

The Super(natural) Store



**UNIVERSITY OF BRITISH COLUMBIA OKANAGAN COSC 360, WEB DEVELOPMENT,
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1. Introduction

Super(natural) Store is one of the most popular supernatural stores. For this reason we were contacted and asked to build them an online website. The Super(natural) Store (supernaturalstore.worobetz.ca) allows users to purchase from our online site and ship the items to their address or pick up at their nearest store. This website allows users to shop comfortably from their very own home.

1.1. Purpose of Document

The purpose of this document is to provide the Super(natural) stores current status. There is an introduction and executive summary. The list of system features, user and admin walkthrough, the implementation, and the deployment and automation.

1.2. Mission Statement

Our mission is to provide everyone with the opportunity to purchase a supernatural creature and/or gear without having to hunt them themselves, whilst providing the highest quality of experience. We plan to design, build, and implement an efficient and accessible store for a safe and fulfilling experience for customers, visitors, and administrators.

1.3. Executive Summary

Super(natural) Store is a website designed for everyone to have the opportunity to gain access to the everyday creature and gear or the opportunity to peruse our premium selections. Premium selections include items such as the famous Dracula or perhaps Samuels Colt. These items were brought to you by specialty hunters to take the work out of capturing your average creature or a specialty selection. The goal of the website is to be simple and easily accessible. Thus, allowing all guests to be able to view products and add them to their cart then login in to purchase or register if they have not already.

The website provides an easy to use navigation which allows the customer, visitor, or administration to search and filter through our product selection with use of our database. A guest is able to view all of the selection as well as add items to their cart. However, for a user to purchase these items they must make an account. Users who have chosen to create an account will input their first and last name, create a password, and enter their email. The system can also store shipping and billing information, credit card information, and other preferences. Each of the products we supply contain at least one picture, a title, description, and price.

A user can also be an administrator, however, these individuals are only those that are part of the company. Administrators have the ability to perform maintenance changes to items, users, and orders. This section of the website is private to the administrator accounts. Administrators are also able to get website analytics.

To register for an account, a user must provide their first and last name, email address, and create a password. The password must be six characters long and contain at least one number. The user has the ability to change their account information at any time.

2. System Features

The following section of the document gives a short description of the system features including a description, status, as well as code files.

System Features	%Complete	Code Files
Hosting		
Running on csc 360	75%	(N/A)
OR: Running on external hosted server	100%	Supernaturalstore.worobetz.ca, index.php
Main Page		
Search for a product by name	100%	Header.php, products.php
Browse products by category	100%	productSidebar.php, product.php
List products (by search/browse)	100%	Product.php, productSidebar.php
List product with image	100%	Product.php, productSidebar.php
Page header with menu	100%	header.php
Page header shows current logged in user	100%	header.php
Dynamic products on page based on sales	100%	Products.php (top 5)
Product recommendation based on user	(N/A)	(N/A)
Shopping Cart		
Add to shopping cart	100%	Product.php individualProduct.php
View shopping cart	100%	Cart.php, checkout.php, accountDetails.php
Update quantity (with data validation)	100%	Cart.php, checkout.php, accountDetails.php
Remove item from shopping cart	100%	Cart.php, checkout.php, accountDetails.php
Improved formatting/UI (e.g. in header bar)	100%	header.php
Cart stored in database between sessions	100%	Login.php, logout.php
Checkout		

Checkout with customer id	100%	checkout.php
Checkout with payment/shipping info	100%	checkout.php
Checkout with data validation	100%	checkout.php checkout-payment.js checkout-shipment.js checkoutNewPayment.php checkoutShipping.php
Inventory tracking per item	100%	addToCart.php, cart.php, checkout.php
Inventory tracking by store/warehouse	100%	addToCart.php, cart.php, checkout.php
Multiple shipments per order supported	(N/A)	
Calculate taxes/shipping (by items/state)	50%	Checkout.php (calculate a tax and add delivery fees)
Product Detail Page		
Product detail page and item description	100%	Product.php, individualProduct.php
Product detail has an image	100%	Product.php, individualProduct.php
Product detail has an image from database	100%	Product.php, individualProduct.php
User Accounts and Login		
Create user account page	100%	createAccount.php
Create account with data validation	100%	createAccount.php
Login/logout	100%	Login.php accountDetails.php
Register user/Forgot password email	100%	Login.php accountDetails.php
Page listing all order for user	100%	accountDetails.php
Product Reviews		
Ability to enter a review on a product	100%	individualProduct.php, review.php
Display product review on product detail	100%	individualProduct.php
Restrict to one review per user on item purchased	100%	individualProduct.php

