COSC 304: Introduction to Databases
Final Lab
WildFire Solutions - BCWS Tool Shed

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Mission Statement

Streamlining the delivery of wildfire equipment.

Executive Summary

At Wildfire Solutions we believe in everyone's right to protect their home, belongings, and family against unpredictable and ruthless wildfires. With that being said, wildfire crews on the front lines need the proper equipment to successfully keep our communities safe. Welcome to Wildfire Solutions website, a resource for wildfire fighters across British Columbia to order all desired supplies under one umbrella. Users will have an opportunity to select products from 8 different categories and place orders to their desired address for shipping purposes. Product examples from these categories include, but are not limited to a Fire Rake or Shovel within our hand tools selection; as well as Baby Wipes and Jack's New England Clam Chowder within our essentials selection. Users of the website will need to login or create an account upon opening the homepage. To create an account, the user will need to supply their personal contact information as well as their address and finish off by creating a user ID and password in which they can log in during future sessions. Creation of an account will provide access to additional pages within the website that non users are unable to access, along with simplifying the checkout process in which users will not need to re enter their login information.

System Features

Final Overall System Features	Category	Possible Points	completed	Comments / Code Files
Documentation (10 total points)				
Executive Summary (up to 1 page)	Core	2	✓	
System Features (2 pages)	Core	2	✓	
Walkthrough with screenshots (up to 15 pages)	Core	6	✓	
Hosting (10 total points)				
Running on cloud server	Advanced	10		
Main/Home Page (up to 14 total points)				
Search for a product by name	Core	1	✓	listprod.jsp
Browse products by category	Core	1	✓	listprod.jsp
List products (by search/browse)	Core	1	✓	listprod.jsp
List products with image	Core	1	✓	product.jsp
Page header with menu	Basic	1	✓	index.jsp
Page header shows current logged in user	Basic	1	✓	
Dynamic products on page based on sales	Basic	2	✓	index.jsp
Improved UI (user-friendly, images, etc.)	Basic	2	✓	Added background
Product recommendation based on user	Advanced	4		
Shopping Cart (up to 8 total points)				
Add to shopping cart	Core	1	✓	listprod.jsp, product.jsp
View shopping cart	Core	1	✓	listprod.jsp, product.jsp (add to cart takes to viewcart)
Update quantity (with data validation)	Basic	1		
Remove item from shopping cart	Basic	1		
Improved formatting/UI (e.g. in header bar)	Basic	1		
Cart stored in database between sessions	Basic	3		
Checkout (up to 9 total points)				

Checkout with customer id	Core	1	✓	
Checkout with payment/shipment info	Basic	2		
Checkout with data validation	Basic	2		
Multiple shipments per order supported	Advanced	2		Note: Requires DB change.
Calculate taxes/shipping (by items/state)	Advanced	2		Note: Requires DB change.
Product Detail Page (up to 2 total points)				
Product detail page and item description	Core	1	✓	product.jsp
Product detail has an image from database	Core	1	✓	product.jsp
User Accounts/Login (up to 12 total points)				
Create user account page	Basic	2	✓	createuser.jsp
Create account with data validation	Basic	2	✓	createuser.jsp
Edit user account info (address, password)	Basic	2		
Login/logout	Core	1	✓	
Register user/Forgot password email	Advanced	4		
Page listing all orders for user	Core	1	✓	customer.jsp
Product Reviews (up to 5 total points)				
Ability to enter a review on a product	Basic	2	✓	product.jsp
Display product review on product detail page	Basic	1	✓	product.jsp
Restrict to one review per user on item purchased	Advanced	2	✓	product.jsp
Warehouses/Inventory (up to 5 total points)				
Display item inventory by store/warehouse	Basic	2	✓	admin.jsp
Edit item inventory by store/warehouse	Advanced	3		
Administrator Portal (up to 19 total points)				
Secured by login	Core	1	✓	
List all customers	Core	1	✓	admin.jsp
List report showing total sales/orders	Core	1	✓	admin.jsp

