Swinburne University of Technology
Department of Foundation & Pathways (PAVE)

COS10024 Web Development

Assignment 1, TP 3, 2020

Due Date	Sunday 29ᵗʰ November 2020 at 23:59
Demonstration	Your tutorial: Week 7 (Session Two)
Contribution to Final Assessment	15%

Purpose of the assignment

An individual assignment to familiarise students with the techniques and skills involved in creating webpages using validated HTML5 and validated CSS; loading and testing the website on the server; and demonstrating an understanding of HTML5 elements and attributes, CSS selectors and properties and their proper use. Moreover, it is to provide students with an appreciation of the importance of the separation of structured content from presentation as discussed in the lectures.

To highlight this, the assignment is specified and evaluated in three sections.
- The development of validated HTML5 webpages.
- The development of validated CSS files to present webpages on various devices.
- The implementation of CSS animations.

> This is an Individual Assignment. *All work must be your own.* **Submissions are *automatically checked* for similarities. Unexplained similarities may constitute plagiarism. Carefully read the section on plagiarism in the Unit Outline before you proceed (including the section forbidding sharing your work with others).**

Note: *No JavaScript (JS) is to be used in this part of the assignment.*

Section One: HTML5 (40 Marks)

Create at least **THREE** web pages using HTML5 and with at least **one image on each web pages, three images in total minimum**. All images must be original, meaning you own those images.

The Information content on these webpages should be information about you. Please make sure to include:
- about your study Place (Swinburne University of Technology); (index.html)
- A description of your hometown; (hometown.html)
- About you; (about.html)
- Animations; (animation.html)

> You must call these files **exactly** by these names, otherwise the Tutor will not know they exist!

Website Folder Structure:

```
assign1/                          You must have this folder –case sensitive!
    index.html
    hometown.html
    about.html
    animations.html

    images/                        Folder for images for your page contents
    styles/                        Folder for style css files
    styles/images/                 Folder for images referred to by your css files Eg. Background
```

Page about your study place (index.html)

Create a web page about your University including brief introduction about your university, course offered, and map of the location.

Page about description of your hometown; (hometown.html)

Create a web page about your home town including brief introduction about your city, location map, favourite activities in your area, pictures of places and description etc.

Page about you (about.html)

This page will contain information on the following:

It could also include personal profile, such as resume, interests, or information that is related to you. This extra information gives you an opportunity to extend the techniques you apply in your assignment.

Information	HTML element to be used
Your name	Definition list
Student number	Definition list
Your tutor's name	Definition list
Course you are doing	Definition list
Photo of you < 100k	HTML figure element
Your Swinburne timetable	HTML table
A list of your favourite books, music, films etc.	Definition list
A **mailto** link to your student email.	

[IMPORTANT] All webpages must be fully validated against HTML5 without errors, on http://validator.w3.org or using Web Developer (Firefox add-on or Chrome extension).

The following HTML elements **MUST** be used in this assignment. Some will be used on all pages while others might only be used once.

- General elements o <head>, <title>, <meta>, <body>
- Structural elements o <header>, <nav>, <main>, <footer>, <aside> o <article>, <section>, <aside>
- Content elements o <h#>, <p>, <hr />
  - o <ul>, <ol>, <table>, <img> and <a>
- Form elements o <form>
  - o <input>
  - o <label>

[IMPORTANT] **The use of the form must fit the context of the web page.**
Form data should be submitted to:
http://mercury.swin.edu.au/it000000/cos10005/surveytest.php

Other HTML elements such as <div>, <span>, <blockquote>, <strong>, <em>, <fieldset> and more can be used as necessary and appropriate for the content.

A menu must be created on each web page that allows users to navigate through all the webpages on your website. This menu must be properly styled using CSS.

Please organise your HTML code properly and annotate the source code with comments as necessary.

Section Two: Basic CSS (40 Marks)

Develop **TWO** CSS files that style the web pages, one for a desktop and another for a mobile phone. The webpages must be styled to suit the corresponding device, e.g., the layout, font size and the sizes of the major components of the webpages.