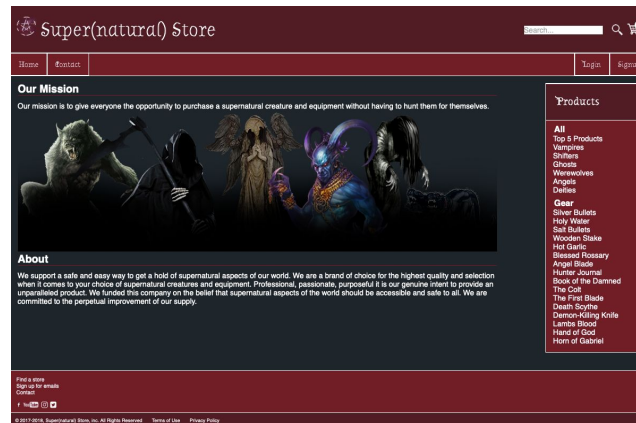
Administrator Portal		
Secured by login	100%	Admin.php (all admin page children done the same)
List all customers	100%	customerlist.php
List report showing total sales/orders	100%	orderList.php
Report with a graph	(N/A)	(N/A)
Add new product	100%	add.php
Update/delete product	100%	productDetails.php, delete.php
Change order status/ship order	N/A	N/A
Upload a photo to file system for product	N/A	N/A
OR: Upload photo to database for product	100%	add.php
Database restore with SQL script	N/A	N/A
Add/update warehouse, customer	50%	Add.php (customer only)
Database System/General		
Implement some validation using triggers	N/A	N/A
Use AJAX for some pages	N/A	N/A
User Interface and navigation/usability	100%	header.php
Our Suggestions		
Sort products price: high-low and low-high	100%	product.php
Shopping cart shows the amount of item types in your cart	100%	Header.php, header-footer.css.
Total: Maximum 50		

3. Walkthrough

3.1 Home page

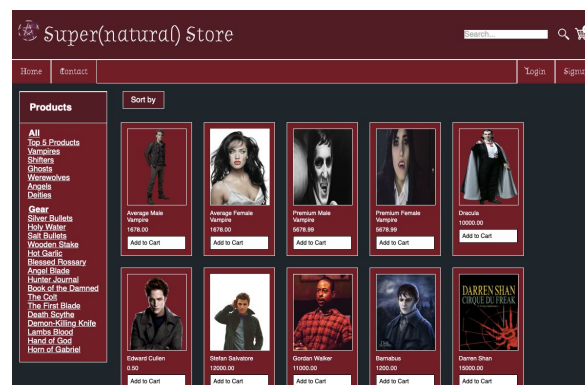
Visiting the link: <https://supernaturalstore.worobetz.ca> will bring you to the home page of the Super(natural) Store. It includes a quick navigation bar to grant the ability to find items while also giving users an opportunity to learn about our page.

Every page on Super(natural) Store also has a fixed header that provides access to the websites services including: homepage, contact information, account details, search, shopping cart, as well as login and signup access. If you are an admin account you will also have access to the admin page. These options allow the user to get back to the homepage, contact the stores and see a list of FAQ. Users can also search through the products, direct themselves to their shopping cart, or go to the login and signup page. You can then click All products on the side bar to navigate to the products page.

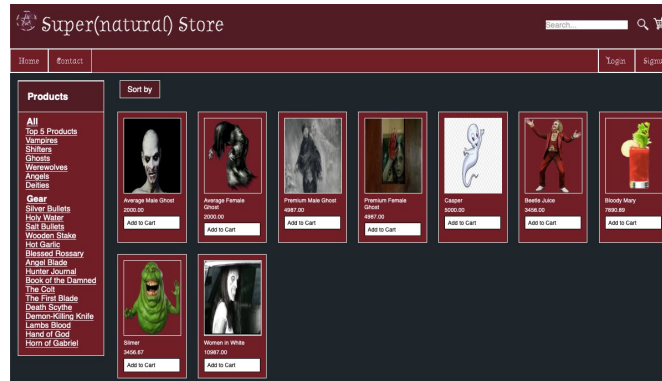


3.2 Product Page

The product page is used to navigate through categories and subcategories to find your desired product, giving the ability to browse all items at once. The sort by button is available to sort products by price high to low and low to high. There is also a hot 5 products section which is listed in the product sidebar as Top 5 Products. You can add items to cart from here or click on an image to bring up a detailed description page of the product.

