

# PhotoArt

*Showcase the beauty of our world*

University of British Columbia Okanagan  
COSC 360, Web Programming

## Team Information

Rohan Chauhan - [Rohan.Chauhan@hotmail.com](mailto:Rohan.Chauhan@hotmail.com)

Matt Carrier - [Matt.Carrier183@gmail.com](mailto:Matt.Carrier183@gmail.com)

Jan Reisler - [Agentmikster44@gmail.com](mailto:Agentmikster44@gmail.com)

# Contents

- 1. Introduction
  - 1.1 Purpose
  - 1.2 Mission Statement
  - 1.3 Executive Summary
- 2. Implemented features
  - 2.1 System Requirements
- 3. Organization of pages - Site Map
- 4. Logic process
  - 4.1 Unregistered User
  - 4.2 Registered User
  - 4.3 Admin
- 5. User/Admin Walkthrough
- 6. Developers Perspective
- 7. Known Issues
  - 7.1 Incomplete Features
  - 7.2 Bugs/Errors
- 8. Conclusions

# Introduction

## 1.1 Purpose

This project design document describes the design and schema of the PhotoArt Website. Additionally, the document includes the UML design of our database, related assumptions, relational schema as well as many other important features.

## 1.2 Mission Statement

The crew here at PhotoArt seeks to provide the creatively inclined with exclusive prints of stunning photographs from our professional team of photographers.

## 1.3 Executive Summary

With so many stock photo websites and near unlimited access to pictures readily available on the internet, the true beauty of photography is being lost. PhotoArt still believes in the importance of photography, which is why we employ a team of highly-experienced professional photographers to deliver our customers with spectacular images.

The simple description of our business is that we sell and ship high-quality images printed on different sizes of premium canvases for reasonable prices. However, PhotoArt knows the power of a meaningful photo, which is why we don't consider ourselves just a photo-distribution service, rather a service that provides a window to your innermost dreams and desires. Fill your home, workspace or office with these beautiful escapes from your everyday life.

Art is borderless, which is why a central goal of our company is to provide a diverse view of the world all around us. For this reason, our photographers are posted all around the world, from the golden dunes of the Sahara to the snow-covered peaks of the Rocky Mountains.

The website, itself, delivers users with a seamless interface for all their print needs. It's easy to find the perfect image as our photos are divided into several categories, including landscape, nature and abstract. If customers have a specific photo in mind, they can find it with the search bar. The user also has the option of browsing our site as a guest or creating an account to review pictures or make purchases (by adding a photo to their cart). Each photo also includes image information so customers know exactly what they're getting and how the photo came to fruition. PhotoArt thinks of its customers as a community, which is why account holders can review any photo. We aim to showcase the beauty of our world with pictures. I'm sure you'll agree, the price tag is well worth the photograph quality and customer experience.

## 2.0 Implemented Features

### 2.1 System Requirements

Final Overall System Features	Progress
<b>Hosting</b>	
Running on cosc304 server	100%
<b>Main/Home Page</b>	
Search for a product by name	100%
Browse products by category	100%
List products (by search/browse)	100%
List products with image	100%
Page header with menu	100%
Page header shows current logged in user	100%
Dynamic products on page based on sales (hot item tracking)	100%
<b>Shopping Cart</b>	
Add to shopping cart	100%
View shopping cart	100%
Update quantity (with data validation)	100%
Remove item from shopping cart	100%
Improved formatting/UI (e.g. in header bar)	100%
Cart stored in database between sessions	100%

<b>Checkout</b>	
Checkout with customer id	100%
Checkout with payment/shipment info	100%
Checkout with data validation	100%
Inventory tracking per item	100%
Calculate taxes/shipping (by items/stat	100%
<b>Product Detail Page</b>	

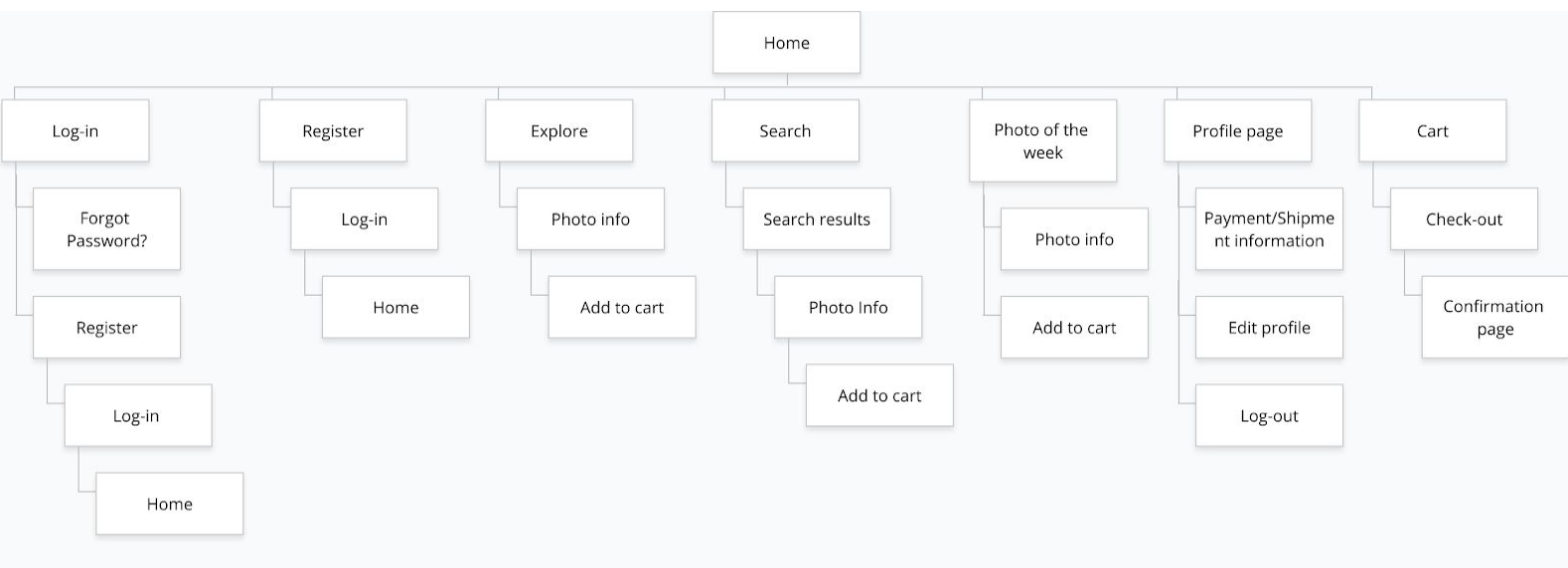
Product detail page and item description	100%
Product detail has an image	100%
<b>User Accounts and Login</b>	
Create user account page	100%
Create account with data validation	100%
Login/logout	100%
Register user/Forgot password email	50%

