

Online Glass Store Design

**University of British Columbia Okanagan
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1.0 INTRODUCTION

1.1 Purpose of the document:

This document describes what we will do to develop this online glass store from follow aspects: Domain assumptions, data model, and what web interface we will be using.

1.2 Mission Statement:

Our mission is to develop a online glass store with attracting layout design and content that will promote our user keep browsing on it, and eventually increase the chance of purchasing.

Also, we will be putting energy on creating a safe, simple, and satisfying shopping experience for our user.

1.3 Executive Summary:

As the development of smart devices and reachability of Wi-Fi, people tend to spend more and more time on looking at screens. If we observe carefully, it is common to see people using their smartphones on bus or skytrain, using their laptop in library or starbucks, or even playing their Nintendo Switch on toilet. Undeniably, these electronics have made our life more convenient than ever. However, our eyes won't be too happy about it. Therefore, we have determined that a glass shop will create profit for us, and we would like to make it online to eliminate rent.

On our online glass store, user can sign in to our store to become a member. As a member, user can have special discount on his/her birthday and will be able track their packages. Each member's information will be securely stored on our database and will be only used for change password and special discount.

When browsing the store, other than the item choose by the user, several similar items will listed at the bottom of the page as well, labelled "People who buy this glass also like", in order to encourage the user to view more items.

When user is paying for the item, a process map will show on the top of the page, to guide the user finish the payment without any confusion.

For all the forms user might fill out, the forms will be checked for validation, before they are stored into database. We hope this will help the user leaves correct information.

1.4 Implemented Features:

Final Overall System Features	Possible Point s	Complete or not	Code Files
Hosting			
Running on cosc304 server	2		

OR: Running on external hosted server	5	√	On cosc360 server
Main/Home Page			
Search for a product by name	1	√	Mainpage.php
Browse products by category	1	√	Mainpage.php
List products (by search/browse)	1	√	Browsingpage.php
List products with image	2	√	Browsingpage.php
Page header with menu	1	√	Mainpage.php
Page header shows current logged in user	1	√	Mainpage.php
Dynamic products on page based on sales	2	√	Mainpage.php
Product recommendation based on user	4		
Shopping Cart			

Add to shopping cart	1	√	Addcart.php
View shopping cart	1	√	Cartcheckout.php
Update quantity (with data validation)	2	√	Addcart.php
Remove item from shopping cart	1	√	Addcart.php
Improved formatting/UI (e.g. in header bar)	1	√	Cartcheckout.php
Cart stored in database between sessions	3	√	Logout.php/processlogin.php
Checkout			
Checkout with customer id	1	√	Checkout.php/order.php
Checkout with payment/shipment info	2	√	Checkout.php/order.php
Checkout with data validation	3	√	Checkout.php/order.php
Inventory tracking per item	2	√	Checkout.php/order.php

Inventory tracking by store/warehouse	3		
Multiple shipments per order supported	3		
Calculate taxes/shipping (by items/state)	2	√	Checkout.php/order.php
Product Detail Page			
Product detail page and item description	3	√	Productpage.php
Product detail has an image	1	√	Productpage.php
Product detail has an image from database	4		
User Accounts and Login			
Create user account page	3	√	Signin.php/newuser.php
Create account with data validation	3	√	Signin.php/newuser.php
Login/logout	2	√	Logout.php/login.php/proc

			esslogin.php
Register user/Forgot password			
email	4	√	Forgotp.php/forgotpform.p hp
Page listing all orders for user	1	√	Customerpage.php

Product Reviews			
Ability to enter a review on a product	2	√	Addreview.php/ productpage.ph p
Display product review on product detail	1	√	Addreview.php/ productpage.ph p
Restrict to one review per user on item purchased	2	√	Addreview.php/ productpage.ph p