Report with a graph	Advanced	3		
Add new product	Basic	2	✓	admin.jsp
Update/delete product	Basic	2		
Change order status/ship order	Basic	1		
Upload a photo to file system for product	Advanced	2		
OR: Upload a photo to database for product	Advanced	4		
Database restore with SQL script	Basic	2	✓	
Add/update warehouse, customer	Basic	2		
Database System/General				
Implement some validation using triggers	Advanced	2		
Use AJAX for some pages	Advanced	4		
User interface and navigation/usability		Up to 5	1	All files include background and main interaction screens have navigation back to home
Others (your suggestions)		Up to 5		
Total: (out of 50 with maximum of 10 bonus marks. i.e. 60 points out of 50 is max.)				

Users: mac, tanner, blake, logan, ramon
Cid: 1, 2, 3, 4, 5,
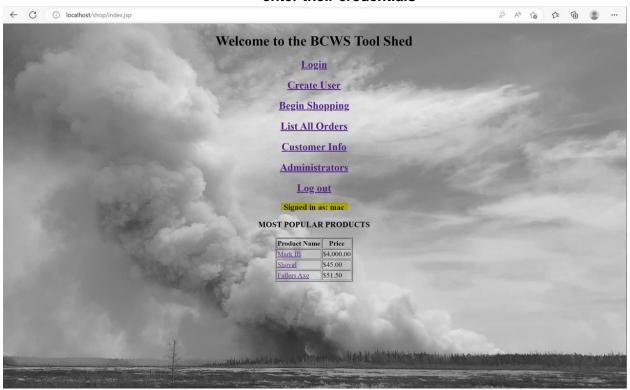**Passwords: mac, tanner, blake, logan, ramon**

System Walkthrough

Opening page

From the opening page a user can choose to login here the user would enter their credentials

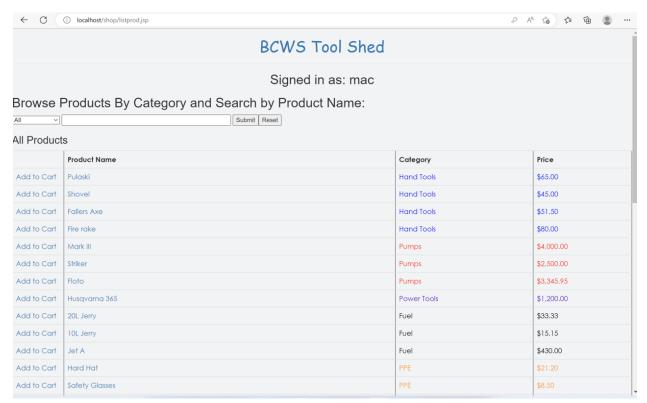**The user is returned to the main page with their name appearing below logout**

Create User

First Name: New
Last Name: User
Email: user@new.com
Phone Number: 2500001242
Address: 123 main st
City: Kelowna
State: BC
Country: Canada
Postal Code: t7v1c1
User ID: new
Password: ••••

Submit Reset

Please fill in all fields!

A new user can also be added by selecting the given link and entering details

Customer List

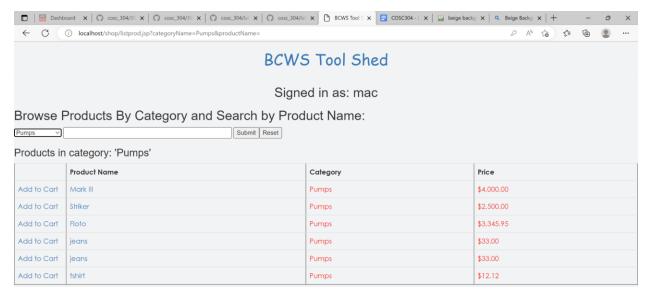| Customer ID	Customer Name
mac	Mackenzie Kudrenecky
tanner	Tanner Dyck
blake	Blake Ablitt
logan	Logan Gilroy
ramon	Ramon Lawrence
new	new user
hello	new1 last
mac	mac mac
m	mac mac
new	New User

