**COSC 304: Introduction to Databases**

**December 2023**

**Design Documentation For**

**AJ SPORTS**

**Group 23**

Adam Delfs

Jolo Sesbreno

**GitHub Repository Link**

**Online Cloud Link**

**Mission Statement**

For sports lovers and physical activity doers alike, AJ SPORTS aims to provide a broad variety of items and accessories at a convenient and accessible place. For any occasion, event, or activity, you are bound to find the item that is just right for you!

**Executive Summary**

Here at AJ SPORTS, we take great pride in sharing our passion for sports and making the items needed to make each activity fun as accessible as possible. We want to eliminate the time wasted of physically going, browsing, and going back to your home only for certain sporting goods and items. Our website will allow you to perform all of these steps at the comfort of your own home!

AJ SPORTS is a website where a user can log in their account (account creation pending), search and browse a variety of products, view each product description with images, select the products they want to buy, view their cart, and place their order to have their selected sporting products sent straight to their home! This simple and easy process ensures that convenience is maximize so that you can be lazy now as long as you’re productive when it matters more in the game!

Development Project Features List

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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 |  |  |
|  | | | | |
| **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 | 1 |  |
| Browse products by category | Core | 1 | 1 |  |
| List products (by search/browse) | Core | 1 | 1 |  |
| List products with image | Core | 1 | 1 |  |
| Page header with menu | Basic | 1 |  |  |
| Page header shows current logged in user | Basic | 1 | 1 |  |
| Dynamic products on page based on sales | Basic | 2 |  |  |
| Improved UI (user-friendly, images, etc.) | Basic | 2 |  |  |
| Product recommendation based on user | Advanced | 4 |  |  |
|  | | | | |
| **Shopping Cart (up to 8 total points)** | | | | |
| Add to shopping cart | Core | 1 | 1 |  |
| View shopping cart | Core | 1 | 1 |  |
| 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 | 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 | 1 |  |
| Product detail has an image from database | Core | 1 | 1 |  |
|  | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **User Accounts/Login (up to 12 total points)** | | | | |
| Create user account page | Basic | 2 |  |  |
| Create account with data validation | Basic | 2 |  |  |
| Edit user account info (address, password) | Basic | 2 |  |  |
| Login/logout | Core | 1 | 1 |  |
| Register user/Forgot password email | Advanced | 4 |  |  |
| Page listing all orders for user | Core | 1 |  |  |
|  | | | | |
| **Product Reviews (up to 5 total points)** | | | | |
| Ability to enter a review on a product | Basic | 2 |  |  |
| Display product review on product detail page | Basic | 1 |  |  |
| Restrict to one review per user on item purchased | Advanced | 2 |  |  |
|  | | | | |
| **Warehouses/Inventory (up to 5 total points)** | | | | |
| Display item inventory by store/warehouse | Basic | 2 |  |  |
| Edit item inventory by store/warehouse | Advanced | 3 |  |  |
|  | | | | |
| **Administrator Portal (up to 19 total points)** |  |  |  |  |
| Secured by login | Core | 1 | 1 |  |
| List all customers | Core | 1 | 1 |  |
| List report showing total sales/orders | Core | 1 | 1 |  |
| Report with a graph | Advanced | 3 |  |  |
| Add new product | Basic | 2 |  |  |
| 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 |  |  |
| *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.)** |  |  |  |  |

**Website Walkthrough**