initially be produced on paper (highly advisable) but transferred to a digital format for submission in the assignment.

## Part B

Based on your design document from Part A create a 2 page html template - home page and a single content page. The template should be saved with an html file extension and be contained within an appropriate site folder tree. The presentation layer must be created using CSS3 and the html must be html5 compliant and preferably use semantic mark-up. You MUST use the company logo in your layout but may source all other relevant graphic elements yourself. Any graphics you do not create yourself must be sited and referenced using APA6 format in Part A of this assignment. You must also design your site template to be responsive (viewable on mobile as well as desktop devices) using the appropriate meta tag(s) and element measurements to facilitate this.

## Part C

Design and create an HTML form page that fits within the layout of your site templates as created in assignment 1. The form is to be a contact form. Form fields should be styled appropriately to match your design. Your form is to have at least 4 mandatory fields in which the user is required to enter information

You are to write JavaScript validation routines for all of the mandatory fields that will warn the user if any required fields are blank and return the focus to the (first) field that is missing required information.

All JavaScript routines (except embedded function calls) must be placed in a separate .js file in your site folder tree.

## Marking schedule

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Part A** | | | | |
|  | Insufficient | Meets Expectations | Exceeds Expectations |  |
| **Project Outline/Scope** | | | | |
| Site Outline Document | Not Done (0) | Partly described  (1-2) | Fully described  (3-4) | 4 |
| Scope correctly identified | Not Done (0) | Partly (1) | Fully (2) | 2 |
|  | | | | **/6** |
| **Graphical user interface design** |  |  |  |  |
| Design style is appropriate for purpose | Not Appropriate (0) | Appropriate (1) | Well designed (2-3) | 3 |
| font style, weights, colour, including colour & codes | Not included (0 ) | Partly included (1-2) | All included (3-4) | 4 |
| Graphic elements are relevant to site | No (0) | Partly (1-3) | Fully relevant (4-5) | 5 |
| Measurements | Not supplied (0) | Supplied (1) | | 1 |
| Logo | Not Done (0) | Done (1) | | 1 |
|  | | | | **/14** |
| **Storyboards & Wireframe** | | | | |
| 2 pages wire framed | Not Listed (0) | Partly (1) | Fully (2-3) | 3 |
| Shows element positioning | Not Listed (0) | Partly (1) | Fully (2-3) | 3 |
| Graphical representation of website (storyboard) | Not Done (0) | 1 page (1) | 2 or more (2) | 2 |
|  | | | | **/8** |
| **Site Map** | | | | |
| Full sitemap showing all pages and links between | Not Supplied (0) | Partly identified  (1-3) | Fully Identified  (4-6) | 6 |
|  | | | | **/6** |
| **Form Pages** | | | | |
| Contact / Appointment form designed | None (0) | Partly matches site  (1-3) | Design fully matches site (4-6) | 6 |
| Appropriate fields included | Not Done(0) | Some included (1-2) | All necessary fields (3-4) | 4 |
|  | | | | **/10** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Part B** | | | | |
| **Site Template (HTML with CSS)** | | | | |
| html pages designed & laid out correctly | Not done (0) | Completed (1-2) | Well Designed  (3-4) | 4 |
| Appropriate meta tags & measurements included for responsive design | Not done (0) | Partly (1) | Fully (2) | 2 |
| Template file(s) have html extension | No (0) | Yes (2) | | 2 |
| Presentation layer is CSS | No (0) | Partly (1) | Fully (2-3) | 3 |
| CSS3 standards compliant | No (0) | Partly (1) | Fully (2) | 2 |
| HTML5 compliant | No (0) | Partly (1) | Fully inc. semantic tags (2) | 2 |
| Appropriate graphics included. Adapted and sized accordingly | No (0) | Partly (1-2) | Fully inc. image resize & ALT (3-4) | 4 |
| Content images have meaningful ALT tags | No (0) | Yes (1) | | 1 |
| Pages match storyboard & wireframe layout | No (0) | Partly or 1 page (1-2) | Fully with 2 or more pages (3-4) | 4 |
|  | | | | **/24** |
| **Site Folder Tree** | | | | |
| Site folder tree | Not implemented (0) | Partly implemented (1-2) | Fully implemented (3-4) | 4 |
| Site files in correct folders | Not implemented (0) | Partly implemented (1-2) | Fully implemented  (3-4) | 4 |
|  | | | | **/8** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Part C** | | | | | |
| **HTML Forms and JavaScript** | Insufficient | Meets Expectations | Exceeds Expectations | | Marks |
| Form page template created | Not Done (0) | Done (1) | | | 1 |
| Contains correct number of mandatory fields appropriately named | Not done (0) | 1-3 fields  (1-2) | Min 4 fields  (3-4) | | 4 |
| Form design appropriate for and in keeping with site template design document | Not done (0 ) | Form functional not well matched to template  (1-2) | All functional and well matched  (3-4) | | 4 |
| Form fields appropriate for site template – appropriate type of data being collected | Not done (0) | Appropriate to requirements (2) | | | 2 |
| Form submission works correctly | Not Done (0) | Form submission works (1) | | | 1 |
|  | | | | | **/12** |
| **JavaScript Validation** | | | | | |
| Validation applied to mandatory fields and works correctly | Not Done (0) | Partly on some fields  (1-3) | Fully applied and working (4) Min 4 Fields | | 4 |
| JS code is well documented | None (0) | Partly (1-2) | Fully (3-4) | | 4 |
| Validation code in separate .JS file | No .JS file (0) | Partly. Split between .JS & html (1-2) | Fully within JS functions in.JS file (3-4) | | 4 |
|  | | | | | **/12** |
| **Total** | | | | **/100** | |