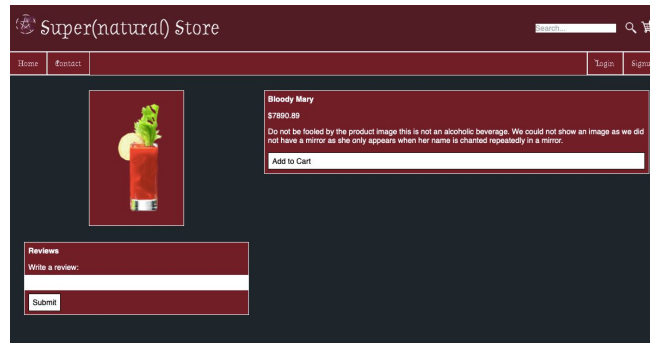


On the sidebar click on ghosts to see the products organized by the specific category. You can also make use of our handy search bar in the top right and search Bloody Mary. From here click on the image of Bloody Mary, this will bring up the individual product page.



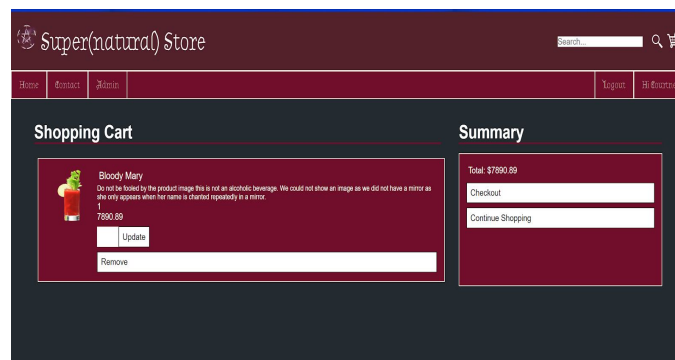
3.3 Individual Product Page

On this page you can see an enlarged image of the product as well as a description and the ability to add the product to your cart. You can also write a review if you are logged in. Reviews are restricted to one review per product. Admins cannot make reviews. Next, add Bloody Mary to your cart and click on the shopping cart item in the top right corner. If an item is out of stock an alert will indicate that. The icon updates as items are added to allow you to keep track of your spending.



3.4 Shopping Cart

The shopping cart gives you the ability to view items that you have added to your cart. You can increase the quantity which will update your price total. If you update the quantity to be greater than the amount of stock an alert will indicate you can't add any more items. Further you can remove an item, see the price of a single item, subtotal of all items, continue shopping and navigate to the checkout page. Next, try to checkout.



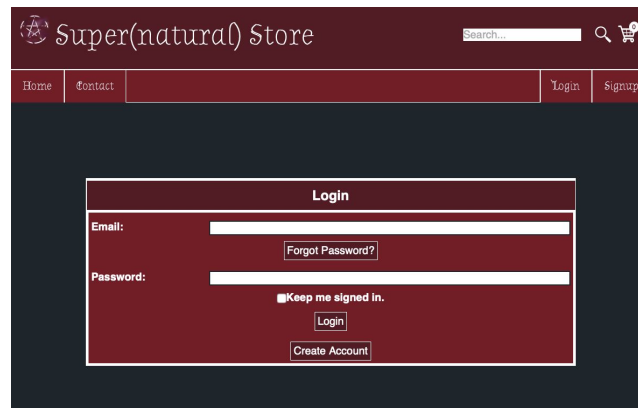
3.5 Login Page

You must be a user to make a purchase so trying to check while viewing as a guest will bring you to the login page. From here a previous user can enter account details to gain full access to our site. Email

address and password used for login. It also contains a link to create an account, recover password and gives the ability to keep users signed in.

Email: scottfazackerley@gmail.com

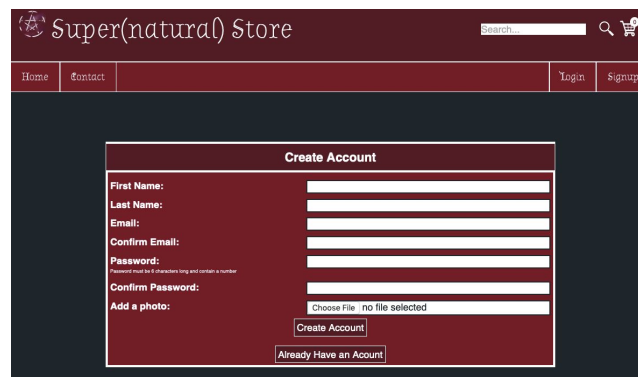
Password: Password1



The screenshot shows the 'Login' page of the 'Super(natural) Store'. The header is dark red with the store's logo and name on the left, a search bar in the center, and navigation links for 'Home', 'Contact', 'Login', and 'Signup' on the right. The main content area is dark blue. A white-bordered box in the center contains the 'Login' form. The form has fields for 'Email:' and 'Password:', a 'Forgot Password?' link, a 'Keep me signed in.' checkbox, and 'Login' and 'Create Account' buttons.

