**University of British Columbia**COSC 304: Introduction to Databases

**Santam’s Steezy Skis**Santam Bhattacharya  
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A person skiing down a slope

Description automatically generated

GitHub Repository Link:

<https://github.com/TheDarkKnight04/cosc304_project>

<http://localhost/shop/home.jsp>

Mission statement :

“To fuel your passion for winter sports by providing the highest quality ski equipment and gear.”

Executive summary :

We strive to be a dynamic and customer centered ski equipment store, dedicated to enhancing the skiing experience of enthusiasts and adventurers. Founded by a team of passionate skiers, our store caters to individuals of all skill levels, offering a comprehensive range of high-quality ski equipment and gear.

Our commitment is to create a one-stop destination for skiers of all levels, where they can find the latest innovations, reliable gear, and expert advice to conquer the slopes. We aim to inspire, educate, and support our customers, ensuring they have the best equipment to ride the slopes.

With an unwavering dedication to customer satisfaction, we promise to deliver exceptional service, unbeatable product knowledge, and a seamless online shopping experience.

**Goals** :

* Getting customers the right gear – from the start.
* Offering the highest quality ski equipment and gear to ensure safety and enjoyment on the slopes.
* Have a friendly and knowledgeable staff provide expert advice and product knowledge to assist customers in making informed decisions.
* Fostering a sense of belonging and shared enthusiasm among skiers.
* Offering convenience and a wide selection, supported by a team of passionate skiers.

Future Targets :

* Expand our product line to include more winter equipment.
* Offer shipping in other countries, starting with the United States.
* Offer a selection of hiking shoes, boots, shells during the summer.

2. System Features

Development Project Features List Template

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Final Overall System Features** | **Category** | **Possible Points** | **Points** | **Comments / Code Files** |
| **Documentation (15 total points)** | | | | |
| Executive Summary (up to 1 page) | Core | 2 |  |  |
| System Features (2 pages) | Core | 2 |  |  |
| List of Web and AI sources used | Core | 3 |  |  |
| Walkthrough with screenshots (up to 15 pages) | Core | 8 |  |  |
|  | | | | |
| **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 |  | listprod.jsp, product.jsp |
| Page header with menu | Basic | 1 |  | page.jsp |
| Page header shows current logged in user | Basic | 1 |  | page.jsp |
| Improved UI (user-friendly, images, etc.) | Basic | 2 |  | Every page |
|  | | | | |
| **Shopping Cart (up to 8 total points)** | | | | |
| Add to shopping cart | Core | 1 |  | listprod.jsp, product.jsp, addcart.jsp |
| View shopping cart | Core | 1 |  | showcart.jsp |
| Update quantity (with data validation) | Basic | 1 |  | showcart.jsp |
| Remove item from shopping cart | Basic | 1 |  | showcart.jsp |
| Improved formatting/UI (e.g. in header bar) | Basic | 1 |  | No. of items in cart displayed throughout entire website. |
|  | | | | |
|  | | | | |
|  | | | | |
| **Checkout (up to 9 total points)** | | | | |
| Checkout with customer id | Core | 1 |  | order.jsp |
| Checkout with payment/shipment info | Basic | 2 |  | order.jsp |
| Checkout with data validation | Basic | 2 |  | order.jsp |
| Calculate taxes/shipping (by items/state) | Advanced | 2 |  | showcart.jsp, order.jsp. Modified database to store tax rates by province |
|  | | | | |
| **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 |  | customer.jsp |
| Create account with data validation | Basic | 2 |  | newUser.jsp, createUser.jsp |
| Edit user account info (address, password) | Basic | 2 |  | editcustomer.jsp |
| Login/logout | Core | 1 |  | login.jsp, validateLogin.jsp, auth.jsp |
| Page listing all orders for user | Core | 1 |  | listorder.jsp |
|  | | | | |
| **Product Reviews (up to 5 total points)** | | | | |
| Ability to enter a review on a product | Basic | 2 |  | listreview.jsp, review.jsp |
| Display product review on product detail page | Basic | 1 |  | product.jsp |
| Restrict to one review per user on item purchased | Advanced | 2 |  | listreview.jsp, review.jsp |
|  | | | | |
| **Warehouses/Inventory (up to 5 total points)** | | | | |
| Display item inventory by store/warehouse | Basic | 2 |  | warehouse.jsp |
|  | | | | |
| **Administrator Portal (up to 19 total points)** |  |  |  |  |
| Secured by login | Core | 1 |  | auth.jsp, login.jsp |
| List all customers | Core | 1 |  | customeradmin.jsp |
| List report showing total sales/orders | Core | 1 |  | salesrep.jsp |
| Add new product | Basic | 2 |  | editproduct.jsp, productadmin.jsp |
| Update/delete product | Basic | 2 |  | editproduct.jsp, productadmin.jsp |
| Change order status/ship order | Basic | 1 |  | listorderadmin.jsp, ship.jsp |
| Upload a photo to file system for product | Advanced | 2 |  | editproduct.jsp, productadmin.jsp |
| Database restore with SQL script | Basic | 2 |  | admin.jsp, loaddata.jsp |
| Add/update warehouse, customer | Basic | 2 |  | editwarehouse.jsp, warehouseadmin.jsp, customeradmin.jsp, editcustomer.jsp |
|  |  |  |  |  |
| **Database System/General** |  |  |  |  |
| User interface and navigation/usability |  | Up to 5 |  |  |
| *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.)** |  |  |  |  |

