

# CS4WW3 Assignment 2

## Online Store

**Due Date: Feb 23rd**

### Objective

This group assignment (2 persons/group) will expose you to the following web technologies: HTML/HTML5, CSS and JavaScript.

### Description

Your task is to develop additional features and web pages on top of assignment 1.

- (1) jQuery: apply jQuery library on the welcome page and contact info page. The application method is up to your discretion. You may find plenty of examples in the W3schools tutorial site.
- (2) Form validation: User registration and login page data must be validated. You may make all fields mandatory to insert for users. Also, you should set meaningful rules for password and username setup (for instance, password must be at least 8 characters long, must start with a character, must have at least 1 digit and 1 uppercase etc.; username should be at least 6 characters long and must start with a letter etc.). User name, city, province (Canadian provinces allowed), street name cannot contain digits. Email, Phone# and Zip Code (Canadian format) must be validated. Generate/display appropriate messages in case of wrong data input or error. Help box may be used to accomplish this task. You should use pattern matching wherever possible to make JavaScript code efficient.
- (3) Data passing: you should be able to pass validated username and password from registration page to login page i.e., if no error is generated in the registration page for inserted data, then the username and password must be able to be retrieved in the login page and matched with the newly inserted username and password in the login page to generate a login success message. The data passing can be accomplished via JavaScript cookies or HTML5 local storage feature etc.
- (4) New catalog page: You will have a new catalog html page where the same information from assignment 1 will appear in addition to the thumbnail images for the products. Remember you are selling at least 15 products. While clicked on the thumbnails, larger (original) images will be displayed in a professional manner. You should add check boxes beside each product for the user to select for purchase that will be used in the next assignment. This page will replace the xml page you had for assignment 1 i.e., all the pages will have link to this new html page instead of xml page.

- (5) Search box: the new html catalog page will have a search box which will allow the users to search any product via price/title/description/any text pattern etc. You should use pattern matching wherever possible to make JavaScript code efficient. If a match is found, the user should be taken to the corresponding product.
- (6) User Review: this is a new html page where the user will be able to rate and write review on the website. The review will be immediately available to view in graphical format. Canvas element may be used to accomplish this task. This page will have links to all other html pages and vice versa.
- (7) Contact us page: this html page will have contact info of the online store. This page will have links to all other html pages. Also, the page should list all the group members' full name and id working on this assignment.
- (8) CSS: you should have an external css file that you will apply to all the html pages for presentation. Your pages should have consistent/professional look in the terms of navigation, heading/background/text/font size/color contrast etc.
- (9) Browser issues: you should test your complete site with at least 2 browsers: IE/FX/Chrome. You may display a note in the welcome page which 2 browsers (with versions) your site works the best; whether cookies need to be enabled etc. Think of client's convenience. Its wise to test with different display settings/screen resolutions.
- (10) Link Paths: try not to hard code any path with drive info. You should use relative Path so that your files are portable without changes! Marks will be deducted if your site is not portable.

\*\*\*You will be evaluated based on the creativity and usability of your interactive features.

Late assignments will be marked with a **late penalty of 20% per calendar day**. However, no assignment will be accepted if more than 3 calendar days late.

## Deliverables

### Notes

1. Ensure your code is properly documented with comments so the TA can clearly understand what your code is doing and is easy to read. Marks will be allocated for style and readability.
2. Your website will be evaluated based on satisfying the stated requirements, creativity, usability, and robustness.

Host your web pages on the CAS undergraduate servers ([ugweb.cas.mcmaster.ca](http://ugweb.cas.mcmaster.ca)) under your own accounts. Ensure the file permissions allow for everyone to read your files, and visitors can visit [ugweb.cas.mcmaster.ca/~yourMACID/index.html](http://ugweb.cas.mcmaster.ca/~yourMACID/index.html) to view your online store.

## Submission

All files are to be submitted using the Avenue system. Submit the following files (with the indicated names) zipped into a single file:

1. Your .html and css files
2. Your Javascript (.js) files (and any .json files or .txt files used to implement the search feature)
3. Your Image files
4. A file named asg2.pdf containing the following:
  - Your group members' name and student number
  - Give the URL for your online store website
  - Brief explanation of how the search feature is implemented
  - Any special instructions TA might find helpful.