3.6 Create Account Page

Click create an account so you can check out. To create an account, you will have to provide first and last name, password twice and email address twice. Your password will have to meet certain requirements such as; be at least six characters long and contain one number. From this page you will also be able to navigate back to the main login page if you already have an account. From here, you can enter your info to create an account we did use your ubc email to make an admin account so that email will be taken.



The screenshot shows the 'Create Account' page of the 'Super(natural) Store'. The header is identical to the login page. The main content area is dark blue. A white-bordered box in the center contains the 'Create Account' form. The form has fields for 'First Name:', 'Last Name:', 'Email:', 'Confirm Email:', 'Password:', 'Confirm Password:', and 'Add a photo:'. There is a note below the password field: 'Password must be 6 characters long and contain a number'. Below the 'Add a photo:' field is a 'Choose File' button showing 'no file selected'. At the bottom of the form are 'Create Account' and 'Already Have an Account' buttons.

Now that you are signed in you will be able to checkout and the previously added items are kept in the cart. Before you checkout click on Contact in the header to find questions and contact information.

3.7 Contact

Users can find information on how to contact the site administrator if they have problems with our page or a purchased item. There are also some frequently asked questions to answer any questions about your order.

Super(natural) Store

Home Contact Login Signup

FAQ

How can I cancel an order?
If you'd like to cancel an order you can contact us with the Products and Orders phone number. Cancellations must be made before the item has shipped.

How long will it take for my order to arrive?
Orders should arrive within 5 to 10 business days depending on location.

Can I return a product?
Returns can be made on all gear for a full refund by calling our Products and Orders number. All supernatural creatures are final sale, buyer beware!

Contact Us

Products and Orders: 250-555-5555
Company phone: 250-555-5555
Store Location
Vancouver 1015 Burned St.

3.8 Checkout

If you have all the desired products you'd like you can now check out. Click on the shopping cart and then checkout. This time you will be brought to the checkout page. From here you must fill out your shipping info and choose a shipping method. This page will show the products in your cart and a cost summary including delivery and tax.

Super(natural) Store

Home Contact Login Signup

Shipment

First Name:
Last Name:
Country:
Province:
Town:
Street:
Postal Code:
Phone Number:
Email:
Select Delivery Method
Standard (\$0.00)
Droptail (\$100.00)
Instantaneous (\$250.00)

Summary

Subtotal: \$7990.89
Delivery: \$0.00
Taxes: \$945.91
Total: \$8937.80

Shopping Cart

Product name: Bloody Mary
Price: 7990.89
Quantity: 1

Payment

Once you fill out the form click continue to payment.

Super(natural) Store

Home Contact Login Signup

Payment

Payment Method:
Name On Card:
Card Number:
Expiration Date:
Security Code:

Summary

Subtotal: \$7990.89
Delivery: \$0.00
Taxes: \$945.91
Total: \$8937.80

Shopping Cart

Product name: Bloody Mary
Price: 7990.89
Quantity: 1

Now, fill out your payment information and confirm checkout. If you have added payment info to your account details clicking checkout with saved payment allows you to purchase with previous payment information.

Super(natural) Store

Home Contact Login My List

Your Order Summary

Product ID	Product Name	Quantity	Price	Subtotal
21	Bloody Mary	1	\$7890.89	\$7890.89
Product Total:				\$7890.89
Shipping Total:				\$0.00
Order Total:				\$7890.89

Order completed. Will be shipped soon...

Your order reference number is: 26

Shipping to customer: 7, Name: first e

Test a Store
Total 0 items

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You will be taken to an order summary page with details about your purchase including products, purchase total, a reference number and account name.

3.9 Account Details

Now that we have completed an order, click on your name in the top right. Here a logged in user can find their order history, payment settings, change password, and sign out. If you have items in your cart currently they will also appear here. When sign out is hit it will go back to login page. Account details button is not available unless logged in, where login button becomes account details.