<b>Product Reviews</b>	
Ability to enter a review on a product	100%
Display product review on product detail	100%
Restrict to one review per user on item purchased	50%
Write Review form is dynamically collapsible (collapsible item section)	100%
<b>Administrator Portal</b>	
Secured by login	100%
List all customers	100%
List report showing total sales/orders	100%
Report with a graph	100%
Add new product	100%
Update/delete product	100%
Upload a photo to database for user	100%
Add/update warehouse, customer	50%
<b>Database System/General</b>	
Implement some validation using triggers	100%
Use AJAX for some pages	100%
User interface and navigation/usability	100%
<b>Additional Features</b>	
Accessibility for site	100%

Styling flourishes	100%
Search for user by name/email	100%
Enable/disable users	100%
Asynchronous update for cart	100%

## 3.0 Organization of Pages

### SITE MAP



## Logic Processes

### 4.1 Unregistered User -

As soon as the user enters our site, they are greeted by a soft and elegant web page design. The user, who we will call Stephanie, is visiting our page for the first time. She has the option of browsing our site as a guest, exploring (via the explore button) the many different categories of photos, or search (via the search bar on our home page) for anything that our website may have to offer. She decides to find a picture from the explore page, she clicks on an image from the landscape category. She is brought to a picture information page where she can view reviews, information about the picture such as what makes it unique or what camera settings the picture was taken with. Additionally she can see the name of the picture that the photographer has gave it, she can also add the photo to her cart if she so chooses. Stephanie did not use the sign-up button at the top of the page therefore is not logged in, when she clicks the add to cart button, she must register and login before she can add the picture to her cart. She inputs her information, and then must login using that newly created information. She has now logged in and can add the item to her cart, an indication that an item has been added to her cart is an additional number to her cart at the top right on the main bar. She leaves a review on the photo and even decides to share the photo on her social media platforms. She decides to navigate to her profile page, here she can add a picture to make her profile personal, as well as change her password and edit her payment information. Stephanie decides she is done browsing the website and checks out. She is shown a detailed page of her cart showcasing the picture as well as pricing information, she checks out and she is notified when the product will be shipped etc. and then finally after she is happy with her order, she logs out.

## **4.2 Registered User -**

The second user, Bob, has already been on the site and registered. He can simply choose to click on login which is located at the top right of the site on the main bar. He can input his information, login and continue through the website without any prompts to login, register etc.

## **4.3 Admin -**

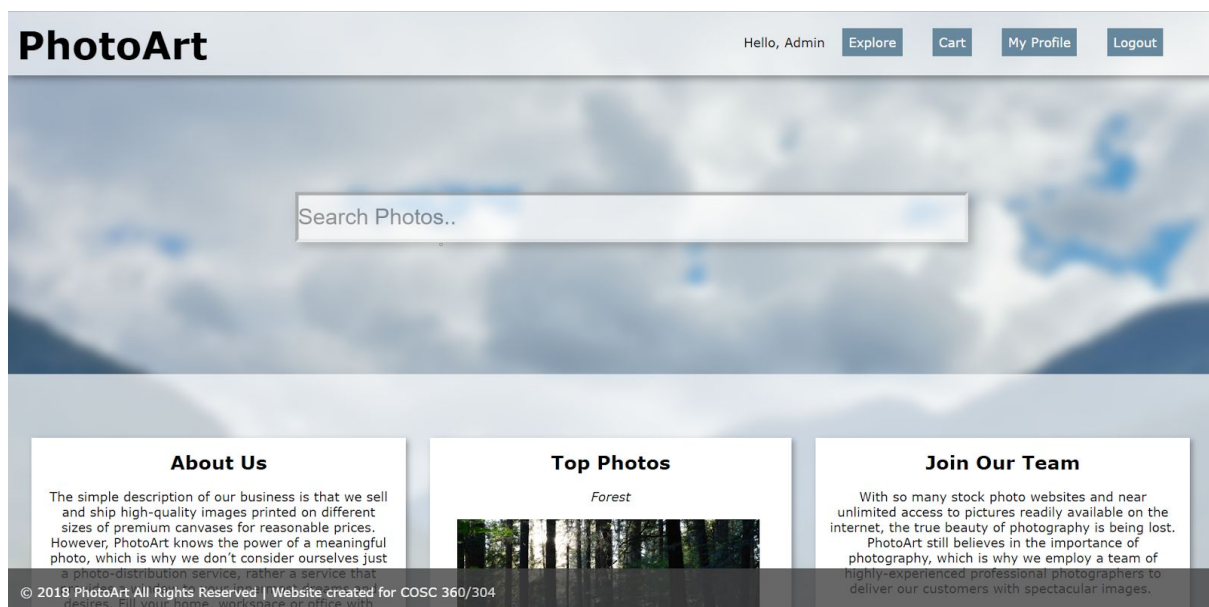
The third user is an admin, Carol, she can login as a normal user would, but she would have admin abilities such as tracking various features of the page. She will also be able to moderate any issues present and resolve user problems and generate usage reports.

## 5.0 User/Admin Walkthrough

The walkthrough begins by entering the following URL into your browser,

[http://cosc304.ok.ubc.ca/group12/src/client\\_side/PhotoArtMain.php](http://cosc304.ok.ubc.ca/group12/src/client_side/PhotoArtMain.php)

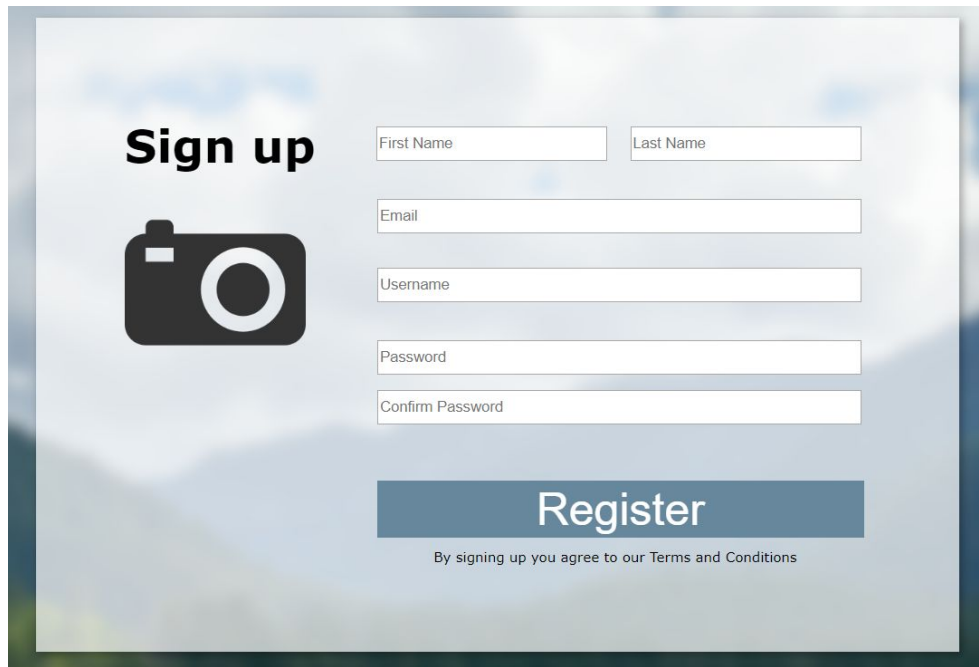
Where you will arrive at our beautiful main page, you can return here at any time by simply clicking the PhotoArt logo nestled in the top left of the navigation bar:



