Web Development
INS2053

Project

Due Date	Exam date của phòng đào tạo
Submission Method	Trên phòng thi Team và email:tungnt@isvnu.vn
Contribution to Final Assessment	60%

Purpose of the assignment: It is an individual assignment that provides an opportunity to practice again techniques and skills involved in designing webpages using HTML5 and CSS. JavaScript will be used to validate user input data before they are submitted to the server for processing. Moreover, JavaScript will be used to add more interactivity to the webpages.
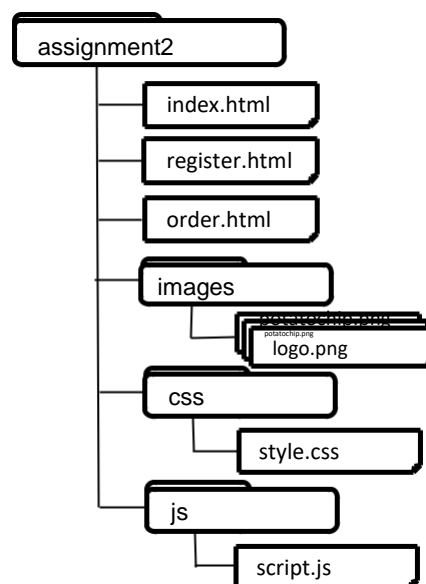
Requirements and Specifications

The assignment requires that you develop a website for Bruno Pizzeria, a pizza store. The director of Bruno Pizzeria, Mr. Bruno, is interested in developing a website that allows users to register and place orders for pizzas online.

Task 1: Website Design

After several meetings with the Mr. Bruno, it is agreed that 3 webpages will be developed, the home page, the registration page and the order page.

1.1 Folder Structure

The directory structure shown in Figure 1 is to be created.

Figure 1: Directory structure
Additional files may be added depending on your own design.

1.2 Website Structure

Choose your own webpage structure. A fully functional navigator must be provided on each webpage. Users should be able to access all 3 webpages using the navigator.

1.3 Webpage Layout

You need to design an appropriate webpage layout for Bruno Pizzeria. Following structural elements must be used:

```
<header>
<nav>
<main>
<footer>
<aside>
<article>
<section>
```

You are free to use other structural elements, e.g., `<div>`.

Task 2: Website Development

2.1 HTML 5 Webpages

The three webpages must be developed using HTML5. All pages must **not contain any deprecated elements/attributes.** The content requirements for each webpage are as follows:

Page `index.html` is the homepage of the website. It should provide introductory information about Bruno Pizzeria, its history, menu, location, available types of pizzas, etc. Feel free to refer to real-world pizza store websites for example. Information about at least three types of pizzas must be provided, with at least three original or explicitly referenced images.

Page `registration.html` is for users to register. A form must be provided, which contains different input elements that allow users to enter registration information, e.g., username, password, gender, email, favourite pizzas, etc. The following input elements must be used:

- o label
- o textbox
- o password
- o radio button
- o checkbox
- o select list
- o submit button
- o reset button

Page `order.html` is for users to place orders. A form must be provided to allow users to enter the following data to place an order:

- o Delivery or pickup
- o Delivery address (only if delivery is selected)
- o Billing address
- o Contact number
- o Email for receipt
- o Pay on pickup or online
- o Credit card information (only if pay online is selected)

Choose the right types of input elements for different required information in the forms, e.g., a textbox for username and a group of checkboxes for favourite pizzas.

Other input elements can be used in your forms if necessary and appropriate for the content. Set the `method` attribute of the form to `POST` and the attribute `action` to: http://mercury.swin. edu.au/it000000/cos1 0005/regtest.php

All webpages must be fully validated.