Demonstrate a range of selectors, including but not limited to:

▢	element	e.g.,	h1 {}, p {}
▢	class,	e.g.,	.image {}, .highlighted {}
▢	id	e.g.,	#tbName {}
▢	grouping	e.g.,	h1, h2, h3 {}
▢	contextual	e.g.,	ul li {}
▢	pseudo-classes	e.g.,	:hover {}

Demonstrate the following groups of CSS properties:

- Menu   e.g., style a navigator that contains links to all web pages
- Web Typography   e.g., fonts, colors, text alignment
- Box Model and Visual Formatting e.g., border, margin, padding, width, height, background image
- Liquid Page Layout   i.e., page layout adapts as you resize the browser window

Use of other CSS selectors and CSS properties are encouraged, as necessary and appropriate for styling the webpages.

Please properly organise your CSS code and include comments within your CSS code as needed. e.g., /* banner style */.

Creativity is strongly encouraged in the web site design. Creative designs will be rewarded with bonus marks.

Section Three: CSS Animations (20 marks)

Implement 2 different CSS animations. There are many types of CSS animations. Take your pick and make sure they are applied to appropriate HTML elements. Feel free to use Google or any source of information you deem appropriate to look up the code you need to implement the CSS animations.

Create a fourth page named `animations.html` and incorporate it into the menu navigator. On this webpage, list the animations that you have implemented and provides hyperlinks to where the animations are implemented.

[IMPORTANT] All CSS files must be fully validated against CSS3 without errors, on http://validator.w3.org or using Web Developer (Firefox add-on or Chrome extension).

Assignment Submission

The assignment should be submitted as an individual work through CANVAS **(Electronic Submission)** and into the **mercury sever** on or before the deadline**.**

- Create a folder/directory "assign1" for your website files and folders. In folder "assign1", create a sub-folder "images" for images used for content and a sub-folder "style" for your CSS files.
- Compress folder "assign1" and all your HTML files, images files and CSS files into a zip file named "assign1.zip" and submit it through CANVAS.
- All deliverables must be submitted in this zip file.

Before submitting the assignment, please ensure that you have completed or considered the following:

- Check if you have fulfilled the requirements and avoided the deductions in the Marking Scheme
- Check the Canvas for announcements related to the assignment.
- The assignment is your original work. If your assignment is not your original work, your result will be zero marks for this assignment.
- Validate and test your webpages on the Mercury server. If your assignment cannot be fully validated or properly displayed on the Mercury server, penalties will apply.
- Ensure that you submit before the due time to avoid penalties.
- Make sure you contact the convenor before the due date, if you are having trouble in completing the assignment on time.

Marking Scheme

The assignment will be marked out of 100.

	Mark	Requirements	Deductions
HTML5	40	• All required HTML elements created (10) • At least 3 HTML pages of original content (5) • Webpages fully validated against HTML5 (10) • Source code properly indented, commented and organised (5) • Original photos used (5) • At least 3 images in appropriate sizes (5)	• Web pages not fully validated against HTML5 • Web pages not displayed properly • Not enough web pages • Lack of required HTML elements • Lack of required contents • Deprecated HTML elements/attributes used • Embedded or inline CSS • Links on web pages not working • Unoriginal contents • Lack of required images • Unoriginal images • Images too large or too small
Basic CSS	40	• All major components of web pages properly styled, e.g., \<header>, \<main>, \<footer> and \<aside> (10) • All required CSS selectors demonstrated (3) • All required property groups demonstrated. (5) • 2 CSS files, one for desktop and the other for mobile phones. (5) • Appropriate and fluid page layout. (5) • CSS files fully validated against CSS3 (5) • CSS code properly indented and organised (3) • CSS properties logically grouped (2) • Consistent styles for all web pages (2)	• CSS files not fully validated against CSS3 • CSS files not properly applied to web pages • Lack of required CSS file(s) • Not all major components of web pages properly styled • Inappropriate web page layout • Inappropriate contrast between foreground and background text colour • No major difference in page layouts for desktop and mobile phones • No comments or unclear comments • Lack of required CSS selectors • Inconsistent styles for different web pages
CSS Animations	20	▢ 2 different CSS animations implemented. (10*2)	▢ CSS animations do not work properly.
Total	100		