---

Next we will click on the 'Register' button (however, you can also browse the site without registering an account)



A sign-up form for a website called 'PhotoArt'. The form is set against a background image of a camera lens. On the left, the text 'Sign up' is displayed above a camera icon. To the right, there are input fields for 'First Name', 'Last Name', 'Email', 'Username', 'Password', and 'Confirm Password'. Below these fields is a large blue button labeled 'Register'. Underneath the button, a small line of text states: 'By signing up you agree to our Terms and Conditions'.

Here you can fill out the 'Register' form to create an account.

---

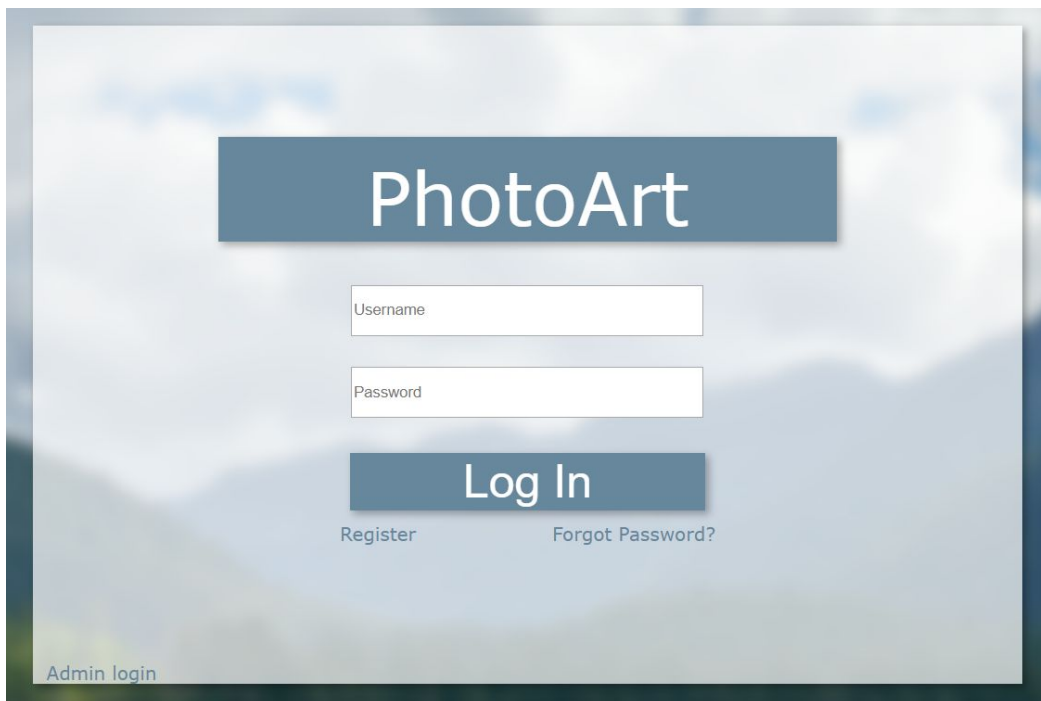
Once an account has been created, you will be brought back to the main page:



Note that the header now says 'Hello, tbrady' ('tbrady' was our chosen username) and the 'Login' tab has been replaced by a 'Logout' tab, because we are now logged in.

---

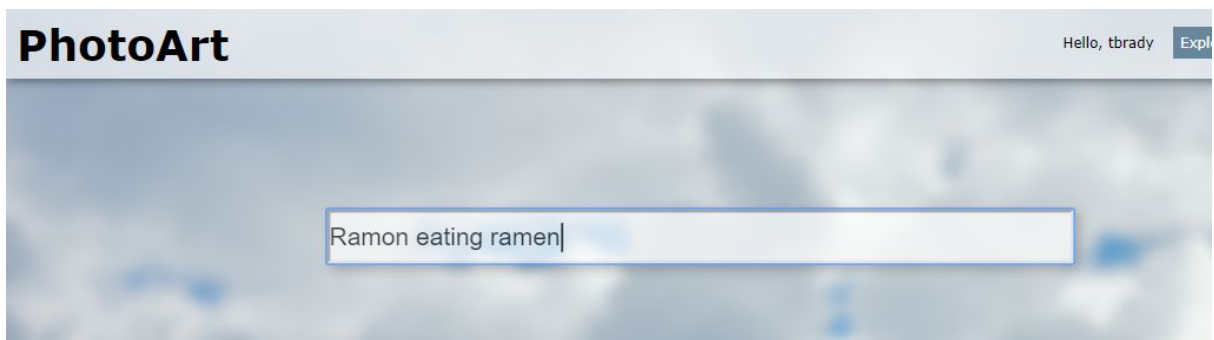
Or, if you already have an account you can simply login using the 'Login' button, which brings you to the following form:



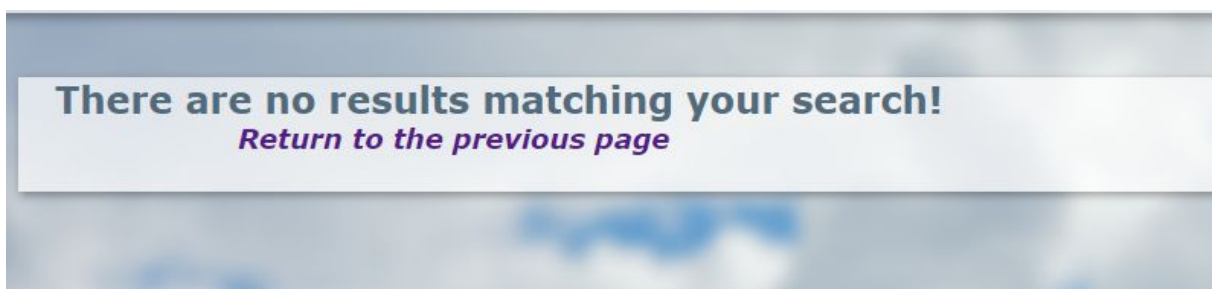
We will log in with the same username 'tbrady' and continue the walkthrough.

