QSCU Merchandise Store

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1. Description

The outcome of this project will be an online store to sell merchandise for UBC Okanagan's Quantitative Science Course Union (QSCU).

2. Layout Document

Refer to PDF files attached.

3. Site Map

https://www.gloomaps.com/hwAbsYmEQe

A PDF version of site map is located in our GitHub repository.

4. Logic Process

4.1 User Engagement

The user will be able to navigate the website, add products to their cart and view their cart without logging-in however, the user must sign in to their account to proceed with the checkout process.

Once the user logs into their account using the standard login portal located on the right-hand side of the header of any given page., they will be able to access and modify their account through the "My Profile" tab. This will give them the option to: Modify their email. change password, change profile picture, add billing/shipping address and more!

The user will be able to sort items by category, search items by keywords, add items to their cart, review cart, and checkout. It is important to note that their cart will remain persistent as the user logs out and logs back in.

After purchasing an item, users will receive an email summary of their recent order and be encouraged to leave a review and rating on the item(s).

4.1.1 Dynamic changes

These are all the dynamic changes that occur through the user's perspective.

- ➢ Top right, "My Profile" button will be dynamic; if the user is not logged in, it will show "Login" and will be linked to the login.html file. Once the user has logged in, it willchange to "My Profile" which will link to a file that will be created called profile.html
- ➢ The column on the left, "Categories" will link to a categoryPage.html which will change depending on the product
- ➢ Once the user clicks on the product title or picture, it will take them to a singleProduct,html page where user will be directed to a page with an enlarged version of the product image, a detailed description of the product and reviews and ratings left by fellow users.
- ➢ User will be able to click on the add-to-cart button (located on the right side of products in the category page and in the middle of page of singleProduct page) and the item will appear in their cart, however they must be logged in to check out their products.
    - ○ Once a user clicks on the add-to-cart button for any given product, there will be a number located right next to the cart icon that will show how many items are in their cart
- ➢ On the singleProduct page, once the user clicks on the "write a review", there could be 2 different options:

    a) If the user is logged in already, there will be a pop-up that asks the user for a review title, rating and review description

    b) If the user is not logged in, the pop up will require the user to log-in to their account and after logging in, they will prompt with another pop-up that asks for a review title, rating and review description

4.2 Admin Engagement

Admin will log into their account through the standard login portal, Admin users will be able to access and modify user profiles through the "Admin List" page. This feature will allow the admin to reset forgotten passwords and give admin privileges to an existing user. The admin also has the ability to delete unrelated reviews and ban users who do not follow the TOS (Terms of Services) of shop.qscu.org.

The admin privileges will also include the ability to add, modify and delete products; allowing the admin to update store inventory, track volume of items sold and generate a sales reports.

4.2.1 Dynamic changes

Dynamic changes that occur through the admin’s account:.

- Top right, “My Profile” will be dynamic, if the admin is not logged in, it would show “Login” being linked to the login.html file. Once the admin has logged in, it would change to “My Profile” which will link to a file that will be created called profile.html

5. Static Design

5.1.Examples of Each Page

Refer to GitHub repository.

6. Forms: Login, Sign-up & Checkout

6.1 Client-side Validation

6.1.1 Client-side Validation: Implementation

Please refer to JavaScript client-side-validation.js, checkout-validation.js files and the login.html and checkout.html files in the GitHub repository.

6.1.2 Client-side Validation: Summary

For client-side validation of the login form, the following measures were taken:

- For all input fields, the required attribute introduced with HTML5 was used to ensure that the user entered a non-white space and non-null value into each required field.
- For the email field, the type attribute of the input tag was set to “email”. This ensured that the input from the user was in a valid email form.

For client-side validation of the sign-up form, the following measures were taken:

- For all input fields, the required attribute introduced with HTML5 was used to ensure that the user entered a non-white space and non-null value into each required field.
- For the email field, the type attribute of the input tag was set to “email”. This ensured that the input from the user was in a valid email form.
- To validate the password, the user has to enter in their password twice and the two password entries must match

For client-side validation of the checkout form, the following measures were taken

- For all input fields, the required attribute introduced with HTML5 was used to ensure that the user entered a non-white space and non-null value into each required field.
- For the credit card number field, the user’s input must be a non-negative value that is a minimum of 14 digits and a maximum of 19 digits.
- For the CCV field, the user’s input must be 3 digits and non-negative.
- For the credit card expiry date field, by setting the type property of the input tag to “number” ensures that the user does not enter any non-numeric characters. The user’s input is checked to ensure that it is exactly 4 digits. The first two digits are checked to ensure that they are valid month (value is between 1 and 12 inclusive).
- The radio group used to select shipping address has the radio button for selecting the billing address as the shipping address checked by default to ensure that a radio button is always checked when the form is submitted.
- If the radio button to select a different shipping address then the billing address is selected, then a new part of the form will become available to the user which contains fields to enter a new address. However, the required attribute is not able to be used as these fields will not always be filled.
    - To check that these fields are filled if this new part of the form becomes available, a regular expression to check for a non-whitespace characters and a check to see if the input field was empty were used to determine if the user’s input is valid. If it is not, the user is sent an error message via an alert with details regarding why input is invalid.

6.2 Client-side security

6.2.1 Client-side security-Implementation

Refer to login.html and checkout.html files in the GitHub repository.

6.2.2 Client-side Security: Summary

For both the login and sign-up forms, the input fields for the passwords all have the type attribute equal to “password”. This prevents the password from being viewed in plain text as the text is now displayed as a single character (a black circle).

7. Deployment

http://cosc360.ok.ubc.ca/46418166/src/home.html
http://cosc360.ok.ubc.ca/46418166/src