



Project Completion

University of British Columbia – Okanagan Campus

COSC 304 – Introduction to Databases – Prof. Dr. Ramon Lawrence – 2024

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1. Introduction

1.1 Mission Statement

At LeagueCaps, our mission is to provide sports fans with a curated selection of baseball, football and basketball caps that combine style, quality, and authenticity. We are committed to delivering exceptional customer experiences, fostering a community of sports enthusiasts, and celebrating the vibrant culture of sports fandom.

1.2 Executive Summary

LeagueCaps is poised to become a leading provider of sports caps, catering to the growing demand for stylish, team-branded headwear. Our product offerings include officially licensed baseball and basketball caps, tailored for fans who value design, comfort, and representation of their favorite teams.

By leveraging modern e-commerce technology, LeagueCaps provides a user-friendly shopping experience, offering fast shipping and responsive customer service. Our initial market strategy focuses on targeting young adults and sports enthusiasts through digital marketing campaigns, social media engagement, and partnerships with sports influencers.

With a clear vision and a passion for sports culture, LeagueCaps aims to create a thriving community of loyal customers while achieving sustainable growth in the competitive sports merchandise market.



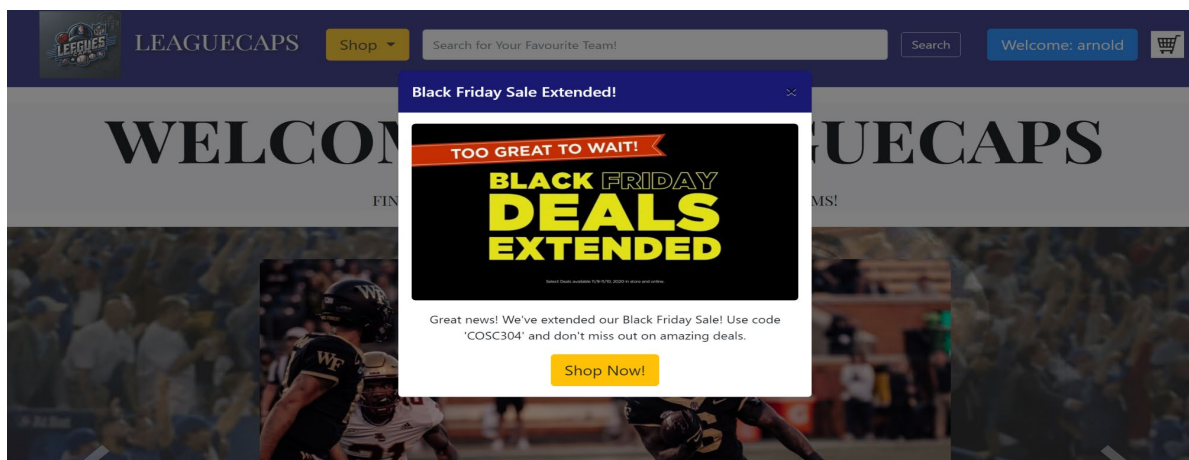
2. User Walkthrough

List of test users inserted into the customer table in the database using the DDL script:

| First Name | Last Name | Email | Phone Number | Address | City | State | Postal Code | Country | User ID | Password |
|------------|-----------|------------------------|--------------|----------------------|-----------|-------|-------------|---------------|---------|-------------|
| Arnold | Anderson | a.anderson@gmail.com | 204-111-2222 | 103 AnyWhere Street | Winnipeg | MB | R3X 4S7 | Canada | arnold | 304Arnold! |
| Bobby | Brown | bobby.brown@hotmail.ca | 572-342-8911 | 222 Bush Avenue | Boston | MA | 22222 | United States | bobby | 304Bobby! |
| Candace | Cole | cole@charity.org | 333-444-5555 | 333 Central Crescent | Chicago | IL | 33333 | United States | candace | 304Candace! |
| Darren | Doe | oe@doe.com | 250-807-2222 | 444 Dover Lane | Kelowna | BC | V1V 2X9 | Canada | darren | 304Darren! |
| Elizabeth | Elliott | engel@uiowa.edu | 555-666-7777 | 555 Everwood Street | Iowa City | IA | 52241 | United States | beth | 304Beth! |

Pop up Promo:

Upon opening the website you will receive a special black friday sale option which includes a discount code.