Home Contact Login My List

Account Details

Order History

Order ID	Total Price	Tracking Number
26	\$7890.89	26

Payment Info

Payment Method:

Name On Card:

Card Number:

Expiration Date:

Security Code:

Format: XXX

Save Card

Change Password

Current Password:

New Password:

Repeat new password 8 characters long and contain a number

Confirm Password:

Change Password

Sign Out

Shopping Cart

Your Shopping Cart is empty!

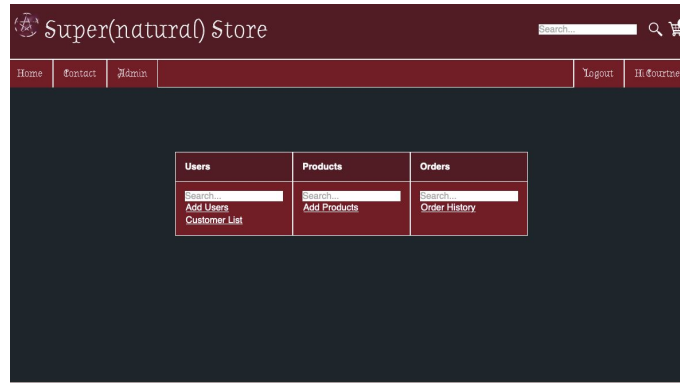
3.10 Administration

Our website also offers an administration page to edit the store. You need to log in using an administrator account in order to access the admin tab in the header. Log in using:

Email: *scott.fazackerley@ubc.ca*

Password: *Password1*

As an administrator you can click on admin on the header in the top left. This will bring up the main admin screen to edit users, products, and orders.

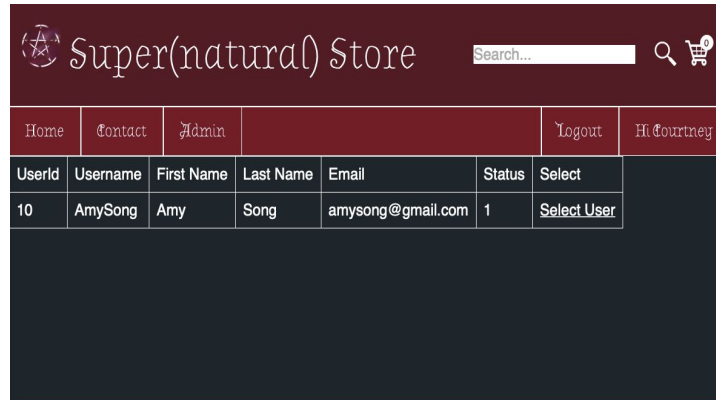


Click on Add Users under the users column. This brings up the option to add a user to the site by filling out all account details.

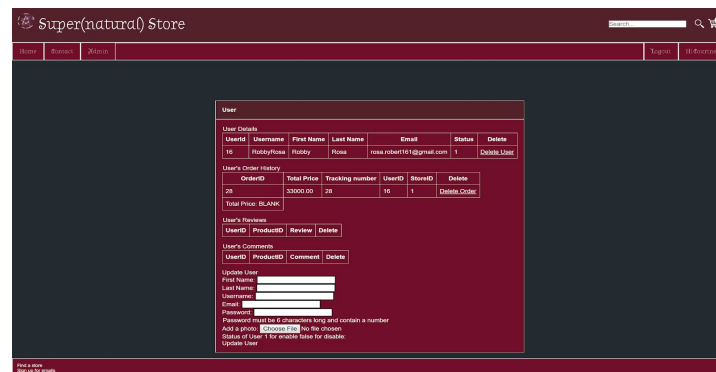
Now go back to the admin page and click on customer list. This will bring up a list of all users, and their account details, that have created an account on our site who are a customer.

Userid	Username	First Name	Last Name	Email
2	Customer	Bob	Builder	bobbuilder@hotmail.com
3	Customer2	Bobby	Builder	bobbuilder96@hotmail.com
4	BryanD	Bryan	D	@BD
5	CourtneyGosselin	Courtney	Gosselin	courtneygosselin1996@gmail.com
6	PoopUser	Daniel	Donald	DD@hotmail.com
7	linac	lina	c	lcamp@
8	RobynWinchester	Robyn	Winchester	r.winchester@hotmail.com
9	FrankWhy	Frank	Why	youdothis@tome
10	AmySong	Amy	Song	amysong@gmail.com
15	CourtneyGosselin	Courtney	Gosselin	courtney@gmail.com

