Swinburne University of Technology Sarawak Campus

FST10011 Fundamentals of Web Technology
Semester 2, 2018

Web Development Assignment (30%)

Percentage : **30%** (15% – Website, 10% – Documentation, 5% – Presentation)
Deadline : **Week 12, on your respective PRESENTATION DAY**

Assignment Descriptions

- This is a **group** assignment with each group of **3 to 4 members** from the same tutorial group.
- Each group member should produce a **minimum of 3 web pages**. Thus, a group of 3 has to produce a minimum of 9 web pages while that of 4 will be a minimum of 12 web pages.
- You are to develop the website from scratch using **HTML and CSS** via HTML editor ONLY such as Notepad.
- Use of web template and framework, and WYSIWYG editor are prohibited.
- You are required to produce a documentation of your website.
- You are required to look for a free web hosting to **publish your website online** such as https://byet.host/.
- Refer to the marking scheme provided on the marks allocation.

Topic

Your task is to develop a website for a client you choose (or create). The aim of the website is to help the client to introduce their audiences to ONE topic. The topic can be about selling their products or service, promote upcoming event (e.g. concert, festival) or etc. For example:

"Develop a website for the client, Sarawak Tourism Board to promote their event, Rainforest World Music Festival."

Note: Each group must work on a different topic. Thus, topic selection is based on first-come, first-served basis upon approval by your respective tutor on your tutorial session in week 3. You are also required to pitch your ideas to your respective tutor during this session.

Website (15%)

Your group is required to create a consistent and well-structured website that meets the website purpose. The website MUST contain the following features:

Standards

- All HTML files must be well-structured and validated against **HTML5** at http://validator.w3.org/.
- All CSS files must be validated at http://jigsaw.w3.org/css-validator/.
- All HTML and CSS coding must follow the **HTML Coding Standards** provided for this unit. Refer to the document given, *FST10011_HTML_Coding_Standards.pdf*.
- All pages must consider the web usability and accessibility issues.
- Use **Google Chrome** as the standard browser to view your website to avoid issues related to different levels of support by other browsers.

Site Structure

Your website must consist of the following minimum pages with the site structure as described below:

Folder/File Name (in lowercase)	Description
`yourgroupname/`	You must have this **main folder**.
`index.html`	The homepage.
`about.html`	About the client.
`feedback.html`	Contains a form that allows visitors to give their feedback on your website.
`yourgroupname.html`	This page describes about your group members in ONE page.
and other HTML files	Other pages depending on your group size.
`images/`	All images must be stored in this folder.
`style.css`	Contains ALL the styles.

Notes:

- ALL HTML files must only be in the main `yourgroupname/` folder (NO subfolders for your HTML files).
- ALL CSS used must be contained in ONE CSS file only and must be named `style.css`. NO other CSS files are allowed in the folder.
- ALL images used must be stored in the `yourgroupname/images/` folder.

Website Requirements

1. Each page must use **fluid layout** using CSS based layout allowing the website to resize relatively when the browser window is resized.
   - For the page layout, each page must have the following **four (4) common structural elements**:
     a. Header Section `<header>`
     b. Menu Section `<nav>`
     c. Footer Section `<footer>`
     d. Primary Content `<article>`

2. Each page must have the same **header section** that identifies the topic of your website.

3. Each page must have the same **menu section**. This should be done using unordered list elements and appropriately styled using CSS.
   - The navigations included have to be related to the topic.

4. Each page must have a **footer section** at the bottom of the page with the following information:

   © *Group Name* | Last updated: *date*
   - This footer section should include a link to the `yourgroupname.html` page.

5. Each page must have a suitable **main heading** and **sub heading(s)** (if any) that are appropriate for the page using the heading elements.

6. The **index.html** page.
   - Include a brief introduction that describes about the website and its purpose.
   - At the bottom of this page (NOT in the footer section), include and format the following information properly:

   > *Disclaimer: This website is created for education and non-commercial use only. It is an assignment for completion of unit, FST10011 Fundamentals of Web Technology based on the Foundation (IT/Multimedia) course from Swinburne University of Technology Sarawak Campus.*

7. The **yourgroupname.html** page.
   - A brief description and at least a photo of each group member in ONE page only.

8. The **feedback.html** page that allows visitors to give their feedback on your website.
   - The form must include at least six (6) different form elements such as text inputs, text area, checkboxes, radio buttons, date and time inputs, etc.
   - Use the `<fieldset>` and `<legend>` elements to group related form elements.
   - Use `<label>` elements to enhance the usability of the form.
   - Use a table element to structure the form.