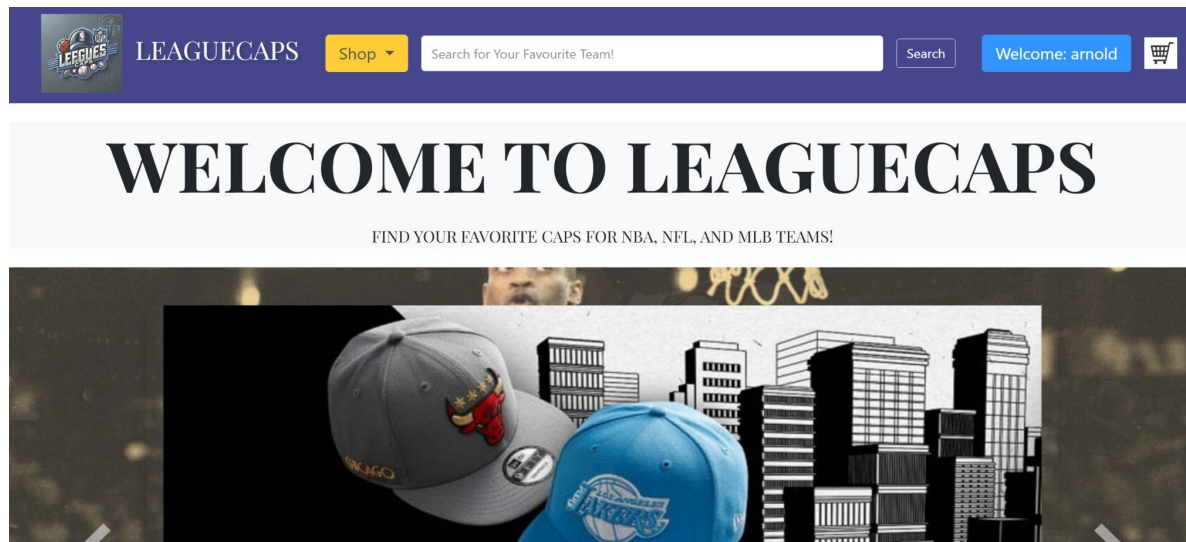


Homepage

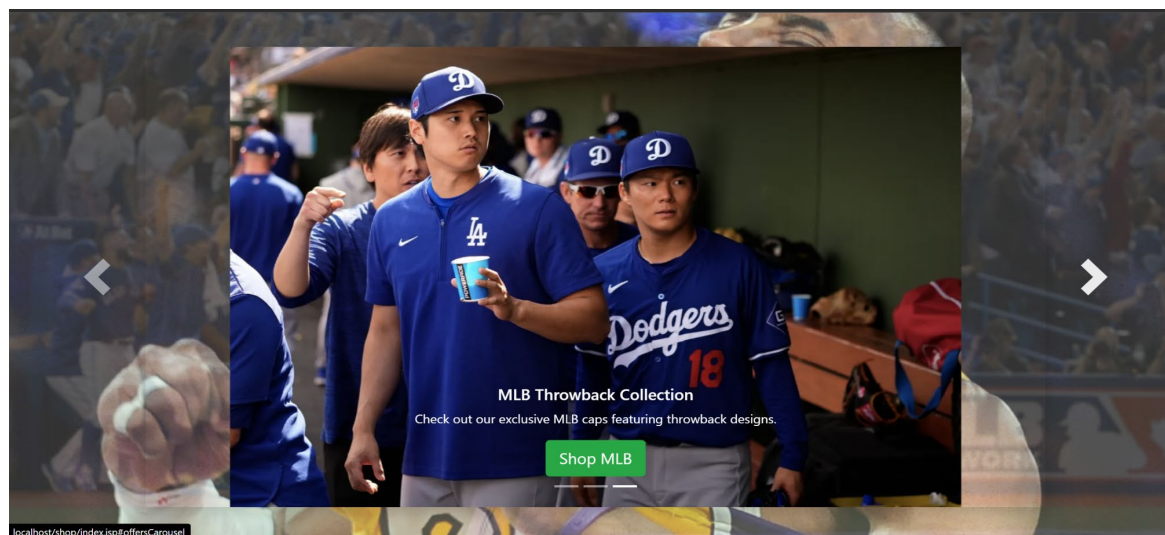
Below is a Screenshot of the website homepage (index.jsp):

The toolbar is consistent in all the pages in our website, you may click on “LEAGUE CAPS” to return to the homepage from any page

You may access the shopping cart at anytime by clicking on the shopping cart icon on the top right corner.




