Joystick Junction – Report

COSC 304: Introduction into Databases

Developed by Sami Jaffri and Ryan Eveson

2024-12-05

Table of Contents

Mission Statement:

Joystick Junction is dedicated to bringing all gamers an unforgettable gamin experience by offering a diverse selection of video games at low competitive prices. Our mission is to fuel the love of gaming while allowing new gamers to join the community with ease and comfortability.

Executive Summary:

Gaming is becoming one of the world's leaders in entertainment, but finding the right games at the right price is a challenge. Joystick Junction was built to solve this problem by providing a one stop destination for all gamers to find discovery and buy video games on the PC platform.

At Joystick Junction we focus on delivering value and variety. Whether you are like a fast-paced shooter, to a slow RPG, to sport games, our inventory of games is curated to meet the needs of every gamer. Our user-friendly website ensures a seamless shopping experience.

Our website offers a review system ensuring that you make the correct purchase. Along with this, game descriptions are available listing the genre and maturity of the game

Gaming for many people is more than just a hobby, for many it's a lifestyle, and with Joystick Junction you will always have access to the games that you love and a community that shares your passion.

Installation and running instructions

1. Go to https://github.com/RyanEveson2/COSC_304_FinalProject and download the zip folder

2. Unzip the folder to your desired location

3. Ensure you have docker installed. If you don't, download from

https://www.docker.com/products/docker-desktop/

4. Open the project in your preferred IDE

5. Build the project

6. Open a command line and navigate inside the 304_lab7_starter_java 2 folder

7. Run docker-compose up -d

8. Open a new web browser window and navigate to localhost/shop/loaddata.jsp

9. Finally, navigate to localhost/shop/login.jsp

10. Login Information:

     Admin: username: Arnold, password: 304Arnold!

     Customer: username: bobby, password: 304Bobby!

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		
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		
Browse products by category	Core	1		
List products (by search/browse)	Core	1		
List products with image	Core	1		
Page header with menu	Basic	1		
Page header shows current logged in user	Basic	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		
View shopping cart	Core	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		
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 detail has an image from database	Core	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		
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		
List all customers	Core	1		
List report showing total sales/orders	Core	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		User friendly navigation created,
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 Walk Through

When you first access the site, you will be taken directly to the login page. At this login page, login with either
  a. Username: Arnold, Password: 304Arnold!
  b. Username: bobby, Password: 304Bobby!