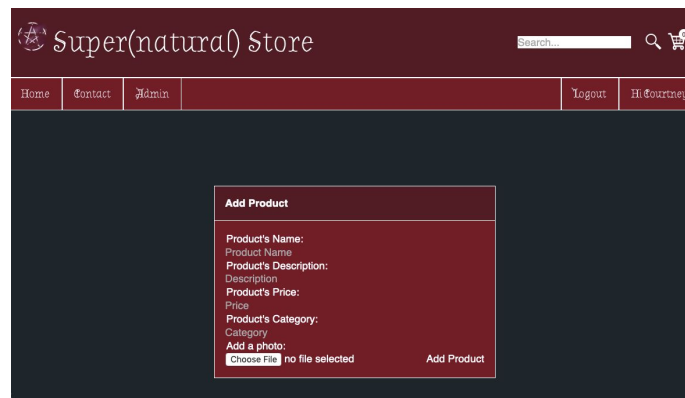
Go back to the admin page and search Amy under users. The search bar allows search of any users by username, first and last name, and email. Click Select User.



This page allows complete editing of the selected user. The admin can change any user details, view their order history, and remove any comments created by that user. You can also delete the user and if that customer attempts to login after it will not be allowed.



Return to the admin page and go to Add Product under products. From here you can add a product to the database which will then appear on the site. You can add all the details including name, description, price, and category. An image of the product can also be added.



Return to admin and under products search ghost. The search bar under products allows you to search for any products by name or category. You can then select a product and it will show all details for that product. Now click Select Product for Bloody Mary.

Super(natural) Store						
Home	Contact	Admin				
Product ID	Product Name	Description	Price	Category	Select	
15	Average Male Ghost	Ghosts, also called Spirits, are souls of deceased humans that did not go with their reaper to Heaven or Hell and are stuck on Earth.	2000.00	Ghost	Select Product	
16	Average Female Ghost	Ghosts, also called Spirits, are souls of deceased humans that did not go with their reaper to Heaven or Hell and are stuck on Earth.	2000.00	Ghost	Select Product	
17	Premium Male Ghost	Ghosts, also called Spirits, are souls of deceased humans that did not go with their reaper to Heaven or Hell and are stuck on Earth. Average ghosts are hard to control however our premium vampires have extensive training.	4987.00	Ghost	Select Product	
18	Premium Female Ghost	Ghosts, also called Spirits, are souls of deceased humans that did not go with their reaper to Heaven or Hell and are stuck on Earth. Average vampires are hard to control, however our premium vampires have extensive training.	4987.00	Ghost	Select Product	
19	Casper	Who needs a pet when you could have this sweet little guy as your companion.	5000.00	Ghost	Select Product	
20	Beetle Juice	This mans specialty is haunting, if you need a good spook I believe you know what to say: Beetle Juice, Beetle Juice,	3456.00	Ghost	Select Product	
21	Bloody Mary	Do not be fooled by the product image this is not an alcoholic beverage. We could not show an image as we did not have a mirror as she only appears when her name is chanted repeatedly in a mirror.	7890.89	Ghost	Select Product	
22	Slimer	This is the one and only slimer from the Ghostbusters original series!	3456.67	Ghost	Select Product	
23	Women in White	A female ghost dressed in all white reportedly seen in rural areas and associated with some local legend of tragedy	10987.00	Ghost	Select Product	

You will be shown all details for that product and can fully edit it. You can update any details, remove reviews from the product and even completely delete the product from the site with Delete Product.

Super(natural) Store

Home

Contact

Admin

Logout

My Account

Product

Product Details

Product ID	Product Name	Description	Price	Category	Delete
90	Lamb's Blood	Lamb blood is the blood of a lamb	23.00	Gear	Delete Product

User's Reviews of Product

UserID	ProductID	Review	Delete
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Update Product

Product Name

Description

Price

Category

Choose File

No file chosen

Update Product

On the admin page click on Order History. This displays all orders that have ever been purchased on the site including a sum of the total revenue. Finally, in the search bar under orders you can search for any orders by user or order ID.

Super(natural) Store					
Home	Contact	Admin			
OrderID	Total Price	Tracking number	UserID	StoreID	
1	2256.93	1	4	1	
2	50.99	2	4	1	
3	1001.49	3	4	1	
4	1002.48	4	4	1	
5	0.99	5	4	1	
6	1501.98	6	4	1	
7	55.97	7	4	1	
8	500.99	8	4	1	
9	52.48	9	4	1	
10	1000.00	10	4	1	
11	1550.99	11	4	1	
12	1500.99	12	4	1	
13	501.49	13	4	1	
14	1050.99	14	4	1	
15	3205.95	15	4	1	
16	86893.00	16	4	1	
18	1678.00	18	4	1	
19	6912.29	19	4	1	
20	11345.99	20	4	1	
25	7890.89	26	7	1	
27	0.50	27	16	1	
28	33000.00	28	16	1	
Total Revenue: 163002.38					