Below is the carousel view of the main page which indicates all 3 categories of Caps:




Below is the Dynamic best Sellers which show the caps with the hight number of sales:


Best Sellers



Seattle Seahawks
Official adjustable cap for Seattle Seahawks fans.
\$29.99
[View Details](#) [Add to Cart](#)




Golden State Warriors
Official adjustable cap for Golden State Warriors fans.
\$27.99
[View Details](#) [Add to Cart](#)




Green Bay Packers
Official adjustable cap for Green Bay Packers fans.
\$29.99
[View Details](#) [Add to Cart](#)

Below are the 3 categories of caps we sell:


Shop Your Favorite Sport



NBA



NFL



MLB

| | | | |
|--|---|---|---|
| About About Us Career Opportunities Affiliates | Shop Email Gift Cards Gift Card Balance Coupons Mobile App Student Discount | Support Contact Us Return Policy Sizing Help Store Locator | Legal Terms of Use Privacy Statement Accessibility Ad Choices Your Privacy Choices Modern Slavery Act Policy |
|--|---|---|---|

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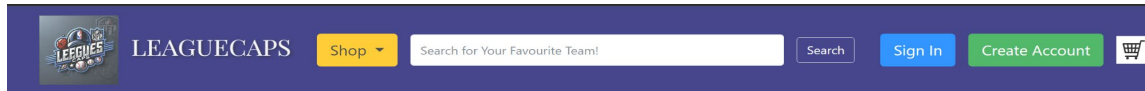
localhost/shop/listprod.jsp?category=NFL Caps

To begin shopping, you may click on the shop button on the toolbar, shop button on the carousel view, click on any of the caps in the dynamic best sellers section, or just select the from the 3 available categories.

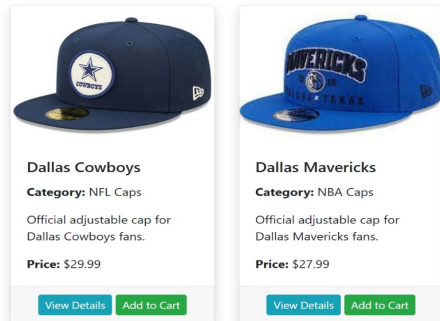


Search

You may use the search bar at the top of the homepage to search for a specific cap
(search “Dallas”): product.jsp



Search Results



When you click on view details, it takes you to the product detail page for the cap.

You may click on any of the 4 buttons



Shipping:



Dallas Cowboys

Price: \$29.99

Shipping

This item will ship within 2 business days.

Details

Description

Reviews

Write a Review

Add to Cart

Continue Shopping

Details:



Dallas Cowboys

Price: \$29.99

Shipping

Details

- Product ID: 1
- Brand: '47
- Imported
- Six panels with eyelets
- Embroidered graphics with raised details
- One size fits most
- Woven clip tag
- Material: 100% Cotton
- Wipe clean with a damp cloth
- Curved bill
- Adjustable fabric strap with snap button
- Low Crown
- Unstructured relaxed fit
- Officially licensed

Description



Description:



Dallas Cowboys

Price: \$29.99

Shipping

Details

Description

Wearing LeagueCaps ensures you're sporting officially licensed gear that lets you represent your favorite team with loyalty and pride. Show the world your true fandom!

Reviews

Write a Review

Add to Cart

Continue Shopping

Reviews:



Dallas Cowboys

Price: \$29.99

Shipping

Details

Description

Reviews

Rating: 5 / 5

Comment: I absolutely love this cap

Date: 2024-12-06 10:40:25.617

Write a Review


Add to Cart

Continue Shopping



You can click the Write a Review button on the detail page, this will direct you to review.jsp as long as you are logged in, have purchased this cap and you haven't already made a review on it.

Write a review about 'Dallas Cowboys'



Dallas Cowboys

Price: \$29.99

Description: Official adjustable cap for Dallas Cowboys fans.


