Learn To Code

Capstone: Build an E-commerce Website

Git, HTML, CSS and Bootstrap

Description

In this project, you will use what you know about HTML, CSS and Bootstrap to create an e-commerce website. You can sell products or services, whatever seems fun and interesting to you.

The website will include five pages (listed below) to be complete. You will also be required to include certain HTML elements on your site including but not limited to HTML tables, HTML Forms, images, lists, semantic HTML elements, and Bootstrap components.

Page Requirements

Your website must include the following pages and listed features in order to be considered complete:

- **A home page**
    - Must have at least one stand-alone image
    - Must have at least two paragraphs of text
    - Must incorporate a bulleted or numbered list with at least 2 list items

- **A user registration page**
    - Must have an HTML form with user name, password, password confirmation and email fields
    - Must have a set of radio buttons with responses to the question "How did you hear about us?"
    - Must include appropriate HTML validation attributes

- **A user login page**
    - Must have an HTML form with user name and password fields
    - Must have a remember me checkbox
    - Must include appropriate HTML validation attributes

- **A products and/or services page**
    - Must list at least 6 products or serviced that are offered with a button that allows them to be ordered or added to a cart
    - Each product/service must be described using a Bootstrap Card and each must contain an image

- **A checkout page**
    - Must have an HTML form with appropriate input fields, a select field, and a submit button for purchaser information
    - Input fields must include appropriate HTML validation attributes (ex: required, max length, etc)
    - Must contain an HTML table displaying at least 3 rows of sample data for items in the cart

Other Requirements

Your website must also meet the following requirements:

Project Structure:

- Your code must be in a public GitHub repository
- You should use an appropriate directory structure (`css`, `images`, and `scripts` folders)
- File names should be in all lower case with no spaces

Design

- You must have a consistent look and feel throughout the site, along with intuitive navigation
    - This can be accomplished by your theming choices and by use of a consistent header, a navbar, and (if desired) a footer across your pages
- It must exhibit responsive behavior with breakpoints for desktop and mobile browsers
    - You can accomplish this using the Bootstrap grid system and navbars
- You must use a custom media query to change the way the one page looks in a desktop vs mobile browser (suggestion: hide/show elements)
- You must use appropriate semantic HTML elements such as `<header>`, `<nav>`, `<main>`, `<section>` and others on your pages
- You must override one or more Bootstrap defaults (colors, fonts, etc) using custom CSS that you write

Technical Quality

- Your HTML and CSS should be well formatted and include comments
- Your HTML and CSS code must pass validation at `https://validator.w3.org/nu/` and `https://jigsaw.w3.org/css-validator/`
- There should be no errors in the browser's Console tab

Repository

- You must use Git branches appropriately
- It must contain an appropriate Git commit history
  - ***Minimally***, you should have a commit for each meaningful piece of work completed
- It must contain an informative README that describes your project, its implementation, includes images of ***each*** of the site's pages, and describe/show one interesting piece of HTML/CSS that you wrote

Class Demonstrations

Each student will be given 10 minutes to demonstrate their site to the class on "project demonstration day". During this time, you will:

- Show off your website and the pages within it
- Describe/show one interesting piece of HTML/CSS/Bootstrap you wrote
- Answer questions from the audience if time permits