IN3033 Markup Languages – Semester Project (Assignments 1 and 2)

Assignments 1 and 2 will each involve work on a single capstone project for the course.

Your project will be to 'reverse engineer' an existing website. That means that you will re-code the website from scratch using only the HTML and CSS techniques covered in our course this semester. You will mimic the design, colors, layout etc of the existing site, and use any of the graphics from the site, but you must write the HTML and CSS code to accomplish this yourself. You must also limit yourself to the techniques and methods presented in this course.

Assignment 1: Website Selection, HTML coding and CSS Layout (5% of semester grade)

1. Select the website you plan to recreate. The website you choose must meet the following criteria:
    a. It must be currently online and accessible via the www
    b. It must have a sufficiently complex layout. Examples of websites with reasonably complex layouts include the sites listed in the "Layout Analysis and Wireframing" exercise from Module 3.
    c. It must have multiple pages with at least two different layouts. Your final website for this project will be a minimum of 5 HTML pages, so the site you choose must have enough content for at least 5 pages. There must be at least 2 different layout designs for these pages. Example: Amazon has one look for their home page, another for pages that show multiple product options, and another for the page that shows a single product.
    d. **NOTE: You must get your website selection approved by me prior to completing and submitting Assignment 1. Students will not be allowed to select the same website as another student, so submit your choices to me as soon as possible.**
2. Once your website selection is approved, create 5 HTML pages with the page content properly coded in HTML5 (do the HTML first, before starting with CSS). One page must include an HTML form with a minimum of 5 input fields of various types (text, radio buttons, checkboxes etc....) plus a submit button (see Module 4 for details on HTML forms)
3. Write the CSS code for the layout of your pages. There must be at least two separate layout designs. No other CSS is required at this time.

Submit the following:

- The URL for the website you have chosen to reverse engineer
- 5 html pages properly coded in HTML5 that contain most of the content for your pages (text and images)
- External CSS files for each page layout you create. You need a minimum of two distinct layouts for your site, so at least two separate CSS layout files should be submitted.
- At this stage you do not need to do any formatting or styling of your content. Your CSS should be limited to implementing your layouts.

Due Date: Friday, Nov 26th

Assignment 2: Complete Responsive Website (20% of semester grade)

For Assignment 2, you will complete your project creating a fully responsive website that closely mirrors the design, style and functionality of the original website.

The final version of your website must conform to the following specifications:

- Consists of 5 separate HTML files. All pages must be linked together so that it is easy to navigate from one to the other.
- Uses appropriate and syntactically correct HTML5 code throughout.
- Uses CSS3 for all formatting, layout and design. External stylesheets only.
- Includes a styled navigation menu that includes mouse-over effects (no multi-tiered menus). All pages should be linked together via the navigation menu.
- Pages must be designed with a fluid layout, conform to responsive design guidelines and display well on screen sizes from mobile portrait up to desktop - media queries are required.
- Responsive Design: Your code must include at least two media queries that will adjust the site formatting and/or layout according to the needs of the window size.
- The site must integrate the SlickNav mobile menu plugin, and it should become visible at an appropriate window size
- All page layouts must use CSS Grid with Template Areas (Chapter 10 of the textbook) as the primary layout technique.
- One page must include an HTML form with a minimum of 5 input fields of various types (text, radio buttons, checkboxes etc....) plus a submit button. Your form should have some CSS styling applied to it to match the look of the website, and must include a focus effect on the input fields (Chapter 13).

File and folder organization:

- All HTML files must be at the root level.
- Your site must have the following subfolders:
    - 'images' – contains all pictures and graphics used on the site
    - 'styles' – contains all CSS files
    - 'js' – contains the JavaScript files needed by the SlickNav menu

Academic Integrity:

It is expected that all students will submit a project that is their own work. Using pre-made website templates is forbidden. Using another student's code or design is forbidden. All code must be your own. You are copying the design of an existing site, but all the code just be written by you and must align with the coding techniques covered during the course. Use of techniques/elements that were not covered will be a flag for academic integrity violations.

Submit a single .zip file that contains your complete site following the file and folder organization specified above.

Due Date: Monday, Dec 13th 2021 by 12 noon. No Extensions will be granted and late submissions will not be accepted as final marks are due that week.