9. All **images** for the content.
   - Must set an appropriate alternate text using the `alt` attribute.
   - File size for all the images should be kept small.

10. All the **secondary resources/references** used for the content must be clearly cited using the comment elements (`<!-- … -->`).
    - For example:
      ```
      <!-- This information is taken from
      http://www.swinburne.edu.my/about_swinburne.php -->
      ```

11. Your website must contain the following elements at least ONCE:
    - A well-formatted and structured **table** for tabular data (other than the form) that must include a table caption, table headings, `rowspan` and `colspan` attributes.
    - **Lists**, demonstrate ordered and unordered lists, or **nested lists** (other than the menu).
    - **Links**, both internal (to other pages (other than the menu links) and to page `#section`), and a minimum of 3 external links that links to other websites. External links must be displayed in a new window.

12. Since all the CSS styles are stored in ONE file (`style.css`), clearly **comment the groups of styles** in the external style sheet using the comment elements (`/* … */`).
    - For example:
      ```
      /* Menu Style */
      ```

Documentation (in PDF) (10%)

As well as your finished website, your group is required to produce a documentation of your website. The purpose of the documentation is a guidebook for your client that describes your website development process and the website designs.

Documentation Requirements

Include the following sections in your documentation:

1. **Cover page** – include website title, hosted website URL (it has to be related to your website title), group name, members' names and student IDs on the first page.

2. **Client overview** – give a brief overview of your client and the website topic.

3. **Web research** – research and analyze <u>three (3) websites</u> with similar client or purpose.
   - In this section, provides the website address (URL) of the websites that you researched.
   - Give justifications how each website inspired you on your website development in terms of content, style, design, layout, color, features, etc.
   - Include screenshot(s) of the websites to enhance your justifications.

4. Justify your **website development planning process** based on the six (6) major steps covered in Lecture 3 and 4. In your justifications, you must include:
   - Sitemap (one page only).
   - Wireframes (page layout sketches) – the placement of the main web page elements (i.e. header, menu, content, and footer).
   - Others (if appropriate).

5. Justify the **web design elements** such as fonts, color scheme, multimedia (if any) and other elements when appropriate (covered in Lecture 5 – 8) used in your website design.

6. **Final design** – include screenshot(s) of your website final design and justify its design based on the basic web design principles covered in Lecture 2.

7. **Member contributions** – identify all the group members and group leader. For each, describe his/her tasks/contributions to this assignment.

Documentation Formatting

There is no specific formatting required for the documentation but your final documentation must be clear and well-structured with a heading for each section. You may add design elements to your documentation to make it more interesting and attractive.

You may use any software (e.g. Microsoft Word) to produce the documentation but your final documentation must be in **PDF format**. Keep the file size to a minimum (less than 10MB). Clearly name your documentation as *YourGroupName_Documentation (e.g. TheAvengers_Documentation)*.

Presentation (5%)

Your group is required to demonstrate your **hosted website** through the standard browser, **Google Chrome** on your presentation day. Your PRESENTATION DAY will be on your **respective tutorial session in week 12** (late penalties are automatically applied).

Each group is given **5 – 10 minutes**. Each member MUST take part in presenting.

Your task in the presentation is to sell your website to your client and convince them to purchase your website. In the presentation, you are required to:
1. introduce your group,
2. briefly describe your client, the website topic, and its purpose,
3. justify your website designs (e.g. banner, layout, fonts, color scheme, etc.), and
4. explain your website features and how it meets the website purpose.

(You may prepare a visual aid (e.g. MS PowerPoint) to assist your presentation.)

Presentation marks will be given to <u>individual members</u> based on self-confidence, maintains eye-contact, clarify of speech with proper English, ability to generate interestingness of the website with audiences, and ability to response questions by the clients during Questions and Answers (Q&A) session. At the end of the presentation, there will be Q&A session for each member.

Submission Requirements

Each group is required to submit the assignment via the assigned **assignment submission link on Blackboard** (ONE submission per group) by **12PM on your respective presentation day** – compress ALL your files into a single zipped folder named *FST10011_YourGroupName_Group# (e.g. FST10011_TheAvengers_Group1)*. Make sure the file size is **NOT more than 10MB**.

The zipped folder MUST include the following files:

1. A completed and signed softcopy/scanned copy of the Assignment Cover Sheet.
2. All the website files in a folder named *yourgroupname*.
3. The documentation in PDF format and named *YourGroupName_Documentation*.