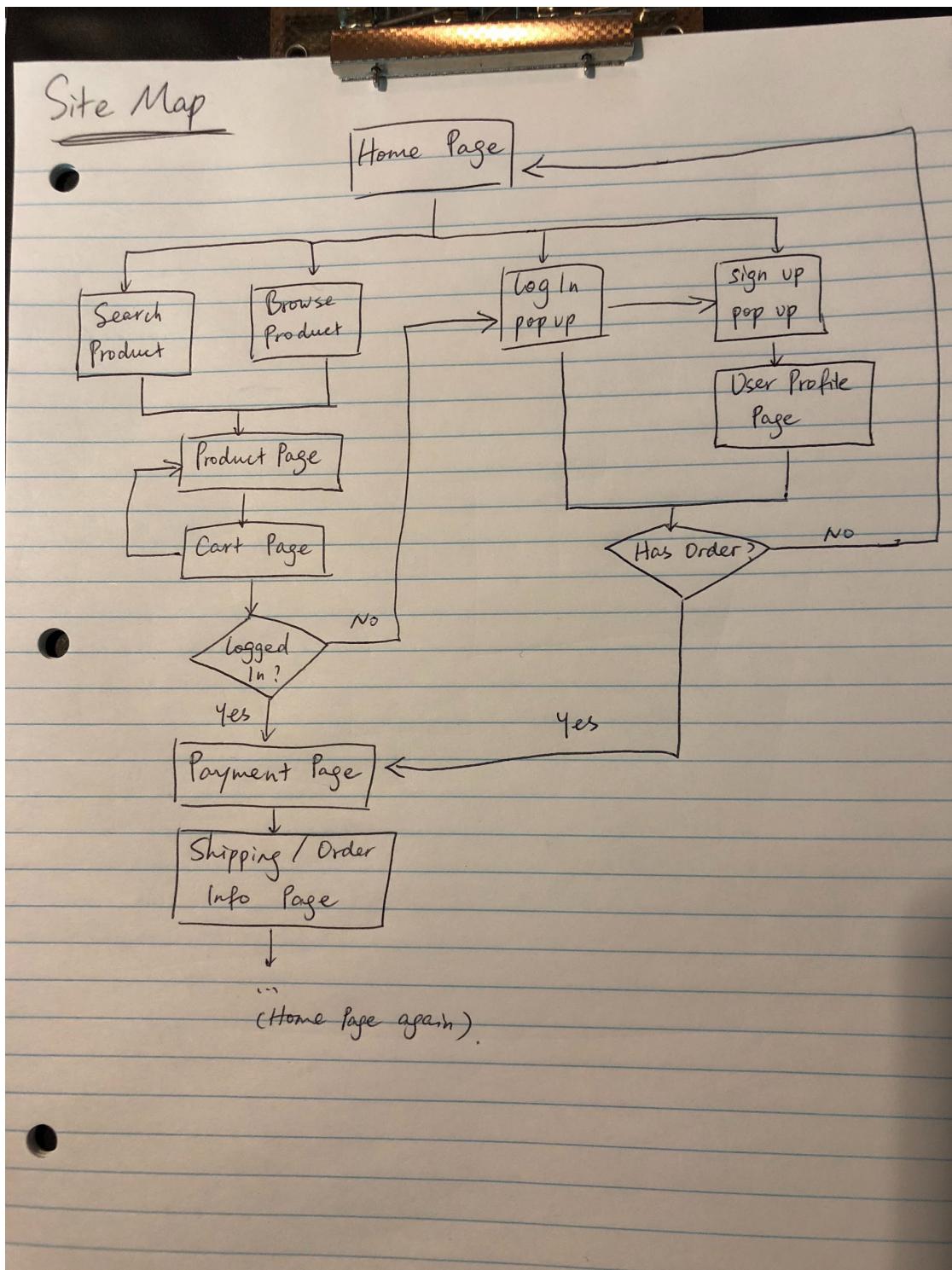
Administrator Portal			
Secured by login	3	√	Login.php/processlogin.php
List all customers	1	√	Manager.php
List report showing total sales/orders	1	√	Salesreport.php
Report with a graph	3		
Add new product	2	√	Addproduct.php
Update/delete product	2	√	Deleteproduct.php/addproduct.php
Change order status/ship order	1	√	Updateorders.php
Upload a photo to file system for product	2	√	Addproduct.php
OR: Upload a photo to database for product	4		
Database restore with SQL script	2		

Add/update warehouse, customer	2	√	Updatecostumer .php
Database System/General			
Implement some validation using triggers	2		
Use AJAX for some pages	4		
User interface and navigation/usability	Up to 5	√	
<i>Others (your suggestions)</i>	Up to 5		

1.5 Missing Features/Known Bugs:

1. Payment method is limited to credit card.
2. Not enough validation for checking whether input payment information format is correct. In the future, may use regular expression to check.
3. Cannot add product to cart without jumping to cart page. In the future, may solve this problem by using AJAX.
4. Website security is not ensured.