4. Implementation

PHP:

- **accountDetails.php:** View order history including: orderID, totalPrice, and trackingNumber. This page is also user to change your payment information, which uses a form and uses check-payment.js to validate inputs, and if valid send you to savePayment.php. Change

password is implemented on this page and sends you to changePass.js to validate the information, and then the form sends you to changePass.php. The page also contains the current shopping cart which is pulled from the session variable. You are able to update quantity and delete

- **Add.php:** Is secure and only admin can see. Accepts forms from admin pages and adds for user or products
- **addToCart.php:** Checks to see if a session product list already exists if not it creates a new one. Validates that we have enough stock of the selected item, and if we have enough it adds it to the cart. Sets the cart to a session variable
- **Admin.php:** Validates the user is an admin. User: The search sends you to userInfo.php and allows you to search users by: name, email, and post. As well as add user button which uses userInfo.php to add new user. You can also obtain all users using the customer list button. Product: The search sends you to productsInfo.php and allows you to search by category or product name. A button to add products that sends you to productForm.php that allows you to create new products. Order: The search sends you to ordersInfo.php and allows you to search for an order. Shows all the orders ever made.
- **Cart.php:** Gets cart items from Session product list. It sums the totals of all products and displays total price. Also allows you to increase and delete quantity. From this page you can checkout or continue shopping
- **ChangePass.php:** Used to change your password it accepts a form from accountDetails. Makes sure that your current password is correct then changes your password to the new password you put in.
- **Checkout.php:** It makes sure you're logged in with a valid account. Then there is a form to accept shipment information which is validated by checkout-shipment.js then sends the form to checkoutShipping.php. A form that sends you to checkoutNewPayment.php which is validated by checkout-payment.js. At the bottom of that form there is an option to use previously saved payments. There is a summary on the right hand side that has your subtotal, delivery cost, taxes, and total. Below that is your current shopping cart which allows you to delete products and increase quantity
- **checkoutNewPayment.php:** This accepts your payment method from checkout.php if you input a new one it first checks if you already have a payment method saved if so then it will update it otherwise it will just insert a new one. This page then sends you to order.php.
- **checkoutOldPayment.php:** During the checkout if you decide to use an old method this page will validate you have an old payment method, if not it will send you back to checkout.php. This page then sends you to order.php if you already have a payment method
- **checkoutShipping.php:** Obtains all the values from the checkout shipping form and sets all of them to session variables and reverts back to checkout so you can continue inserting payment
- **contact-FAQ.php:** Provides the commonly asked questions and store location
- **createAccount.php:** This is a form that is validated by createAccount.js and then sends you to createAccountPHP.php
- **createAccountPHP.php:** Accepts the values from the form and validates that the email is not already in use. If it is not in use then it will insert them into user and customer in the database. The password was saved in the database using MD5
- **customerList.php:** Gets all customer from the database

- **Delete.php:** Is secure and only admin can access. You can delete orders, users, products and comments
- **forgotPassword.php:** Insert an email and it sends you to forgotPasswordPHP.php
- **forgotPasswordPHP.php:** Makes sure that this the inserted email has an account. Then resets the password to a random generates 6 character string, sent by mail via PHPmailer to that email.
- **individualProducts.php:** This page accepts a get from the products page and brings up the product with that product ID from the database. Displays all information about product and abilities to see past comments as well as comment on it if you have not commented already. You can also add to cart from this page and continue shopping
- **Login.php:** A login page that is validated by login.js and sends you to loginPHP.php
- **loginPHP.php:** Checks to see if the email is valid, if so obtains the password and compares it to the password entered. Also restores cart session
- **Logout.php:** This page saved the items in your current cart to the database. Unsets session email which signs you out
- **Order.php:** Contains the shipping information from session. Sets the price of shipping. Inserts into shipping all the information. Clears shipping sessions. Inserts into order. Inserts into inOrder all the products that were ordered. Makes sure our store has enough stock for the order. Decreases the stock at the store for the individual item. Prints out an order summary and clears the product list
- **orderDetails.php:** Secure only admins can see this page. This prints out the information of the orders selected. Gives you the ability to delete the order
- **orderList.php:** Secure only admins can see this page. Shows a list of all the orders and the revenue we have made as a company
- **ordersInformation.php:** Secure only admins can see this page. Shows a list of orders that have been searched that the admin can then select
- **productDetails.php:** Secure only admins can see this page. Gives information about the desired product allows you to delete the product as well as see comments. It also allows you to update the product
- **productForm.php:** Secure only admins can see this page. A form to fill out for adding a product
- **Products.php:** This shows all the products, if you click on the image of a product it shows the individualProduct.php page. You can add to cart from here. It also shows the image, price, and name of the product. Based on a selection in the side bar this page will show the top 5 most sold items in descending order. It also has a sort by features that sorts price in high low or low high, as well as having different categories or search by product name or category
- **productsInformation.php:** Secure only admins can see this page. This page shows you the products based on your search with their information and the ability to select the one you are looking for
- **Reviews.php:** This page allows you to write a comment on an individual product and saves this comment to the database with the userID, pID, and the comment. Can only write one comment on a individual product
- **savePayment.php:** This page is accessed via the accountDetails page and is used to change your payment information. If your payment information is already set it updates it otherwise it inserts it

