ICT108 Project

Project Due: by 4pm on 30 October 2013

Worth 30% of overall assessment.

This is an individual assessment.

WARNING: Take note of academic integrity issues. Lack of this can lead to serious penalties. Read the following links carefully:

Submit the Assignment via LMS by the due date and time. Remember to include the cover sheet when submitting.

Make sure you have a back up for your submission.

Late submissions will incur a 5% penalty for each day’s delay, unless a prior extension due to illness or some other serious unforeseen event is obtained.

SOFTWARE ALLOWED TO BE USED:

- There is no limitation of what software you can use. However, you will need to state all the software used in your project documents. The following are only a list of software tools you may want to explore:
  - Expression Web
  - Dreamweaver
  - Flash
  - GIMP - The GNU Image Manipulation Program

PROJECT REQUIREMENTS

1. The project is to create a set of at least 10 related web pages “from scratch” with links to at least 5 other related pages not created by you (i.e. URLs). You have to create 10 pages and in these 10 pages created, you have to link to 5 external pages (created by someone).
2. You are not allowed to use any template for creating the 10 web pages.
3. The relationship between the pages you create and the links that you include is an overall topic (theme) of your choice. Examples: a website for a basketball club, a café, online how-to tutorials, a school, or online book store.
4. The project report (see below) is to be a link from your project’s first page.
5. Your assessment is restricted to 30 Mb (unzip, not when it is compressed for submission).
6. You need to include text and graphics in every page. You may also include video, sound and animation.
You have to provide **metadata** (author, description, keywords, owner and rating) in your webpages.

You have to **use external CSS** for your website.

The website has to be developed using **HTML5** and **CSS3** standards.

You have to demonstrate the use of the following in at least one of your webpage:

- HTML5 structural elements
- ordered lists
- linking to locations within a document
- using colour with opacity value
- contextual selectors
- box model with margins and paddings
- fluid layout
- relative positioning for object
- web table
- JavaScript

You are required to optimise at least 2 of the pages for mobile devices. You have to state which mobile device/s you have optimised them for on the page itself.

You **MUST NOT** use any copyright material (picture, figure, music etc) without the permission of the owner. This includes the use of any content from other website or document, i.e. no cut and paste.

All project pages must adhere to the **Web Content Accessibility Guidelines 1.0 priority 1** (conformance Level A). See [http://www.w3.org/TR/WAI-WEBCONTENT/](http://www.w3.org/TR/WAI-WEBCONTENT/)

You are encouraged to use the Web Design Best Practices Checklist at [http://terrymorris.net/bestpractices/](http://terrymorris.net/bestpractices/) to cross check your webpages.

**PROJECT PLANNING**

**Project Objectives**

Consist of the following:

- The project objectives. In addressing the objectives you should answer the following questions:
  - (a) who will be your target audience?
  - (b) what is the aim of the project, e.g. to inform, to entertain, to educate, etc?
  - (c) what is the message you want to convey to your viewers, e.g. to relax, to take action, to change lifestyle, etc.
  - (d) anything else which is specific to your project topic

This can be completed in MS Word. You can save as Web Page format when link to your website in the final submission.

**Design – storyboards**

Produce a storyboard of all your web pages. The objective of the plan is to show information about each web page within the ‘system’ of pages. **A storyboard must be completed for each web page.** The storyboards must be computer-drawn in PowerPoint or Word. You can save as Web Page format when link to your website in the final submission.

**Navigation chart**

The objective of the navigation chart is to show each web page within the ‘system’ of pages. The navigation diagram should show the navigation that is possible within the ‘system’ of pages. Show this
with one and two headed arrows. It should indicate the title of each page along with the filename which contains the page. The navigation chart must be computer-drawn in PowerPoint or Word. You can save as Web Page format when link to your website in the final submission.

**PROJECT REPORT**

In addition to your project (web pages), you will need to write a report in HTML about your project. You can also write your report in MS Word and save as Web Page format. **The report is NOT counted as one of your 10 pages.** Your report will be included in your submission and linked from the first page of your project. Your report will include the following:

- Project planning *(see description before)*
- Software tools used
- Borrowed features
- Self-assessment

**Project planning**

See description before.

**Software tools used**

State all the software tools used in creating the webpages in your project.