2.2: CSS Files

At least one CSS file is to be created to style all three HTML pages. Use any CSS properties you deem necessary and appropriate for the presentation. The following CSS properties must be used:

color

font-family

background-color
background-image
border

text-shadow
box-shadow
margin

padding
float

The following types of CSS selectors must be used:

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 {}*

> Other CSS properties can be used. You are encouraged to be creative in your design. You will be marked not only on the use of the abovementioned CSS properties and CSS selectors, but also on how professional, beautiful and creative your webpages look.
>
> Make sure the styles of all three webpages are consistent.
>
> You CSS file(s) must be fully validated.

2.3: JavaScript File

A JavaScript file must be created for the registration and the order pages to validate the input data before forms are submitted to the server for processing. The JavaScript must

check that none of the required input fields are blank.
check that the password is at least 8-character long;
check that the postcode is 4-digit.

show an alert or inline error messages to display all the errors in the input fields;
allow the form to be submitted only if all the input data are valid.

Task 3: Website Enhancement

3.1 Features

Implement the following 3 features using appropriate HTML, CSS and JavaScript:

Highlight the menu item in the navigator corresponding to the current webpage.

In page order.html, create a checkbox with label "same as delivery address" somewhere appropriate near the fields for billing address. When this checkbox is checked, the fields for billing address will be filled with the delivery address automatically. If the delivery address is not completed when this checkbox is checked, display an alert or inline message: "Please enter your delivery address first".

Allow users to choose from three types of credit card: Visa, MasterCard and American Express. Based on the type of credit card, limit the length of the credit card number, 16 digits for Visa and MasterCard, 15 digits for American Express.

3.2 Features Page

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

Submission

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

Check your assignment against the attached marking scheme.

Check Canvas for announcements related to the assignment;

Ensure that all HTML and CSS files can be fully validated;

The assignment is your original work. If your assignment is not your original work, your result will be 0 marks for this assignment;

Provide references for all third-party contents used on your webpages;

Test your web pages on the Mercury server. If your assignment cannot be displayed on Mercury properly, penalties will apply; and

Make sure you contact your convenor before the due date, if you are having trouble in submitting the assignment on time.

The assignment should be submitted as an individual work through Canvas on or before the deadline**.**

- Compress all your HTML, CSS, JavaScript and image files into a zip file named "wd_assignment_2.zip" to submit via Canvas.
- You can submit the zip file for up to 5 times through Canvas and the latest submission will overwrite the previous ones.
- Make sure you keep a copy of the assignment cover sheet.

Marking Scheme

The assignment will be marked out of 100.

		Mark	Requirements	Deductions
Website Development	**HTML Pages**	20	Used all required HTML elements (4) At least 3 HTML webpages (5) Webpages fully validated against HTML5 (5) Source code properly indented and organised (2) Source code properly commented (2) At least 3 pizza images (2)	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 Lack of required images Images too large or too small
	CSS	20	All required CSS properties used. (3) All required CSS selectors used. (3) Appropriate and fluid page layout. (2) CSS files fully validated against CSS3 (2) CSS code properly indented and organised (2) CSS code properly commented (2) Consistent styles for all web pages (2) Professional, beautiful and creative webpage style (4)	CSS files not fully validated against CSS3 CSS files not properly applied to web pages Inappropriate web page layout Inappropriate contrast between foreground and background text colour No comments or inadequate comments Lack of required CSS selectors Lack of required CSS properties Inconsistent styles for different web pages Webpage style too simple
	JavaScript	40	No errors in code. (10) Fields validated as required. (20) Form submitted only when entered data are valid. (2) All error messages displayed in an alert or as inline messages. (4) Code properly indented and organised. (2) Code properly commented. (2)	Fields not validated as required. Form submitted with invalid input data. Error messages not displayed as required. No comments or inadequate comments. Used inline or embedded script
Website Enhancement	**Highlighted Menu Item**	5	Feature properly implemented (5)	Feature not properly implemented
	Automatic Input of Billing Address	10	Feature properly implemented (10)	Feature not properly implemented
	Adaptive Credit Card Length	5	Feature properly implemented (5)	Feature not properly implemented
		100		