---

Next, we will use the search bar.



First we will search for a photo that is not sold on our site: 'Ramon eating ramen'. This is the result.




Now we navigate back to the main page by clicking the convenient link 'Return to the previous page'.

Now we search 's' in the search bar, which results in all pictures with 's' in the title as well as their respective descriptions:


There are 9 results!

Forest




A walk in the lush, green forest

Crops




Crops with a view of mountains in the background


Squirrel



Trees



Suppose we want more information on the picture 'Forest', so we click on the photo, which takes us to the Image Info page.



Forest

Image Info

A walk in the lush, green forest

In Stock: 0

Quantity:

\$39.99

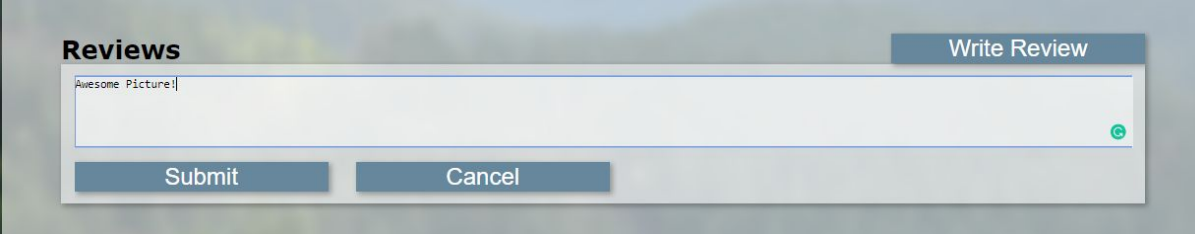
Share

Add to Cart

Reviews

Write Review

From here we can leave a review by clicking the 'Write Review' button and typing in a review beneath:

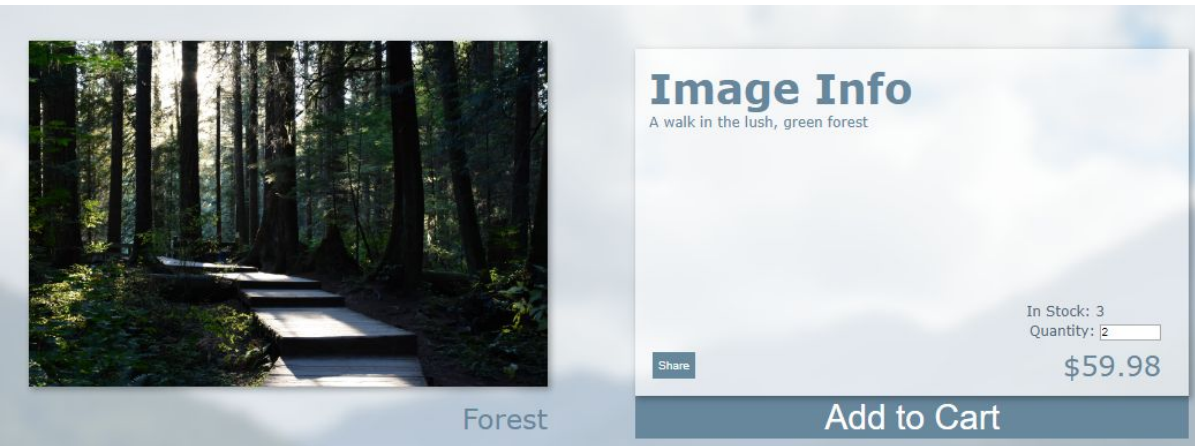


The screenshot shows a 'Reviews' section. On the right is a 'Write Review' button. Below it is a text input field containing 'Awesome Picture!'. At the bottom of the input field is a small green circular icon with a 'G'. Below the input field are two buttons: 'Submit' and 'Cancel'.

After submitting we get a confirmation message saying 'Review has been added'

---

From the Image Info page we can also put an item in the cart and see how many items are in stock. Let's add 2 copies of this photo to our cart (note that it automatically updates the price when you change the quantity).



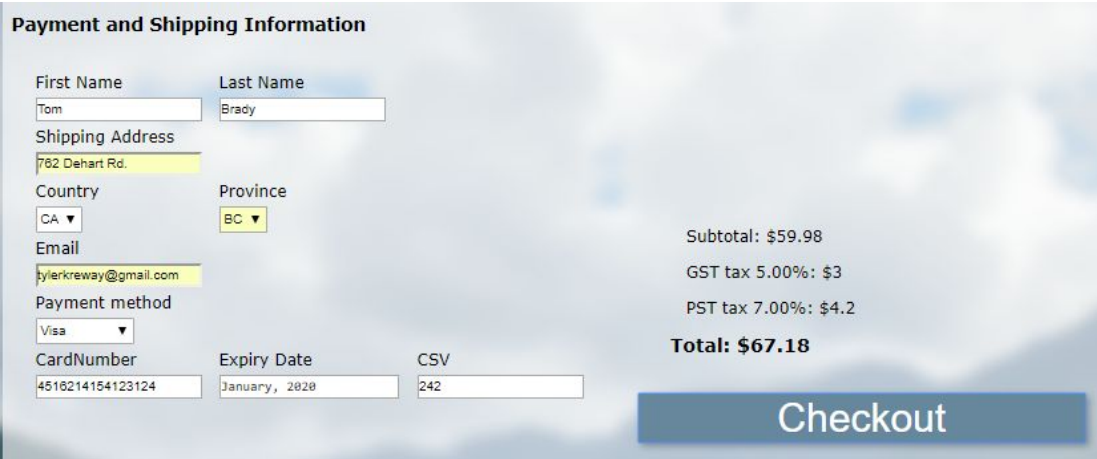
The screenshot shows an 'Image Info' page. On the left is a photo of a forest path. Below the photo is the title 'Forest'. To the right of the photo is a description 'A walk in the lush, green forest'. Further right, it says 'In Stock: 3' and 'Quantity: 2' with a dropdown menu. Below the quantity is the price '\$59.98'. At the bottom right is a large 'Add to Cart' button. There is also a 'Share' button on the left.

Once we've added the item to our cart, we click on the cart tab. From here we can remove the item or checkout.