Rating (out of 5):

Comment (up to 1000 characters):


This is the recommended caps for each user based on what you select on the detail page:

REP YOUR TEAM WITH PRIDE


Recommended for You




Dallas Cowboys
\$29.99
[View Product](#)



Boston Celtics
\$27.99
[View Product](#)



Chicago Bulls
\$27.99
[View Product](#)



Philadelphia 76ers
\$27.99
[View Product](#)

About

About Us
Career Opportunities
Affiliates

Shop


Email Gift Cards
Gift Card Balance
Coupons

Support

Contact Us
Return Policy
Sizing Help

Legal

Terms of Use
Privacy Statement
Accessibility

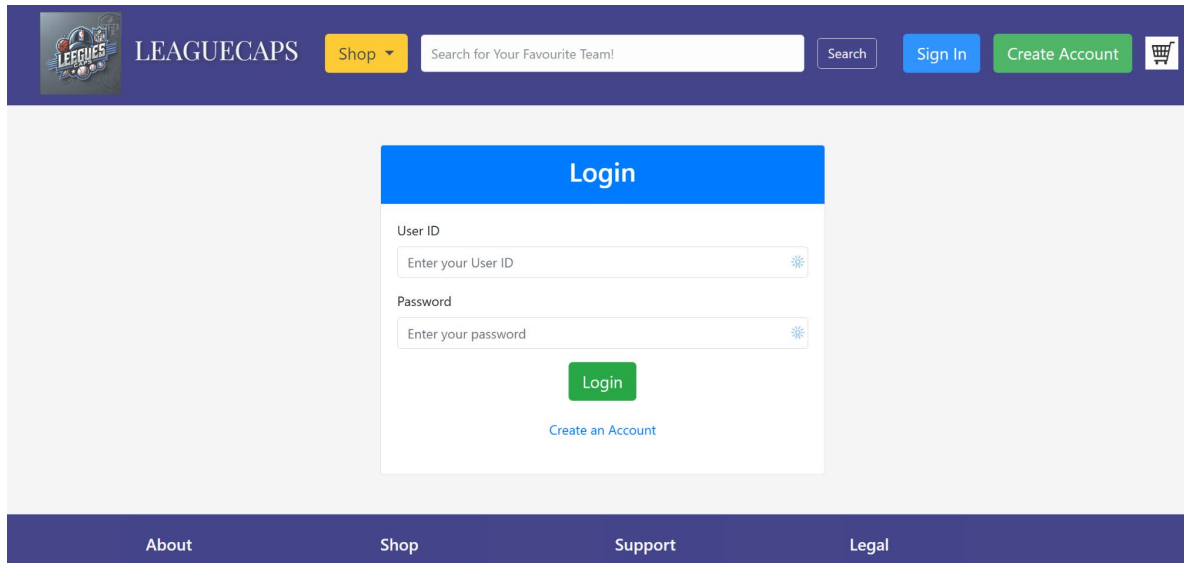


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Login

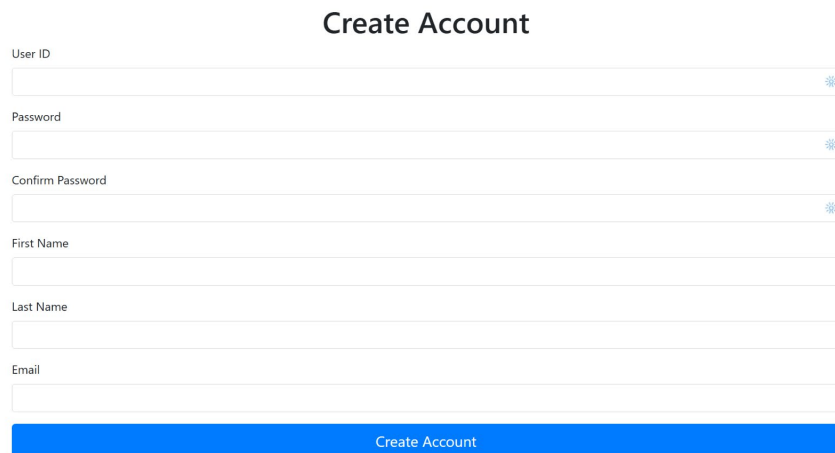
This is the login page: login.jsp



The screenshot shows the LeagueCaps website's login page. The header is dark blue with the LeagueCaps logo on the left, a 'Shop' button, a search bar with the placeholder 'Search for Your Favourite Team!', and buttons for 'Sign In' and 'Create Account' on the right. The main content area is light gray and features a white login form with a blue header 'Login'. The form has two input fields: 'User ID' with the placeholder 'Enter your User ID' and 'Password' with the placeholder 'Enter your password'. Below the fields is a green 'Login' button and a blue link 'Create an Account'. The footer is dark blue with links for 'About', 'Shop', 'Support', and 'Legal'.