4.1 WEB INTERFACE



4.2 User walk through

The screenshot shows the homepage of the COOLS Glass Store. At the top, there is a banner with the text "GLASS STORE" and "A great collection of 600+ stylish and trendy". Below the banner, the COOLS logo is displayed. The main navigation menu includes links for Shop, Home, Products▼, Pages▼, My Cart, Log In, and Sign Up. The central feature is a large image of a man and a woman wearing glasses, with the text "See _ a rich COLLECTION" overlaid. A call-to-action below the image reads "Buy Latest Glasses Frames, Spectacles & Chasma ...". Below this section, there is a caption "Picture 2" and a link "Top Three Trending Products". Further down, there are three pairs of sunglasses displayed side-by-side. At the bottom, there are five decorative badges: "VINTAGE ESTABLISHED 1997", "RETRO GUARANTEED EST 1997", "Vintage HIGH QUALITY", "VINTAGE ESTABLISHED 1997", and "HIPSTER PREMIUM QUALITY". The footer contains the COOLS logo, contact information (xxxxxx, xxxx@outlook.com, 320 xxxx Road), and links for Women, Men, General, Contact Us, About Us, Blogs, Check Out, Cart, and My Account. It also features a search bar with the placeholder "You can search products here" and a "Search" button.

The main page when user come in, and the user cannot click my cart since user did not log in. And if u click on it, it will move user to the login page.



It is worth mention that the main page show top 3 glasses which have highest sales, and when you move mouse on it, it show description to the product.

Log In

Administer

User Name and Password Do not Match!

or create an account [sign in](#)

or forgot password [Get back password](#)

This is the login page, if the user input wrong information, it will show user the red message that does not match.

Input Your Email and Name

wuhaqiu
672437089@qq.com
get back password

UserName and Password Donot Match!

[Return to MainPage](#)

forgot password

发件人: 密码重置邮件.

收件人: whq672437089

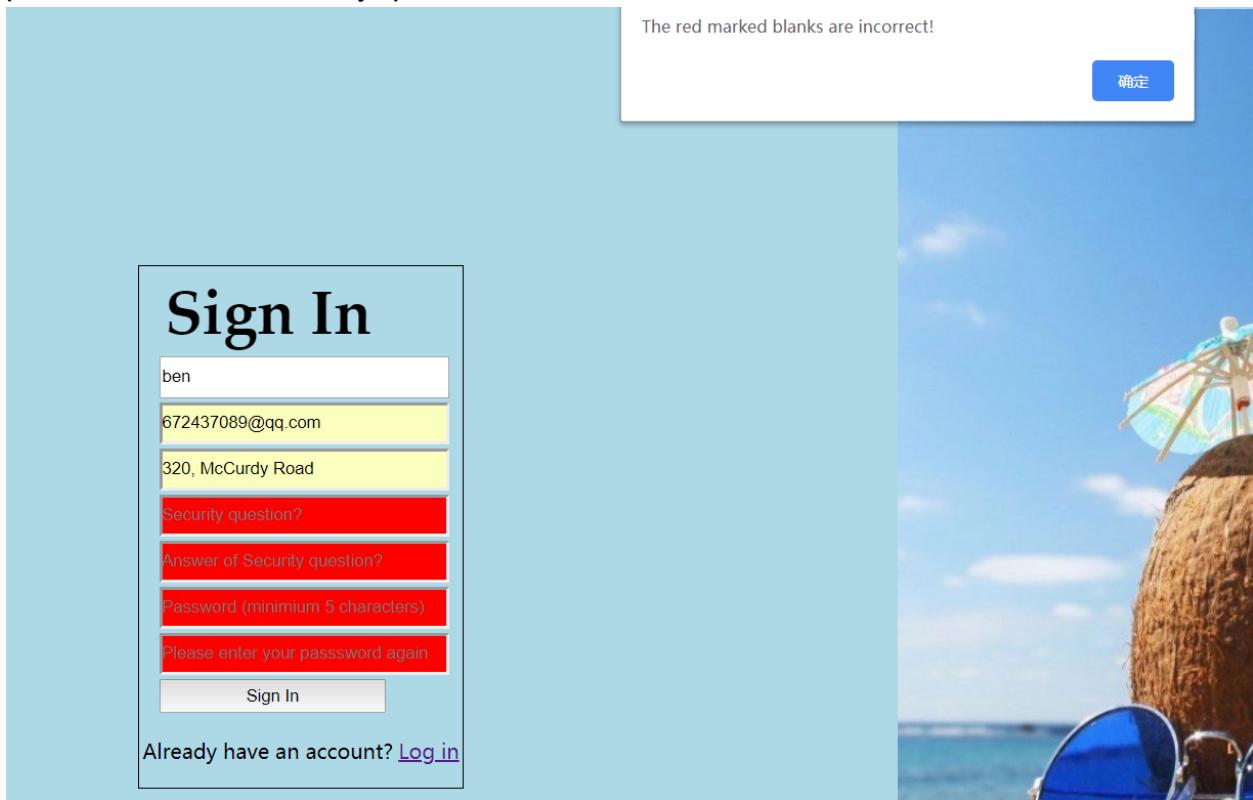
时 间: 2018-11-26 15:52

[回复](#) | [转发](#)

Dear Customer, Your uname, security
answer,passwdrod are:wuhaqiu who
11111

The first image is
when user forgot it

password, it need user to input username and email to reset it. If it is wrong, the email will not send to user's mailbox. But if it match, the user will receive an email to reset it password and it's security question.