The screenshot shows a 'Shopping Cart' page. It features a list of items. The first item is 'Forest', with a small image of the forest path. To the right of the item name are the details: 'In Stock: 1', 'Quantity: 2' (with a dropdown), and 'Price: \$59.98'. Above these details is a 'Remove Item' button. At the bottom of the cart, there is a 'Subtotal: \$ 59.98' and a 'Checkout' button.

We will place the order by clicking 'Checkout'. Which takes us to the 'Payment and Shipping Information' page, which we have filled out with our information.



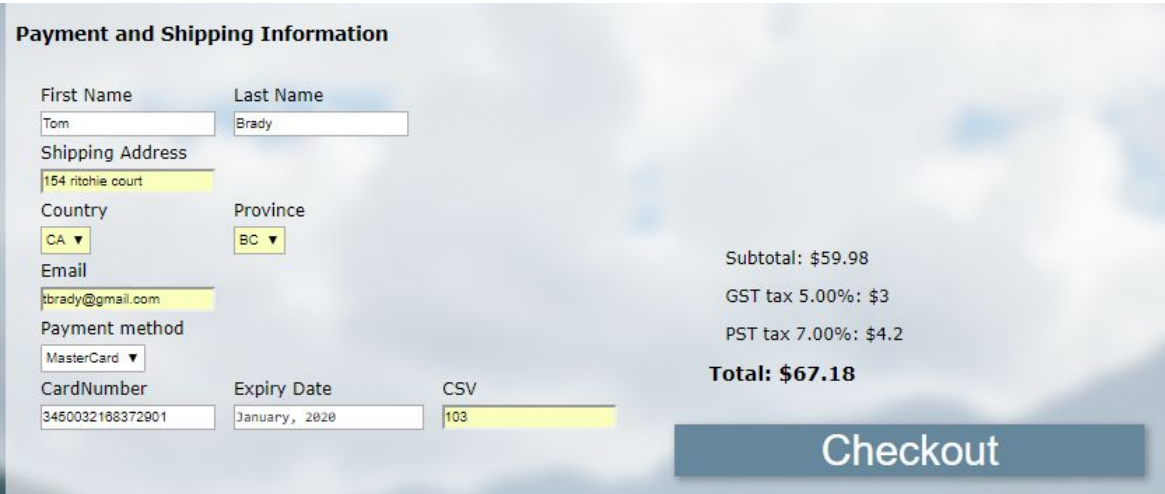
**Payment and Shipping Information**

First Name: Tom  
Last Name: Brady  
Shipping Address: 782 Dehart Rd.  
Country: CA  
Province: BC  
Email: tylerkreway@gmail.com  
Payment method: Visa  
CardNumber: 4516214154123124  
Expiry Date: January, 2020  
CSV: 242

Subtotal: \$59.98  
GST tax 5.00%: \$3  
PST tax 7.00%: \$4.2  
**Total: \$67.18**

**Checkout**

After clicking 'Checkout', here is what we can see.



**Payment and Shipping Information**

First Name: Tom  
Last Name: Brady  
Shipping Address: 154 ritohie court  
Country: CA  
Province: BC  
Email: tbrady@gmail.com  
Payment method: MasterCard  
CardNumber: 3450032168372901  
Expiry Date: January, 2020  
CSV: 103

Subtotal: \$59.98  
GST tax 5.00%: \$3  
PST tax 7.00%: \$4.2  
**Total: \$67.18**

**Checkout**

After filling out this information, we click 'Checkout' to confirm our order.

We receive this message to confirm that the order has been placed.

cosc304.ok.ubc.ca says

Thank you, the items have been ordered.

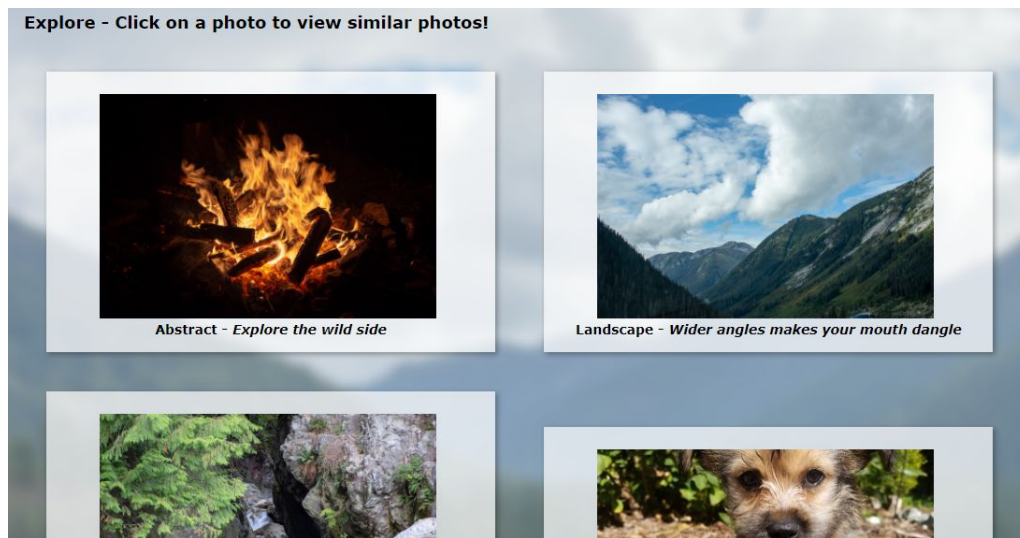
**OK**

Then, we are taken back to the main page.



---

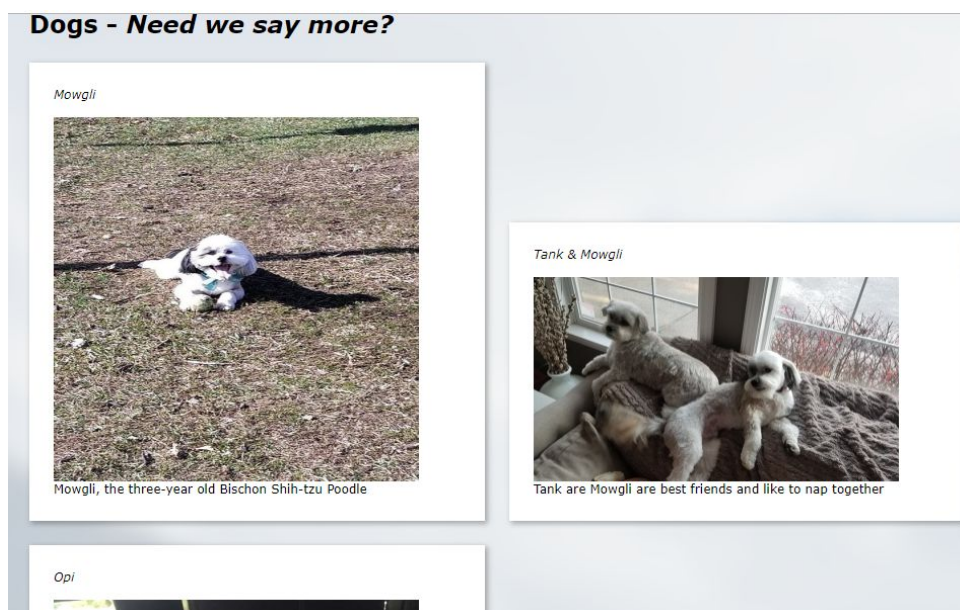
Now we will check out the 'Explore' tab.