Create Account

This is the create account page for those who don't already have an account with us: createAccount.jsp

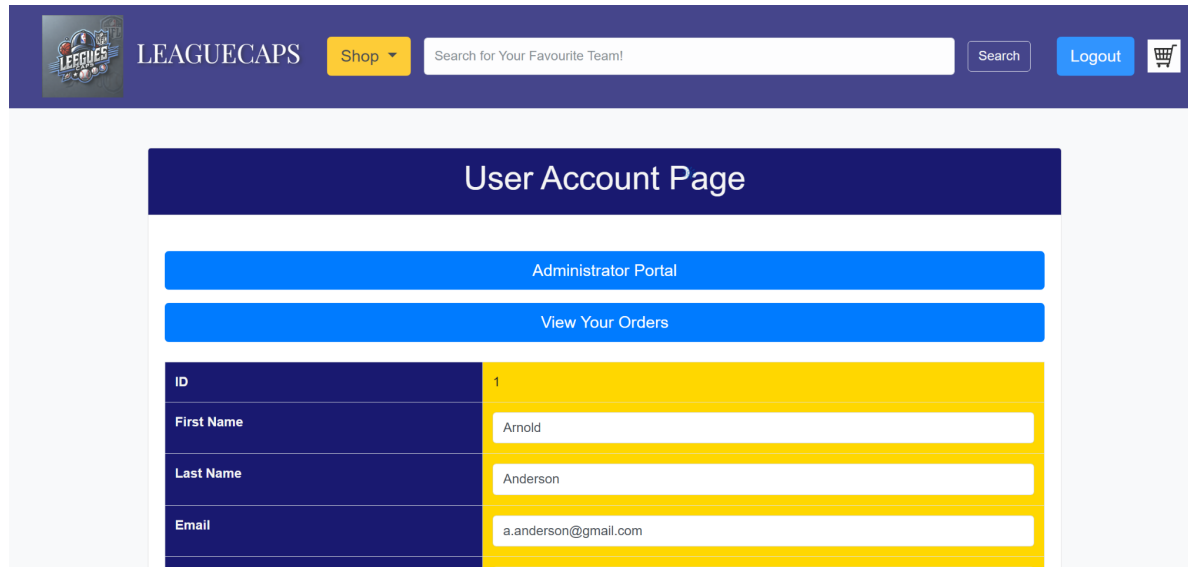


The screenshot shows the LeagueCaps website's create account page. The header is dark blue with the LeagueCaps logo on the left and a 'Shop' button on the right. The main content area is light gray and features a white form with a blue header 'Create Account'. The form has six input fields: 'User ID', 'Password', 'Confirm Password', 'First Name', 'Last Name', and 'Email'. Below the fields is a blue 'Create Account' button.



User Account page

This is the user account page, users must be logged in to access this page: customer.jsp



The screenshot shows the top navigation bar of the LeagueCaps website. It includes the LeagueCaps logo, a 'Shop' button, a search bar with the placeholder text 'Search for Your Favourite Team!', a 'Search' button, a 'Logout' button, and a shopping cart icon. Below the navigation bar, the 'User Account Page' is displayed. It features two blue buttons: 'Administrator Portal' and 'View Your Orders'. Below these buttons is a table showing user details for a logged-in user.

| ID | 1 |
|------------|----------------------|
| First Name | Arnold |
| Last Name | Anderson |
| Email | a.anderson@gmail.com |

If you click the Administrator portal, it takes you to the admin page: admin.jsp

This presents an order summary and a list of all the current customers in our database.