This is the page when user want to create a account, if some information goes wrong, the red marked blanks will show these error and let user re-input it.

Sign In

Username

Email (has to be a valid email address)

Mailing Address

Security question?

Answer of Security question?

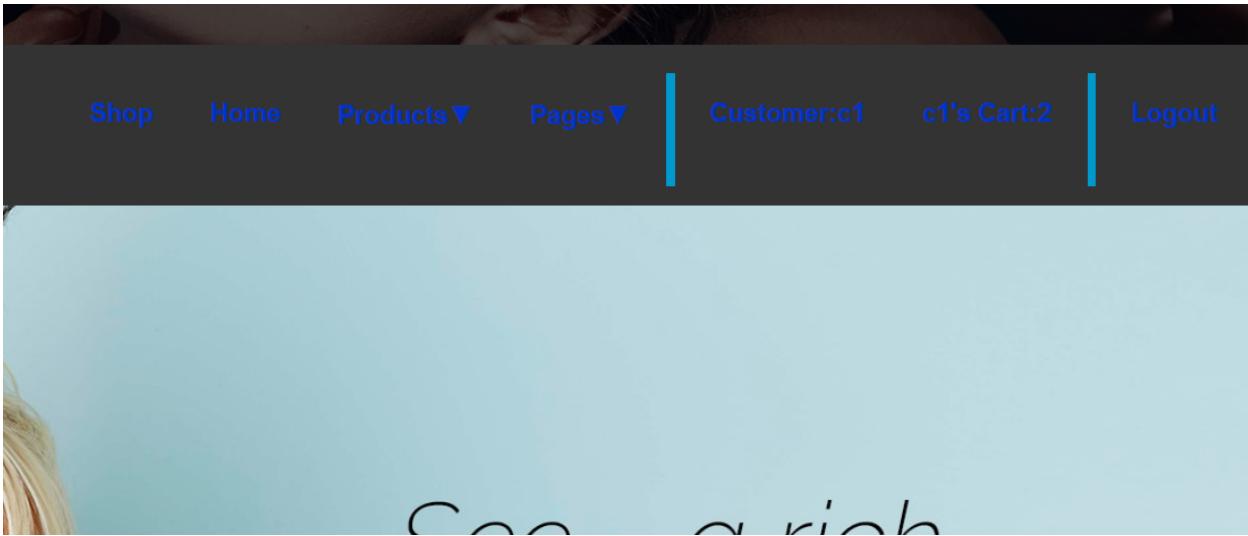
Password (minimum 5 characters)

Please enter your password again

UserNmae or email has existed!

Already have an account? [Log in](#)

This is another type of error which there are already other user use these userNmae or email



After use log in to our website, the cart will change to "userNmae"'s cart.



[FENDI Iridia cat-eye gold-tone and acetate sunglasses](#)

\$384.90



[GUCCI Damascato Cat Eye Gold Dark Green Mother-of-Pearl Sunglasses](#)

\$289.90



[SAINT LAURENT Black New Surf & Gold Wayfarer Sunglasses](#)

\$378.90



[GUCCI Damascato Cat Eye Gold Pure White Mother-of-Pearl Sunglasses](#)

\$289.90



[SAINT LAURENT Classic 11 Aviators 100% UV mirrored lenses](#)

\$490.90

When user want to buy the product, they can click product to choose whether view man's glasses or woman's glasses. And we can see the name, brand, image and the price of the product.



Our search function is at the bottom of the page, and the left side show the contact information of our website.



FENDI Iridia cat-eye gold-tone and acetate sunglasses

\$384.90

Rating: / 5

3 sold, 30 left.

[Add To Cart](#)

Fendi's coveted 'Iridia' sunglasses have been spotted on everyone from Izabel Goulart to Chiara Ferragni. A chic take on the classic cat-eye shape they're topped with black acetate and gold tips to accentuate your cheekbones. The graduated angular arms emphasize the contemporary feel.