This page displays our four categories of photos. From here you can select the category you are interested in and you will see photos that qualify as this category (and are similar to the category photo).

---

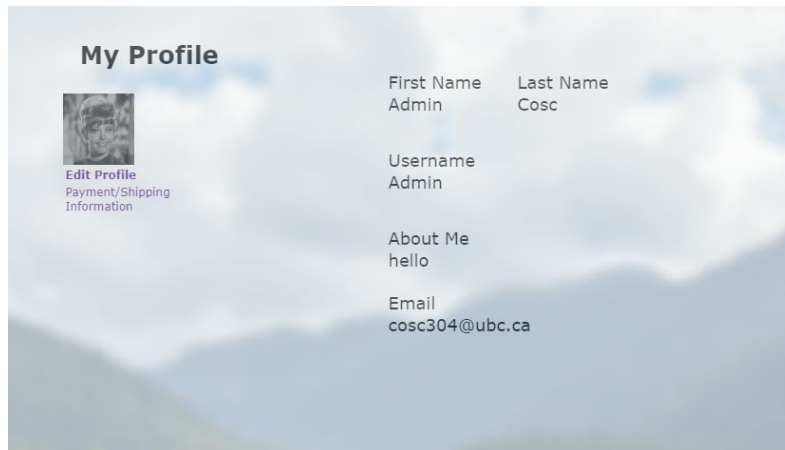
We will click the 'Dog' category.



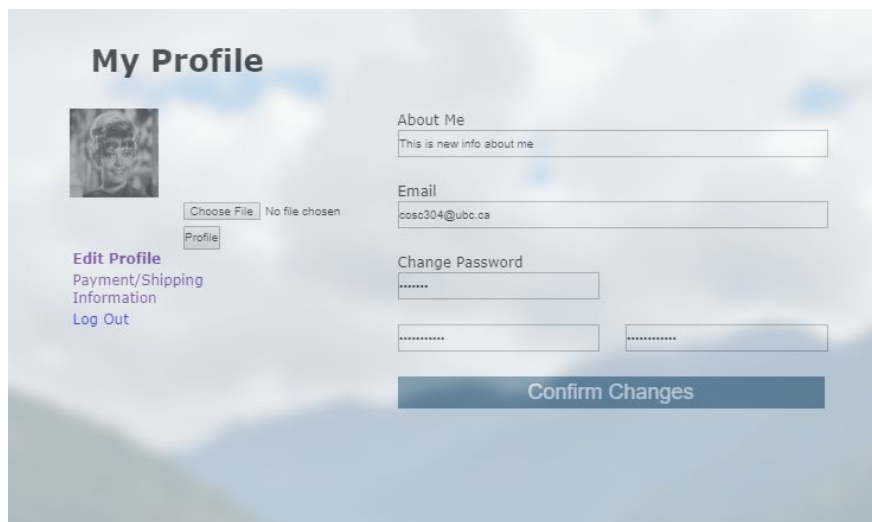
Clicking on any of these photos will take us to the Image Info page, which we have already covered.

---

Now we will click the My Profile tab  
From here we can view info about our profile:




Edit our profile by clicking 'Edit Profile', I updated the About Me section and changed my password. Clicking 'Confirm Pages' takes us back the 'My Profile' page and includes the updated information.



Edit our payment and/or shipping information by clicking 'Payment/Shipping Information', I updated the names and credit card information. Clicking 'Save Changes' takes us back the 'My Profile' page.

## Payment and Shipping Information

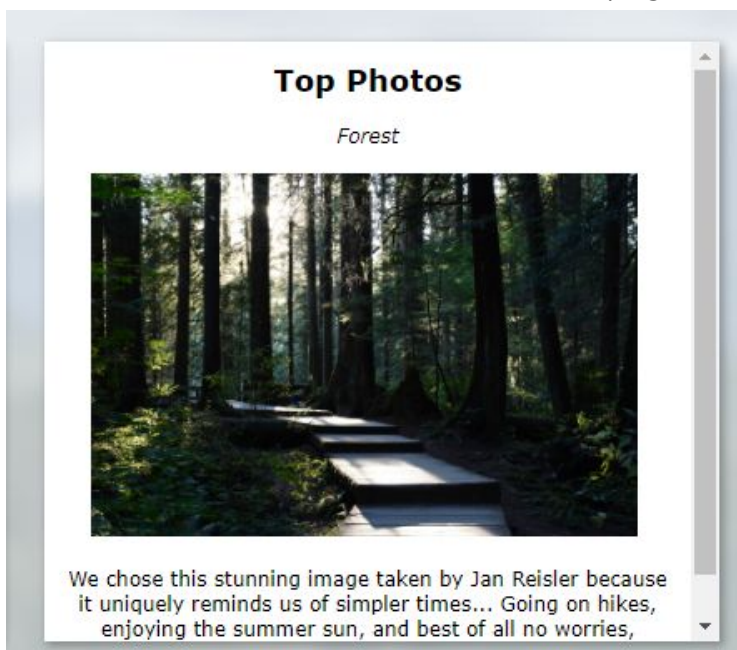


[Edit Profile](#)  
[Payment/Shipping Information](#)  
[Log Out](#)

First Name	Last Name	
<input type="text" value="Tom"/>	<input type="text" value="Brady"/>	
Shipping Address		
<input type="text" value="154 nitohie court"/>		
Country	Province	
<input type="text" value="CA"/>	<input type="text" value="BC"/>	
City	Postal Code	
<input type="text" value="Kelowna"/>	<input type="text" value="V1V 1Z"/>	
Payment method		
<input type="text" value="MasterCard"/>		
Card Number	Expiry Date	CSV
<input type="text" value="2147483647"/>	<input type="text" value="January, 2020"/>	<input type="text" value="103"/>

Save Changes

Our last user feature is back on the main page.



The 'Top Photos' section shows the top selling photo and a description of the photo, including where it was taken and the professional PhotoArt photographer who took it. Clicking the photo brings you to a page that shows you the top 5 highest selling photos of the week and a description of those photos. Clicking the photo brings you to the product information page.