Admin Page

| Order Summary | |
|---------------|-------------|
| Order Date | Total Sales |
| 2019-10-15 | \$509.1 |
| 2019-10-16 | \$106.75 |
| 2019-10-17 | \$327.85 |

| List of All Customers | |
|-----------------------|-----|
| Arnold Anderson | |
| Bobby Brown | |
| Candace Cole | |
| ... | ... |



If you click on the “View Your Orders” button on the user account page, it takes you to the list of your orders: listorder.jsp



Your Orders

Order ID: 1

Order Date: 2019-10-15 10:25:55.0

Shipping Address: 103 AnyWhere Street, Winnipeg, MB, R3X 45T, Canada

Total Amount: \$91.70

Order Items:

| Product ID | Quantity | Price |
|--------------|----------|-----------------|
| 1 | 1 | \$29.99 |
| 5 | 2 | \$21.35 |
| 10 | 1 | \$31.00 |
| Total | 4 | \$103.69 |

You can also update your information on the user account page.

Once you enter the new information, select the update information button to confirm changes.

| | |
|--------------------|----------------------|
| Last Name | Anderson |
| Email | a.anderson@gmail.com |
| Phone Number | 204-111-2222 |
| Address | 103 AnyWhere Street |
| City | Winnipeg |
| State | MB |
| Postal Code | R3X 45T |
| Country | Canada |
| Password | New Password |
| User ID | arnold |
| Update Information | |



Add to cart

This is the add to cart page: addcart.jsp.

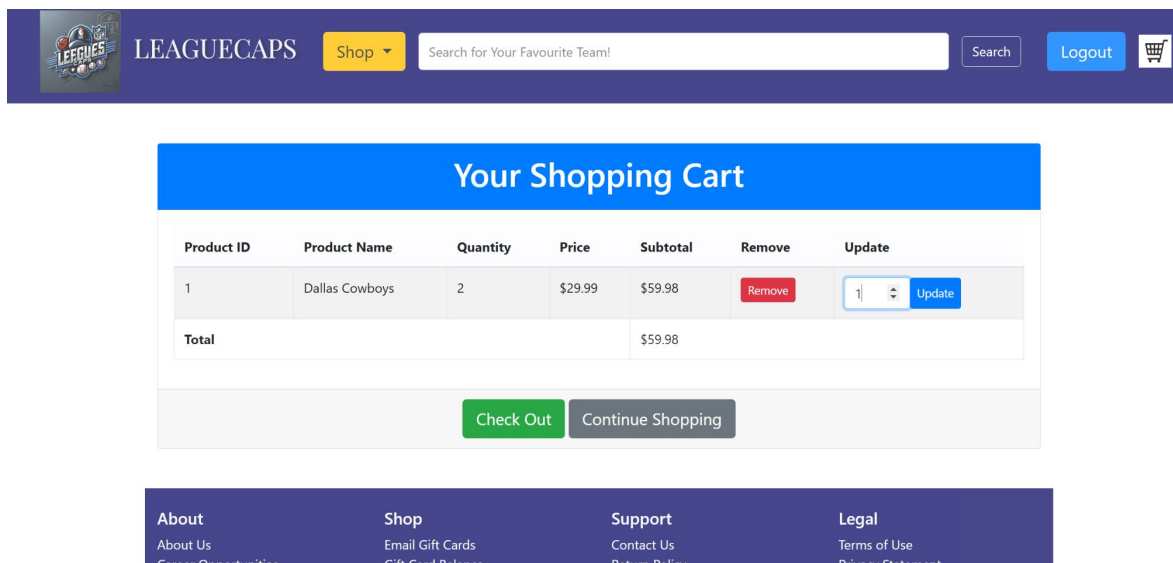
You can adjust and update the quantity of caps you wish to order.

If you attempt to order more than what's available in stock, it will show an error message.

You can also choose to remove the items in your cart.

If you still wish to add more caps to your cart, click on “Continue Shopping”.

If you found what you were looking for you may click on “CheckOut.”



The screenshot displays the LeagueCaps website interface. At the top is a dark blue navigation bar containing the LeagueCaps logo, a 'Shop' button, a search bar with the placeholder text 'Search for Your Favourite Team!', a 'Search' button, a 'Logout' button, and a shopping cart icon. Below the navigation bar is a section titled 'Your Shopping Cart' with a blue header. This section contains a table with the following columns: Product ID, Product Name, Quantity, Price, Subtotal, Remove, and Update. The table lists one item: a Dallas Cowboys cap with a quantity of 2, priced at \$29.99 each, for a subtotal of \$59.98. A 'Remove' button is next to the item, and an 'Update' button is next to a quantity input field showing '1'. A 'Total' row shows the overall subtotal of \$59.98. Below the table are two buttons: 'Check Out' (green) and 'Continue Shopping' (grey). At the bottom of the page is a dark blue footer with four columns of links: 'About' (About Us, Career Opportunities), 'Shop' (Email Gift Cards, Gift Card Balance), 'Support' (Contact Us, Return Policy), and 'Legal' (Terms of Use, Privacy Statement).

