INFS7009 WT - ASSIGNMENT 1: BASIC WEBSITE CONSTRUCTION
Due Friday, Dec 13, 2024, at Midnight

PREAMBLE

1. Over the semester, you will be working in a group of two, even though this 1st assignment is an individual one.
2. This assignment 1 is worth 20% of the total marks for this subject. You are required to build your own website with raw HTML5, CSS, JavaScript and SQL. You are not allowed to use any packages such as Dreamweaver, Visual Studio or any other website building software. Neither should you make use of any external libraries or frameworks. The site must be created according to the required standards or specifications (see below for more explanation).
3. You need to use XAMPP (recommended for uniformity), or installation of Apache, PHP and MySQL (or MariaDB) separately.
4. Quality of the work, including such as the proficient and effective use of the technologies and techniques, code validation according to HTML 5 and CSS 3, ease of navigation, consistent and aesthetically pleasing look and feel across the site, will also be a major factor of consideration for the top grades.
5. You **must** submit your whole website (zipped together using zip) electronically, including the SQL script required to set up your database, and have the whole website set up properly on the above-mentioned web server, all by the due date. Please note that the submitted zip file should contain all the relevant data or information required to set up the live website.

REQUIREMENTS (20 marks)

1. **Basic Webpages and Content.** (6 marks)
   - Create a website of your own, consisting of at least a home page and some other interrelated pages, to demonstrate proper page linking like a menu, as well as those to be outlined below gradually.
   - **This site should be about Organic Food**: Sell organic and locally sourced food products.
   - One of these pages, or just a section of one of these pages, should be somewhat about yourself, the creator of this site, your former study and/or work experience and perhaps your career goal, if possible.
   - Include some transparent and non-transparent graphics, different text sizes and colours, some form of itemisation, at least one table illustrative of all the major table features, and various layouts using HTML5.
   - Please **DO NOT** use any Content Management System or any web authoring tools (other than a plain text editor like notepad++ or Atom) at this stage although you are free to make use of any image editors.
2. **Cascading Style Sheets.** (4 marks)
   - Use suitable CSS style sheets with their main features to organise the layout, as well as the look and feel of your whole website consistently.
3. **Forms, Queries, and Data Collection.** (8 marks)
   - There are 3 aspects in this section. The first is to have a proper form set up for the interface on a webpage, the second is to have proper **JavaScript** for the interactivity (e.g. clicking a button or making an item selection or directly submitting a form, will fire up a database query), and the third is to make use of a **PHP script** to query the database to return/display the results.
   - Create a form so that a user can select an *organic food* to list all the relevant *reviewers and their respective ratings* described either in organic_food.sql, or in a similar database of

your own if you wish to use different or more features or fields in the database. Please read the comments inside this SQL script as you may wish to modify the database name or the like there. This simple database is to keep track of which reviewers have been assigned to review which food for the customer. For simplicity, a *food* will be recorded for its name. The review *report* should contain an integer rating value between 1 and 5 (inclusive) and the date on which the review report is completed.

- There should be a hyperlink or a button, somewhere on the form, that would list **all** the records for at least one of the tables in the database (that table should be the table that you can enter data dynamically via your form here).
- There should be at least a way to collect some data on organic foods, or reviewers and their respective ratings on the website, and have the data added to the database in **MySQL** so that these new data will be automatically available to the future database queries.

4. **Exploratory Challenges.** (2 marks)
   - Add one of the following aspects or features to your website that is not explicitly stated as the requirements in the above. These aspects or features are
     - A fancy or state-of-art navigation scheme for your site, making more sophisticated use of CSS.
     - An additional JavaScript application, making use of DOM, to improve the interactivity or data processing.
     - A facility on your website to modify an existing table record in the database.
   - Student must **explicitly state** which part of their submitted work belongs to this subsection. Otherwise, their *Exploratory Challenges* will be considered absent.

5. **Overall Quality and Professionalism.** (20% of the total marks)
   - About 20% of the total marks will be awarded for the top quality of the submitted work as well as to the professionalism demonstrated there. These are typically expected to go beyond the minimal features already explicitly stated in the above subsections of REQUIREMENTS. The
   - overall quality can include, among others, the look and feel, the ease on the use of the site, as well as the professional/proficient design and implementation throughout the student work.
   - Students may be recommended to demonstrate some of their **most impressive features** during the class of the submission week, if time permits, but this part is subject to changes or cancellation.

SUBMISSION

- Go to the physical subdirectory of root of your website, say, c:\xampp\htdocs\assignment1, zip everything within this directory and its subdirectories into a single file wt12345678.zip where "12345678" is to be replaced by your student number.
- This zip file should also include an SQL file yourDB.sql which can be used to set up your database.
- Zip (don't use the rar compression format) all the relevant files into a single zip file, and then upload it via the submit button on the unit website. One mark may be deducted if the submission is made via the rar compression. Each student must keep the submission receipt, which will be automatically generated after each successful submission.
- You must also have your whole website set up on your machine. If you don't have this set up correctly, all your work related to the web server, PHP and database will receive no marks.
- Late submissions will attract a daily incremented late penalty of 10% per day.