## Top 5 favourite photos of the week

1. Forest



A walk in the lush, green forest

2. Creek

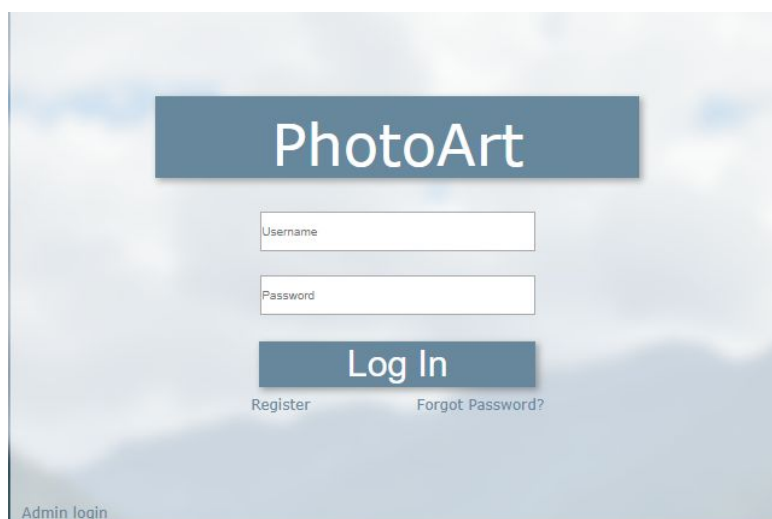


---

Lastly, we will log out using the 'Logout' tab. This concludes our *USER* walkthrough.

---

Now we will demonstrate the *ADMIN* tools. Click the login button and draw your attention to the bottom left of the form we can see the 'Admin login' button, go ahead and click it.

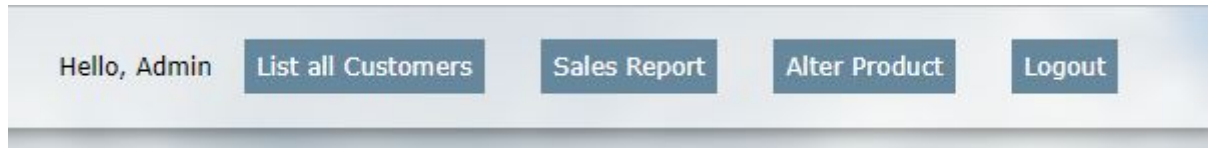
A screenshot of the PhotoArt login page. The page has a light blue background with a cloudy sky. At the top, there is a dark blue rectangular box containing the text "PhotoArt" in white. Below this, there are two white input fields: the first is labeled "Username" and the second is labeled "Password". Below the password field is a dark blue button with the text "Log In" in white. Underneath the "Log In" button, there are two links: "Register" on the left and "Forgot Password?" on the right. In the bottom left corner of the page, there is a small link that says "Admin login".

We will log in with our **admin credentials**:

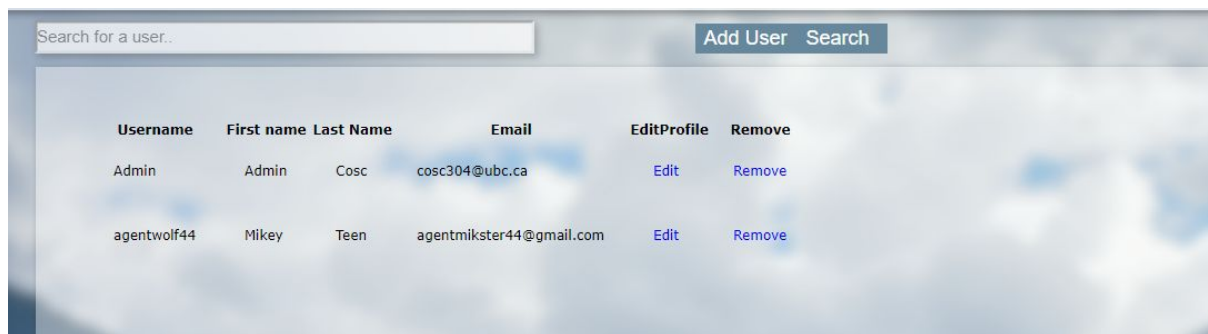
Username: *Admin* Password: *12345678*

---

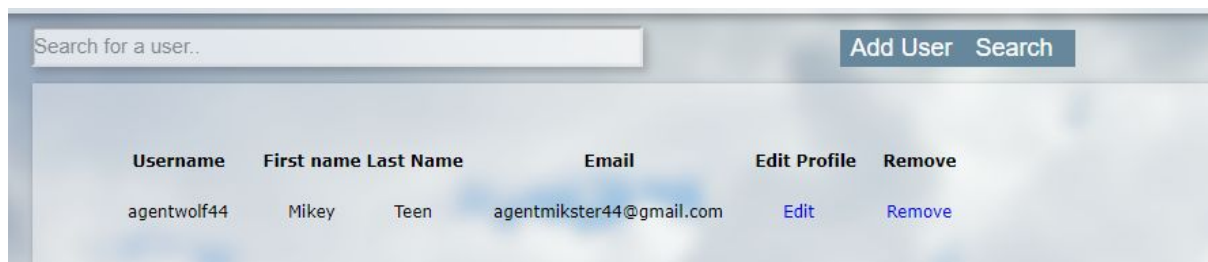
This will bring us back to the main page but now we have special tabs along the top catering to admin capabilities.



Clicking the 'List all Customers', we can see a list of all registered users.



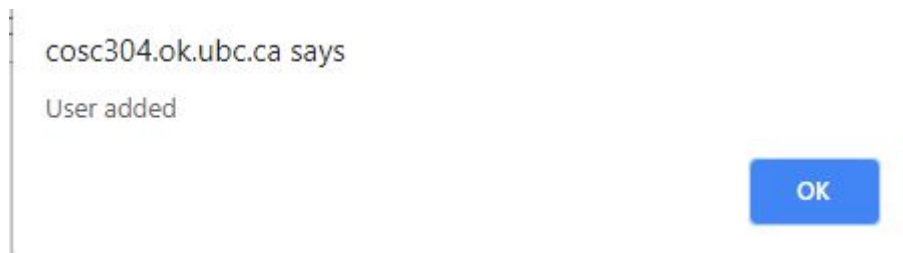
We can search through our users, searching their username, first name, last name or email by hitting 'Search' or pressing ENTER.



We can also directly add users to this list by clicking 'Add User', we then fill out the following information.