| Product ID | Product Name | Quantity | Price | Subtotal | Remove | Update |
|------------|----------------|----------|---------|----------|------------------------|---|
| 1 | Dallas Cowboys | 2 | \$29.99 | \$59.98 | Remove | <input type="text" value="1"/> Update |
| Total | | | | \$59.98 | | |

[Check Out](#) [Continue Shopping](#)

About
About Us
Career Opportunities

Shop
Email Gift Cards
Gift Card Balance

Support
Contact Us
Return Policy

Legal
Terms of Use
Privacy Statement

Upon clicking checkout, it will direct you to the shipping info page: shippingInfo.jsp

Here you are prompted to enter your shipping information.

Navigation buttons are added to give control to the user.



Shipping Information

Enter your Shipping Information

After submitting the shipping information you will be directed to the payment information page: paymentInfo.jsp where you are prompted to enter your payment information

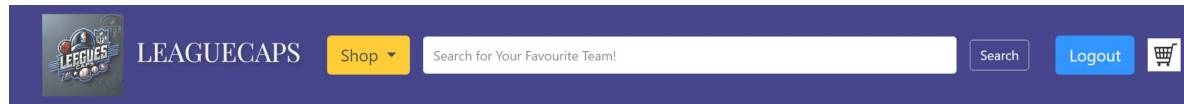
Payment Information

Enter your payment information:



Once you submit your payment information, you are directed to the checkout line:

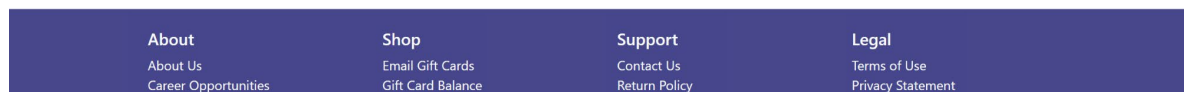
Checkout.jsp where you must enter your customer ID and password in order to complete the transaction



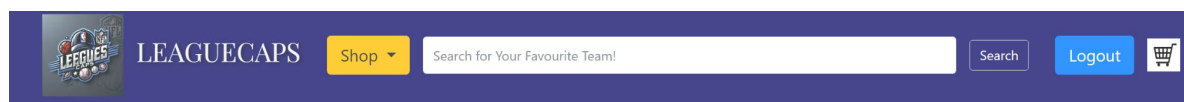
LeagueCaps CheckOut Line

Enter your customer ID and password to complete the transaction:

[Previous](#) [Home](#) [Submit](#)



Finally after submitting the customer ID and password, you are directed to the Order Confirmation page: order.jsp which shows the details of your order and informs you that the order has been placed successfully.



Order Confirmation

Order Details

| Product | Quantity | Price | Total |
|--------------------|----------|---------|----------------|
| Dallas Cowboys | 2 | \$29.99 | \$59.98 |
| Grand Total | | | \$59.98 |

Order placed successfully!



3. Implemented Features

| Final Overall System Features | Category | Possible Points | Points | Comments/Code File |
|---|----------|-----------------|--------|--------------------------------------|
| Documentation (15 total points) | | | | |
| Executive Summary (up to 1 page) | Core | 2 | 2 | final_report.docx |
| System Features (2 pages) | Core | 2 | 2 | final_report.docx |
| List of Web and AI sources used | Core | 3 | 3 | final_report.docx |
| Walkthrough with screenshots (up to 15 pages) | Core | 8 | 8 | final_report.docx |
| Hosting (10 total points) | | | | |
| Running on cloud server | Advanced | 10 | 10 | _____ |
| | | | | __ |
| Main/Home Page (up to 14 total points) | | | | |
| Search for a product by name | Core | 1 | 1 | Most pages with search bar in header |
| Browse products by category | Core | 1 | 1 | Listprod.jsp |
| List products (by search/browse) | Core | 1 | 1 | Listprod.jsp |
| List products with image | Core | 1 | 1 | Listprod.jsp |
| Page header with menu | Basic | 1 | 1 | All pages with header |
| Page header shows current logged in user | Basic | 1 | 1 | Index.jsp |
| Dynamic products on page based on sales | Basic | 2 | 2 | Index.jsp |
| Improved UI (user-friendly, images, etc.) | Basic | 2 | 2 | All pages |
| Product recommendation based on user | Advanced | 4 | | |
| | | | | |
| Shopping Cart (up to 8 total points) | | | | |