Customer Reviews

[Review this product \(Login required\)](#)



c1

1998-08-09
this is a garbage

Rating: 2 / 5

Rate this product (0-5):

You have already reviewed this product.

After user click the good they want, the detail page will show buyer the description and the stock of the product. At this page buyer can add product to the cart. And also view the comment of this product to help judge whether it is worth to buy.

Profile Information			
UserName: c1			
Email:	whq@outlook.com		
Address:	320, McCurdy Road		
oid	uname	status	amount
1	c1	A step shipping	112.60
	productID	quantity	price
	1	3	31.40
	2	5	81.20

Answer Question to Update Information and Check Order History
 Question: 3

When user click their name, it will show the information page, user can input the security answer to update his information.

Modify/Update Your Information

Username
Email (has to be a valid email address)
Mailing Address
Security question?
Answer of Security question?
Password (minimum 5 characters)
Please enter your password again
<input type="button" value="Update"/>
Return to Customer Page

If the answer is correct, it goes to update information page.

Profile Information			
UserName: c1			
Email:	whq@outlook.com		
Address:	320, McCurdy Road		
UserName or email has existed! Update Fail!			
oid	uname	status	amount
1	c1	A step shipping	112.60
	productID	quantity	price
	1	3	31.40
	2	5	81.20

This is the page when use update the wrong email or UserName.

Your Shopping Cart

Product Id	Product Name	Quantity	Price	Subtotal	+	-	remove	
1	Chai	3	31.40	94.2	+ -	remove		<input type="button" value="update"/>
2	Shi	4	81.20	324.8	+ -	remove		<input type="button" value="update"/>
Order Total							419	
Check Out								

Our website is smart so it can store the good in user's cart after they log out.

Your Shopping Cart

Product Id	Product Name	Quantity	Price	Subtotal
Order Total				0
Check Out				

No Product!

This is the page when user check out without any product.

Your Summary

Product Id	Product Name	Quantity	Price	Tax	Subtotal
1	Chai	3	31.40	3.14	94.2
2	Shi	4	81.20	8.12	324.8
Order Total					419
Shipping Cost					2.4

Payment

Name on Card

Credit card number

Exp Month

Exp Year

CVV

[Continue to checkout](#)

When user have something in the cart and checkout, it goes to payment page.

Welcome to work, Manager.

Add Product Delete a Product
List all Customer Update Customer
Sales Report Update Order Status



This is our main page for manager, manager can see this page after login. There are six links on the page, and each of them will perform a function after clicking on it. The functions are “Add Product”, “Delete a Product”, “List all Customers”, “Update Customer”, “Sales Report”, and “Update Order Status”. Note that updating products can be achieved by deleting the original one then add a new one.

Product ID		
Product Name		
Product Price		
Category	Female	<input type="button" value="▼"/>
Inventory		
Product Description		
<input type="button" value="提交"/>		

some input contents are empty

[Back to Manager Page](#)

After clicking “Add Product” from the manager page, a form will show up. This form will ask for the necessary information for a product.

If the form is fill out completely, a notification will show at the bottom telling the manager that the adding is successful.

If there are any empty blanks, “some input contents are empty” will show at the bottom.

If the product already exists, the product will not be added, and the manager will be notified.

Product ID	
Product Name	
<input type="button" value="提交"/>	

invalid id or status

[Back to Manager Page](#)

This form will show after clicking “Delete Product”. The form will check if some inputs are empty. The product is found by its ID and name, and then it is deleted. If the product does not exist, the manager will be notified.

Customer Name	Email
c1	1@123
c2	88888@qq.com

[Back to Manager Page](#)

This will list all customers’ name and email in the database.

User to Update	
Update Email	
Update phone	
Update address	
<input type="button" value="提交"/>	

Some input field is empty

Some input field is not set

[Back to Manager Page](#)

This will update a customer’s email, phone, and address. If the customer does not exist, the manager will be notified.

Product Name	Price	Amount Sold	Profit Gain	Customer Ratings
Chai	18.00	3	54.00	
Shi	19.00	5	95.00	
laji	11.00	6	66.00	
SB	100000.00	0	0.00	
123	1223.00	0	0.00	

[Back to Manager Page](#)

This will list all product in our database and their price, amount sold, profit gain and ratings from the customers.

Update order status	
Enter order ID	<input type="text"/>
Enter Name	<input type="text"/>
New Status	<input type="text"/> ▼
提交	<input type="button" value="提交"/>

invalid id or status

[Back to Manager Page](#)

This form asks for the information required for updating order status. If the form is empty or the order does not exist. The manager will be notified.