- **Update.php:** Is secure and only admin can access, used to update users and products
- **UpdateQuantityCart.php:** It accepts a product id and quantity. It checks if we have enough in stock otherwise it will not add it to cart.
- **UpdateQuantityCheckout.php:** The same as above but for checkout
- **UserDetails.php:** This page is secured and only admin can access it. It will display the users details. Also gives the ability to delete user, their orders and their comments.. This page also has an update option, only required to fill in information you want to change
- **userForm.php:** This page is secured and only admin can access it. Allows you to insert a new user
- **usersInformation.php:** This page is secured and only admin can access it. This provides all the users based on the search allowing you to select the desired user you can do this by first name, last name, or email. More details are given once you select the user you want

Includes

- **Db_credentials.php:** Includes our database credentials
- **Exception.php:** For PHPMailer
- **File.php:** Also for sending mail uses smtp.gmail.com
- **Footer.php:** Is the footer of a website. Provides links to areas and allows for connection to potential social media options
- **Header.php:** The header is included on all of our pages. It shows the number of items that are in your cart with a little icon. If you are not logged in it allows you to go to home, contact, login, and signup it also has a search bar and a cart
 - **Logged in:** When you login the login becomes logout. Signup becomes account details
 - **Admin:** When signed in as a valid admin you get an admin button as well
- **PHPMailer.php:** Involves PHPmailer for sending the password reset
- **productSidebar.php:** Includes all the sidebar information and links them to the narrowed down products.php page with the specific category or selection
- **SMTP.php:** More PHPMailer information

JavaScript

- **changePass.js:** Makes sure the new password matches the length 6 and has a number. The new password matches the confirm password
- **Checkout-payment.js:** Makes sure that all fields are filled out. Makes sure the first number of the card matches the type. Makes sure the security code is of length 3
- **Checkout-shipment.js:** Makes sure all fields are filled out. Makes sure the email has an @
- **createAccount.js:** Makes sure all the fields are filled out. Makes sure the email has an @. Makes sure email matches the confirm email. Makes sure password matches confirm password. Makes sure password has a length 6 and a number
- **Login.js:** Makes that the email is inserted and that a password is inserted
- **savePayment.js:** Does everything checkout-payment.js does

4.4 Limitations and Issues

We would have liked to implement more AJAX, however we ran out of time. We would like to implement ajax in an attempt to make our comments on the individual product pages asynchronous. Could add more validations on inputs such as credit cards, names, and towns. Pages load fairly slowly this could be due to the image sizes.

5. Deployment Automation

5.1 Deployment and Automation

The site is being deployed on **supernaturalstore.worobetz.ca** during the making of the website we were pulling from github to the server. After the final days of our website was implemented with a webhook.

5.2 Version Control

During the making of the site we used GitHub we had our main master branch, develop (@CourtneyGosselin), lina (@lcamp30), robby had various branches. Throughout this we would merge to each other branches and to master. Of course since many of us had never used github before we had to deal with the odd merge conflict. It was also interesting seeing how each of us worked some of us used command line only whereas others used atom and GitHub. We scheduled times to meet together to see progress of each others pages we were each assigned a main three pages and would help each other if one of us got stuck.

5.3 Unit Testing

Prepared statements were used to avoid SQL injection and a try catch for the database connection was used, with proper db_credentials. Our pages also assured that if only posts were used that gets were blocked. We also made it so the buttons on our site work as an individual would assume would interact correctly with the database. We went through the process of creating, updating and deleting all forms of items stored in the database and assured they were adding properly. We started to do client client side testing with Jest and server side testing with PHPunit, however we ran out of time and did not add this to our final product.