3. List of Web Sources

Picture on front page of report : (2023). Five Best Ski Resorts to Visit in 2023. <https://sometimetraveller.com/web-stories/5-best-ski-resorts-to-visit-in-2023/>

Picture on home page of website: (2023). <https://www.wallpaperup.com/536230/SKIING_winter_snow_ski_mountains.html>

For styles and design of the website: Bootstrap CSS. <https://getbootstrap.com/>

For all products, product names, prices, images and descriptions : Skier’s Sportshop Edmonton. <https://skierssportshop.com/>

4. Project Walkthrough

The website must be run locally. Link to the GitHub is provided below.

<https://github.com/TheDarkKnight04/cosc304_project>

<http://localhost/shop/home.jsp>

Testing user id : arnold

Testing password : 304Arnold!

|  |  |
| --- | --- |
| Homepage  When you first enter the website, you will find yourself at the homepage, with links to a lot of different web pages.  The first thing you should do is click on the Load data link at the bottom of the website to load the database. Return to the home page. | A screenshot of a computer  Description automatically generated |
| Product List  A user who isn’t logged in may view the list of products, but when they try to add a product to the shopping cart, or click on any other link, they’ll be prompted to log in. Includes a comprehensive search function that also allows filtering by category. | A screenshot of a computer  Description automatically generated |
| Create Account Page  New users have the option to sign up and create an account by clicking on the sign up button.  They must pick their own user ID and password, however, the User ID must not already be taken.  After filling this form with valid data, they are prompted to log in. | A screenshot of a computer  Description automatically generated |
| Login  Users use their username and password to log in to the website. Once logged in, their username is displayed on the top right throughout the website.  Use provided credentials. If it doesn’t work, load database again. | A screenshot of a login page  Description automatically generated A screen shot of a computer screen  Description automatically generated |
| Product Pages  The complete list of products sold on the website are displayed after clicking on the Products link in the header. Click on any product name to see further details. The ‘Add to Cart’ option directly adds the item to the shopping cart. | A screenshot of a website  Description automatically generated |
| Shopping Cart  Users are taken to their shopping cart every time a new item is added. Otherwise, it can be accessed at any time by clicking on the Cart option from the header.  The Cart icon displays the number of items in the user’s cart throughout the website. It gets cleared when the user either logs out or checks out.  Depending on the state the user is registered in, the appropriate taxes are applied to the users items. For example, for a user in BC, PST and GST will be applied, whereas a resident of Alberta will only see the GST.  Users can remove items from the cart by clicking on the corresponding link. They can also change the quantity of products by typing in the required amount and selecting Update Quantity. | A screenshot of a computer  Description automatically generated  A blue text on a black background  Description automatically generated  A screenshot of a shopping cart  Description automatically generated  Customer in Manitoba  A screenshot of a shopping cart  Description automatically generated  Customer in Alberta |
| Check Out  After adding some items to your cart, click on Check Out to process your order.  This displays an order receipt including your items, total including tax and your order ID. | A screenshot of a computer  Description automatically generated |
| Customer Order List  Clicking on the Orders link in the header takes the user to their order history. Here they can see all their orders. | A screenshot of a computer  Description automatically generated |
| Customer Portal  The Customer can go into the customer info page using the Customer Info link in the homepage or by clicking on their userid in the header.  This page displays all customer information.  They can change their email at any time by simply typing it in and clicking the Update button.  For changing other details, they’ll need to click the Edit Profile Button and make necessary changes. | A screenshot of a computer  Description automatically generated  A screenshot of a computer  Description automatically generated |