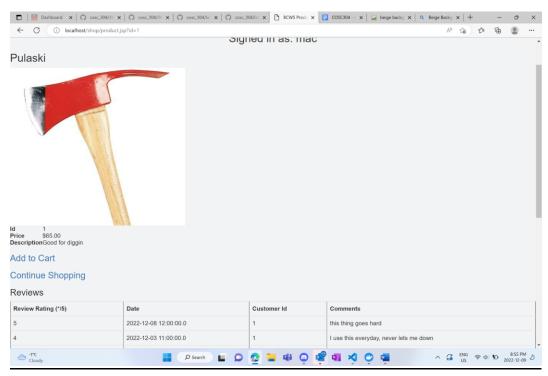**After adding the new user they are added to the list of users visible in the admin page**

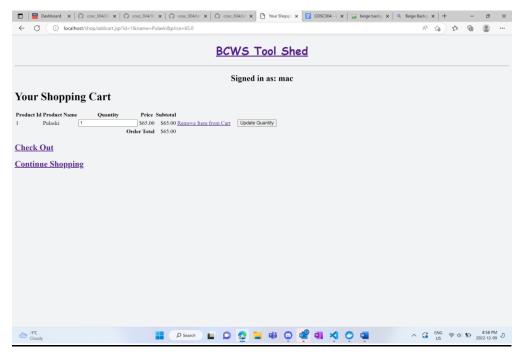**The general shopping page is shown once the begin shipping page link is selected**

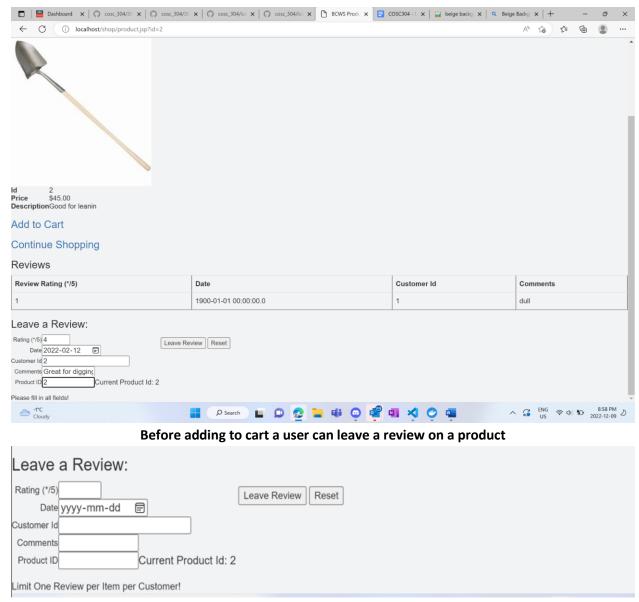**Users can choose to search for products by partial name is "hard"**

Users can also choose to seach by product category ie "pumps"

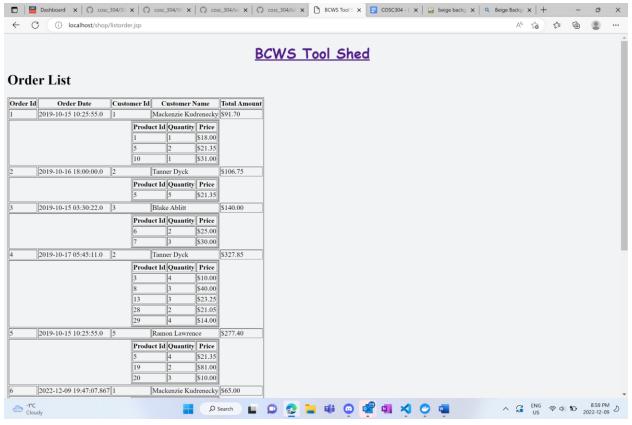**After finding a product the user wants they can select it to see more information**

Once the user decides they want the product they select add to cart which allows them to pick a quantity.