Username	First Name	Last Name	Email	Password
<input type="text" value="tbrady"/>	<input type="text" value="Tom"/>	<input type="text" value="Brady"/>	<input type="text" value="tbrady@gmail.com"/>	<input type="password" value="flatfootballs"/>
<input type="button" value="Add User"/>				

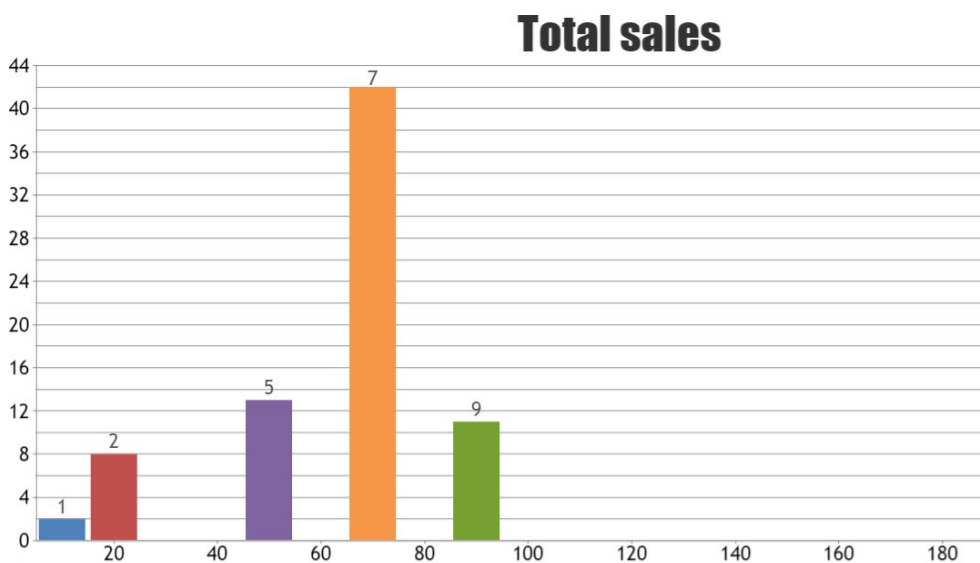
Clicking 'Add User' then gives us this confirmation message:



Then clicking 'OK' brings us back to the 'List all Customers' page, where the new user 'tbrady' has been added to the list (and the new user can then be searched for the same as anyone else).

---

Clicking the Sales Report tab, gives us a report on the company sales, which measures the amount of times each product has been sold:



Then click 'Alter Product' tab. We can search through our users, searching their UPC (picture id), title, category, price or email by ,hitting 'Search' or pressing ENTER. We will search 'Forest' , which returns:

UPC	Title	Category	Price	Image Link	Description	edit	remove
1	Forest	Nature	39.99	../client_side/images/Nature/Forest.JPG	A walk in the lush, green forest	<a href="#">Edit</a>	<a href="#">Remove</a>

From here we can either remove the photo or edit the photo.

---

Clicking 'edit' brings us to this page, where we changed the price from \$39.99 to \$29.99.

UPC	Title	Category	Price	Imagelink
<input type="text" value="1"/>	<input type="text" value="Forest"/>	<input type="text" value="Nature"/>	<input type="text" value="29.99"/>	<input type="text" value="../client_side/images/Nature"/>
<input type="button" value="Confirm Changes"/>				

Once we click, 'Confirm Changes' we get this message

cosc304.ok.ubc.ca says

item updated!

OK

Then we are brought back to the 'Alter Product' page, where the price of Forest has been updated from \$39.99 to \$29.99.

Search for a product..						<input type="button" value="Add Product"/>	<input type="button" value="Search"/>
UPC	Title	Category	Price	Imagelink	Description		
1	Forest	Nature	29.99	../client_side/images/Nature/Forest.JPG	A walk in the lush, green forest	<a href="#">Edit</a>	<a href="#">Remove</a>

Note: If you log out of an admin account and want to log back into a user account you must click the 'User Login' link on the login page.

That concludes the walkthrough of our website, we hope you enjoyed it.

## **6.0 Implementation: A Developers Perspective -**

PhotoArt is based on a model-view-controller pattern. The main view is the home page that will allow a user to access various parts of our website depending on whether or not they are signed in. Users that are not signed in will be able to view our products, explore the plethora of photo categories and add to cart. On every page, we have used php to implement a header that is consistent throughout the entire website, we have also used a connection php file that connects every page that includes it to the database using credentials linked within the connection file. Stemming from the front page, we have top photos, as well as a search engine - these both use queries and php to allow the page to dynamically produce results that pertains to the query; the only difference is, top photos returns the top 5 best selling products.

For javascript, we have validations for pages that require it, login page, registration page, payment/shipping page, profile page, password updating etc. On the more complicated end, we have ajax for the cart where the price gets updated per quantity dynamically, and we also have ajax on the picture information page so that the reviews dynamically update and alert users with toast popup's if errors.

If a user decides to register with PhotoArt they will have control over their own profile. They will have access to features such as, adding a profile picture and making comments/reviews on their favorite photos. Users can also remove items from their cart via the cart page as well as update the quantity as they so choose. The admin page is only accessible to people with admin credentials and has access to adding and dropping both products and customers as well as being able to view total sales. Every page on the admin side runs through a header that will check for session

state and will reroute users that are not signed in as an admin. The edit/remove features are run through server side scripts that will receive information through the header and removes/updates the selected row.

Some limitations of PhotoArt is that it is fairly slow at pulling photos and does not have the amount of security that would be desired if we ever decide to make the site public.

## **7.0 Known Issues**

### **7.1 Incomplete Features**

- Doesn't automatically update and can't update quantity while in cart view
- The numbers on the x-axis on Total Sales are meaningless and are only used to space out the different products.
- You can decrease the quantity of a product to put into your court (to a minimum of 1) with the arrows but you cannot increase the quantity
- When you add a review, it is added to the database, but you can't view it under reviews

### **7.2 Bugs/Errors**

- After submitting a review, if you try to place an order it gives you the wrong toast notification. It does add it to your cart but instead of getting the desired message 'Item(s) added to your cart', you get the message 'Review has been added' again. Refreshing the page fixes this issue.
- On the 'Alter Product' tab the 'Add Product' and 'Search' buttons are overlapping.
- When you try to 'Save Changes' when editing 'Payment/Shipping Information, the site crashes

## **8.0 Conclusions**

While this document focused primarily on the website functionality and the database implementation, we want to be clear in our objectives as a company. *PhotoArt* has one simple goal; to bring people's dreams into their homes. We are, and will always be, all about the photos.

We hope that this document was informative, easy to follow and showcased all the technical work that went lovingly into this project. Thank you for your time.

The PhotoArt Team

*Showcase the Beauty of Our World*