| Review  Customers are encouraged to leave reviews on the items they purchased by clicking on the Feedback button in the customer page.  Only products they have purchased can be selected from a drop-down list. They may also select an appropriate rating as well as leave a comment before publishing the review. This review gets added to the review on the product page.  Each customer may review a product only one time. Subsequent reviews about the same product aren’t published. | A screenshot of a computer  Description automatically generatedA screenshot of a website  Description automatically generated |
| Administrator Portal  Inside the portal, administrators can access a variety of tools and functions. This page is accessed by the link in the homepage and checks login.  The administrator can Reset the Database at any time by clicking on the Reset Database link. | A screenshot of a computer  Description automatically generated |
| Administrator Product List  Click on Products under ‘Manage Products’. Here the administrator can view the complete list of products sold by the store.  The administrator can delete or update existing products or even add new products.  It carries out data validation as well. For example after trying to edit the Smith Goggles in the screenshots, we get the errors as shown if leave the price and Category blank. Similar validation is done for Product Name and description and also for adding new products.  The image field may be left blank. | A screenshot of a website  Description automatically generated A screenshot of a computer  Description automatically generated  A screenshot of a computer  Description automatically generated  A screenshot of a computer program  Description automatically generatedA screenshot of a computer  Description automatically generated |
| Administrator Customer List  Click on the customers link in the admin portal. This page contains the list of all customers registered in the website as well as their details.  The administrator possesses the ability to change and update any customer’s details by clicking on the edit customer button.  By clicking on the ‘New Customer’ Button, the customer can also add a new customer to the system. This option can also be accessed directly from the administrator portal. It operates like new users signing up using the sign-up option. It ensures that two or more customers don’t have the same userid.  Other data validation systems are also in place, both for editing and updating customer details. | A screenshot of a website  Description automatically generated  A screenshot of a computer  Description automatically generated A screenshot of a computer  Description automatically generated |
| Administrator Warehouse List  After clicking on the Warehouses link in the admin portal, the administrator can view the list of warehouses/stores.  A new warehouse can be added using the New Warehouse button. They may also be edited by clicking on the Edit button.  Data validation is carried out to ensure valid Warehouse Names are entered.  By clicking on the name of the warehouse, they may view the products in stock in that warehouse as well as the quantity of those products. | A screenshot of a warehouse  Description automatically generated  A screenshot of a product inventory  Description automatically generated  A screenshot of a computer  Description automatically generated |
| Administrator Sales Report  Accessed from the admin portal, it lists the total revenue generated on different dates. | A screenshot of a computer  Description automatically generated |
| Administrator Order List  Here the administrator can view the complete list of orders by all customers.  They may also ship any order by selecting the Ship order link next to it. | A screenshot of a computer  Description automatically generated  A screenshot of a black and white screen  Description automatically generatedA screenshot of a computer  Description automatically generated |
| Administrator Reset Database  Click on this to reset the database to the way it originally was. |  |
| Help and About Us  Miscellaneous notes and decorative text. | A screenshot of a computer  Description automatically generated  A screenshot of a website  Description automatically generated |