| | | | | |
|---|----------|---|---|---|
| Add to shopping cart | Core | 1 | 1 | Addcart.jsp |
| View shopping cart | Core | 1 | 1 | Showcart.jsp |
| Update quantity (with data validation) | Basic | 1 | 1 | Addcart.jsp |
| Remove item from shopping cart | Basic | 1 | 1 | Showcart.jsp, addcart.jsp |
| Improved formatting/UI (e.g. in header bar) | Basic | 1 | 1 | Showcart.jsp |
| Cart stored in database between sessions | Basic | 3 | 3 | Showcart.jsp |
| | | | | |
| Checkout (up to 9 total points) | | | | |
| Checkout with customer id | Core | 1 | 1 | checkout.jsp |
| Checkout with payment/shipment info | Basic | 2 | 2 | paymentInfo.jsp, shippingInfo.jsp |
| Checkout with data validation | Basic | 2 | 2 | Order.jsp, checkout.jsp, paymentInfo.jsp, shippingInfo.jsp |
| Multiple shipments per order supported | Advanced | 2 | | |
| Calculate taxes/shipping (by items/state) | Advanced | 2 | | |
| | | | | |
| Product Detail Page (up to 2 total points) | | | | |
| Product detail page and item description | Core | 1 | 1 | Product.jsp |
| Product detail has an image from database | Core | 1 | 1 | Listprod.jsp |

| | | | | |
|--|-------|---|---|-------------------|
| User Accounts/Login (up to 12 total points) | | | | |
| Create user account page | Basic | 2 | 2 | createAccount.jsp |
| Create account with data validation | Basic | 2 | 2 | createAccount.jsp |



| | | | | |
|---|----------|---|---|-------------------------|
| Edit user account info (address, password) | Basic | 2 | 2 | Customer.jsp |
| Login/logout | Core | 1 | 1 | Login.jsp, logout.jsp |
| Register user/Forgot password email | Advanced | 4 | | |
| Page listing all orders for user | Core | 1 | 1 | Listorder.jsp |
| Product Reviews (up to 5 total points) | | | | |
| Ability to enter a review on a product | Basic | 2 | 2 | Product.jsp,review.jsp |
| Display product review on product detail page | Basic | 1 | 1 | Product.jsp |
| Restrict to one review per user on item purchased | Advanced | 2 | 2 | Review.jsp |
| | | | | |
| 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 | Admin.jsp, login.jsp |
| List all customers | Core | 1 | 1 | Admin.jsp, customer.jsp |
| List report showing total sales/orders | Core | 1 | 1 | Admin.jsp |
| 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 | 5 | Page is optimized with bootstrap and built with most human computer interaction principles in mind (usability goals, user experience goals etc.). Website mobile version is user friendly as well, mainly with the help of bootstrap. |
| <i>Others (your suggestions)</i> | | Up to 5 | 3 | Popup on loading index.jsp |
| <i>Presentation – December 5th, 2024</i> | | | 5 | |
| | | | | |
| | | | | |
| | | | | |
| Total: (out of 50 with maximum of 10 bonus marks. i.e. 60 points out of 50 is max.) | | | 79/50 | |



4. List of Web & AI References

Kian

All chatgpt conversation list removed.

<https://getbootstrap.com/>

<https://learn.microsoft.com/en-us/answers/questions/499956/jdbc-connection-issue>

Hosting conversations

<https://learn.microsoft.com/en-us/answers/questions/499956/jdbc-connection-issue>

Mandira

All chatgpt conversation list removed.

<https://www.oracle.com/technical-resources/articles/javase/servlets-jsp.html>

<https://beginnersbook.com/2013/11/jsp-implicit-object-session-with-examples/#:~:text=%3E>

[,The%20session.,until%20the%20session%20remains%20active.](#)