Before adding to cart a user can leave a review on a product

The site will limit the users to a single review per product

BCWS Tool Shed

Signed in as: mac

Your Shopping Cart

Product Id	Product Name	Quantity	Price	Subtotal		
1	Pulaski	1	$65.00	$65.00	Remove Item from Cart	Update Quantity
		Order Total		$65.00		

Check Out

Continue Shopping

After adding to cart a user selects quantity and checkout

Enter your customer id and password to complete the transaction:

Customer ID: [   ]
Password: [   ]
Submit   Reset

User enters credentials to checkouts

Your Order Summary

Product Id	Product Name	Quantity	Price	Subtotal
1	Pulaski	1	$65.00	$65.00
		Order Total		$65.00

Order completed. Will be shipped soon...

Your order reference number is: 12

Shipping to customer: 1 Name: Mackenzie Kudrenecky
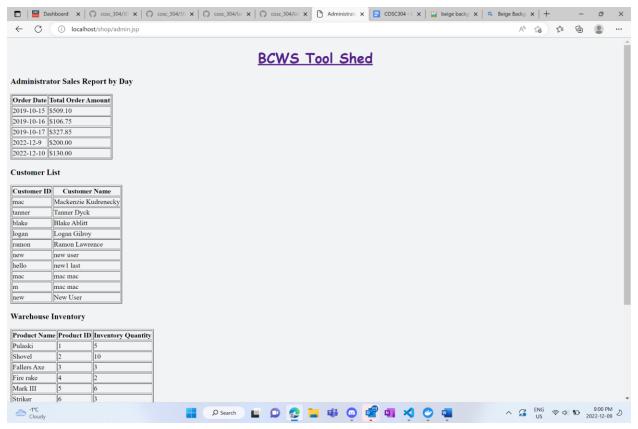
Return to shopping

The user is then given an order summary and order number
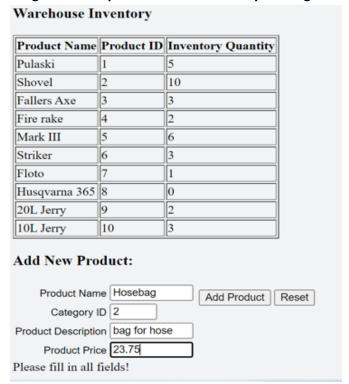
After an order is placed it can bee seen by admin under the order list

To access the admin page select admin from the man page which will bring you to the page above
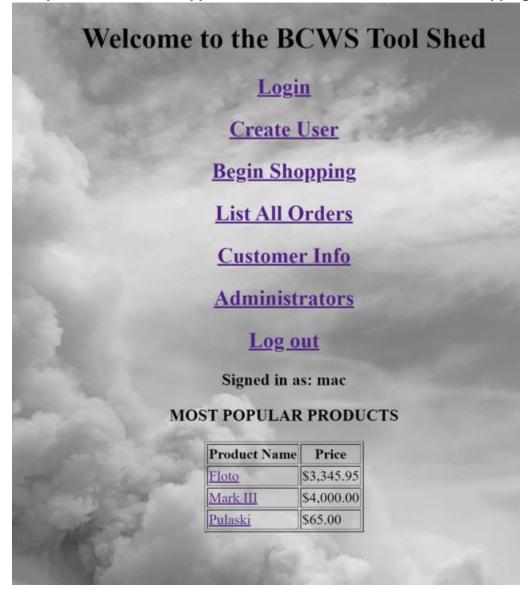
After entering the admin portal there are a variety of things to be viewed

At the bottom of the admin page an admin can choose to add a new product

Add to Cart	jacket		Hand Tools	$200.00
Add to Cart	jeans		Pumps	$33.00
Add to Cart	jeans		Pumps	$33.00
Add to Cart	shorts		Fuel	$33.40
Add to Cart	tshirt		Pumps	$12.12
Add to Cart	Hosebag		Pumps	$23.75

After a new product is added it appears under the available items in the shopping page

After users have used the site and orders have been placed the popular items page updates to display the top 3 products