

Assignment 4

Important Notes:

- This is an individual assignment.
- I will be checking for borrowed or copied assignments. All work is to be done from scratch, you may not use any templates or other assistances.
- This assessment is out of 70 marks total.
- This assignment is to evaluate your server-side programming (PHP) skills for creating sessions to maintain state for websites and AJAX form submissions.

Tasks:

In this assignment, you are to develop a web application for an online store. The type of store that you design, and its products and inventory is left to your discretion.

1. HTML and CSS for static content (6 marks)

- The front end must collect all the information needed to make a sale to the customer.
- At least 2 products should be available for purchase. The application's business logic must handle the products correctly.
- HTML and CSS for login page.
- HTML and CSS for all orders page.
- HTML and CSS for create shop managers page.
- HTML and CSS for logout page.

2. PHP and MySQL– AJAX form submission and server-side programming:

Note: You have to submit the shopping form using AJAX only and write server-side code only for form processing and other requirements mentioned below.

The application should support the following:

– Shopping form page:

- No validations required.
- Submit form using AJAX only. (4 marks)
- Generate a receipt to give to the customer, including all the information entered by the user and the products bought. Use only server-side scripting for calculations and processing the form and AJAX to display the receipt. (4 marks)

- Calculate and include sales tax for **each** province/territory in Canada. In the receipt, display the tax based on the province selected by the user. **(2 marks)**
- Save all the form data in a database table. **(4 marks)**
- **Login page:**
 - Admin/shop manager should be able to enter username and password to login to the system. The system should remember the user that has logged in. **(8 marks)**
- **Logout page:**
 - The user should be able to logout of the system. **(2 marks)**
- **Orders page:**
 - Admin/shop manager should be able to view all the orders received. **(5 marks)**
 - Formatting of your choice for the display of orders. Make sure that the format is user friendly and improves user experience. **(2 marks)**
 - The orders page should only be accessible after logging in as admin or shop manager. **(3 marks)**
 - If anyone tries to access the orders page without logging in as admin or shop manager, they should be logged out and redirected to the login page. **(2 marks)**
- **Create shop managers page:**
 - Admin should be able to create shop manager users. **(5 marks)**
 - Create users page should only be accessible after logging in as **admin**. Shop managers should not be able to create new shop managers. **(5 marks)**
 - If anyone tries to access this page without logging in as admin, they should be logged out and redirected to the login page. **(2 marks)**

3. Video demo explaining your code and showing the final execution of the assignment.

Make sure to showcase all the requirements mentioned above properly.

For the video demo, you are not required to use your camera, but you can if you want. You are only required to record your screen and your voice explaining the solution. **Please submit .mp4 files only.** You can use Zoom/PowerPoint for doing that, but you can use any other software for recording the video too if you prefer another software. **(10 marks)**

4. Programming Style, Standards and overall completion of the tasks. (6 marks)

It is a good idea to practice conforming to a set of programming standards. Refer to the posted summary of the IT Standards posted in IT Programs > General Resources.

You can choose the design, fonts and colors as per your preference as long as you fulfill the minimum requirements mentioned above. You can name your online shop as per your liking and the product names too.

Submissions:

To submit this assignment:

1. Place all of your code and database export into a single folder. Zip this folder and submit the zipped file to eConestoga. No cover sheet is required for this assignment. A good way to make sure everything is correct; is to unzip the file you are submitting on a different location on your computer and making sure everything works.
2. **Upload the video explanation separately from your code zip file.** Please do not zip your video with the code. You may have to make a second submission for that as the dropbox only allows you to submit one file at a time. **Submit .mp4 files only for the video.**

Note: You can submit multiple times if you want. Please mention in comments which submission to evaluate. Also note that if you resubmit after the due date, late penalties apply as per your Program Handbook.