**Borrowed features**

If you use any features that have come from somewhere else, you must acknowledge the source of the material. If you have been given permission to use any copyright material, you must include the written permission here (usually the email). You will be given credit for:

- finding the code (e.g. Javascript)
- making sure that it is legal to use it
- using it appropriately within your project
- integrating it into your project.

In your report, indicate which material has been borrowed and how you have complied with copyright law. Some suggestions on referencing, and thus complying with copyright law, are:

1. A “reference” page. This page **cannot** be counted as one of your 10 pages. You could list your references this way:
   - Graphics:
     - index.html, graphic1.png, [http://www...]
     - anotherpage.html, graphic1.jpg, [http://www...]
     - anotherpage.html, graphic2.gif, [http://www...]
   - Audio
     - index.html, audio1.wav, [http://www...

2. Another way is to link the component to the actual URL where it came from.

3. Or you could link the component to the actual item in your reference page (e.g. `<a href="referencepage.html#reference1"></a>` and that particular item on your reference page would be “named” with a `<a id="reference1" name="reference1"></a>` tag.
Self-assessment

This should include the following:

- List all the problems that you found with your work and could not fix because of time or other reasons. This will include both design and implementation problems. You must do a final test of your work.
- Indicate that you comply with all the requirements of the project, including XHTML and doctype used, W3C accessibility compliance (copy and paste the table from http://www.w3.org/TR/WAI-WEBCONTENT/full-checklist.html to indicate your compliance with accessibility). This accessibility table needs to be incorporated into your report.
- Indicate your own assessment of the quality of your work by using some criteria. You can use the Web Design Best Practices Checklist (http://terrymorris.net/bestpractices/).
- List down the two pages that have been optimised for mobile devices.
- Test the project on at least two different web browsers (e.g. Internet Explorer and Firefox). If you encountered any problem when displaying on any browsers you have tested, highlight here.

REFERENCE

You should find some useful information for your project in the following references

- The recommended book: Patrick Carey
- Web Content Accessibility Guidelines 1.0 at http://www.w3.org/TR/WAI-WEBCONTENT/
- List of Accessibility checkpoints is at http://www.w3.org/TR/WAI-WEBCONTENT/checkpoint-list.html
- Mobile Web Best Practices 1.0 at http://www.w3.org/TR/mobile-bp/
- Accessibility table that you need to complete and incorporate into your report is at http://www.w3.org/TR/WAI-WEBCONTENT/full-checklist.html.
- W3C Schools Online, http://www.w3schools.com
- Make the mobile web faster: http://code.google.com/speed/articles/mobile.html
- Changing the Design of a Page for Wireless Devices with the Handheld Media Type, http://webdesign.about.com/od/wireless/a/aa070307.htm

Final Submission Requirements

- Your submission will include 5 main parts:
  1. Assessment cover sheet (found on LMS)
  2. Project report (see description above)
  3. Design – storyboard (see description above)
  4. Navigation chart (see description above)
  5. The project – the website

- Compress/Zip all relevant files into one file – remember to include all the media files used
- Remember to check the total size of all files (including all media files) when uncompressed is less than 30MB.
ASSESSMENT CRITERIA

- Project objectives (5%)
  - Topic and purpose is clear
  - Good analysis on the objectives
  - Target audience analysis

- Project Requirements (20%)
  - Meeting numbers 1 to 10 of the project requirements

- Project Plan (15%)
  - Clear navigation chart
  - Clear storyboard provided
  - Appropriate software used

- Design (25%)
  - Suitable color and fonts
  - Media used
  - Appropriate CSS used
  - Optimised for mobile devices (at least 2 pages)
  - Navigation – accessible, intuitive, consistent, links
  - Overall web design

- Content (15%)
  - Clear, informative, interesting
  - Ability to meet the objectives stated
  - Meet Project report requirements
  - Appropriate comment used
  - Spelling and grammar (including the quality of the report)

- Self Assessment (15%)
  - Conforms with web accessibility level 1
  - Optimised Mobile Web pages
  - Web Design Best Practices Checklist

- Creativity (5%)
  - Borrowed features
  - Created features

Don’t wait till last minutes. Start your project as soon as possible. You will require suitable level of time management skill to complete the tasks required in this project.