Once you are logged in, you will be taken directly to the product page. From this page you will be able to search for games based off of names, the category they are part of or both.
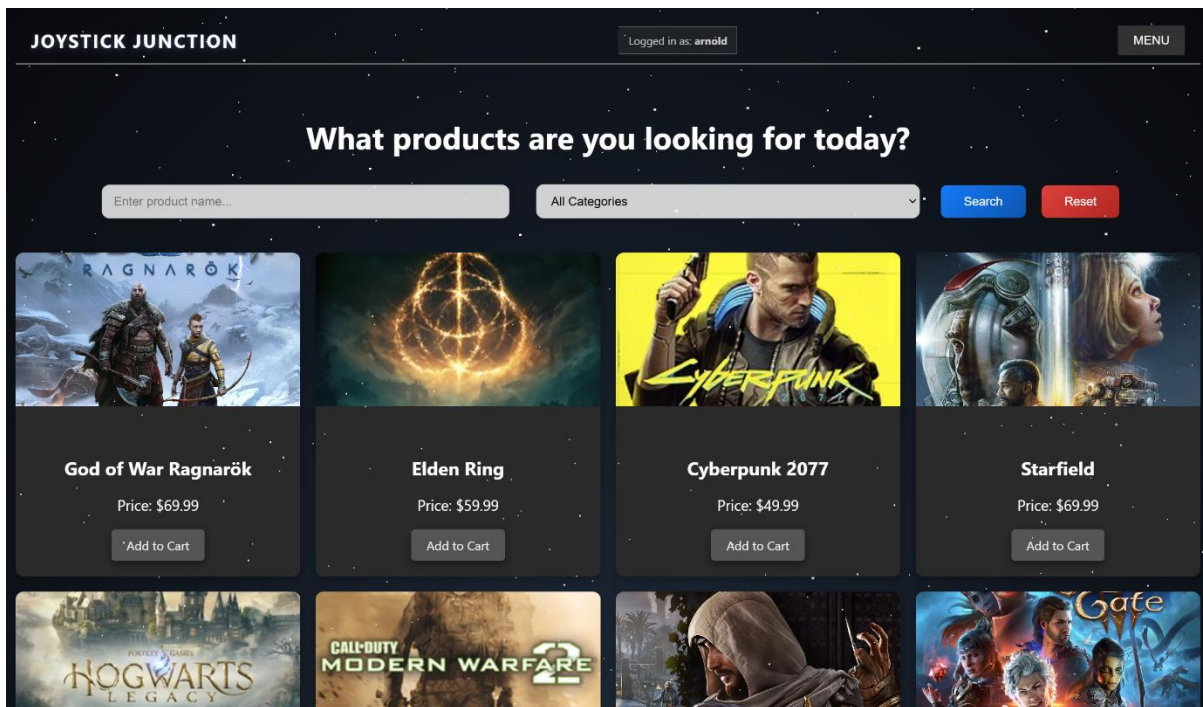
You can now click directly on add to cart, or you can click on the title of the desired game to view the description, the maturity of the game, the reviews and more. As you can see, Arnold has already let a review for this game, this means that he can not leave another review.
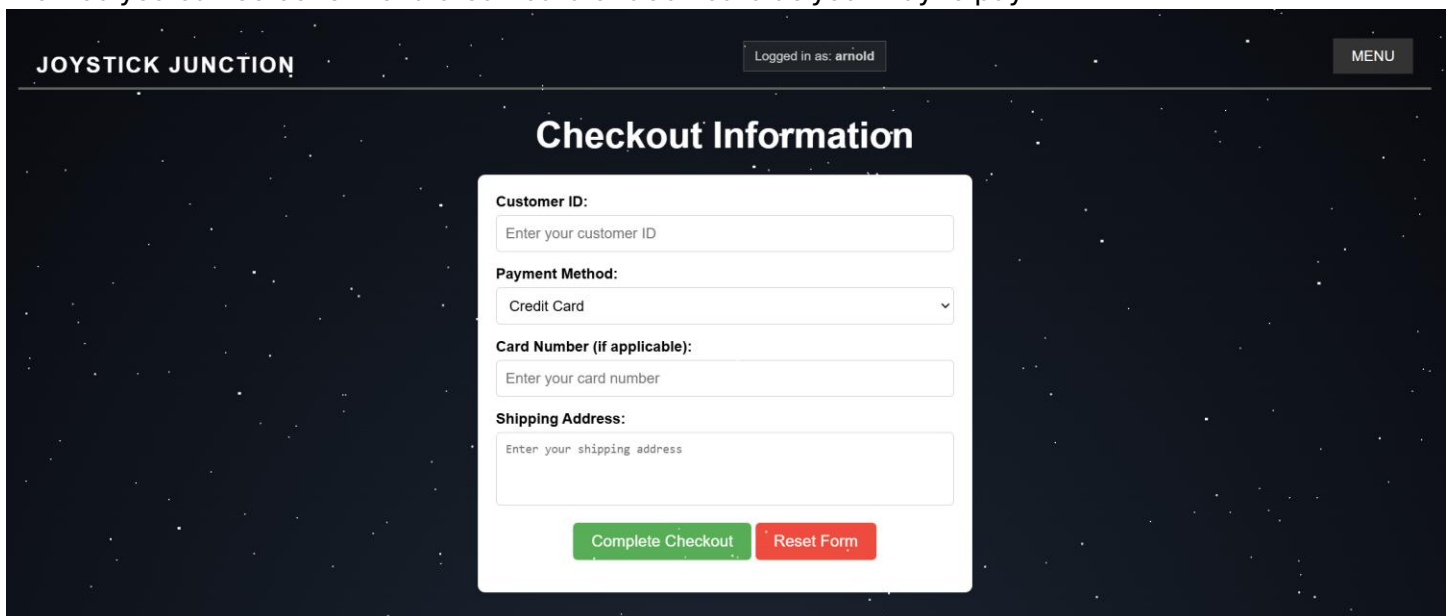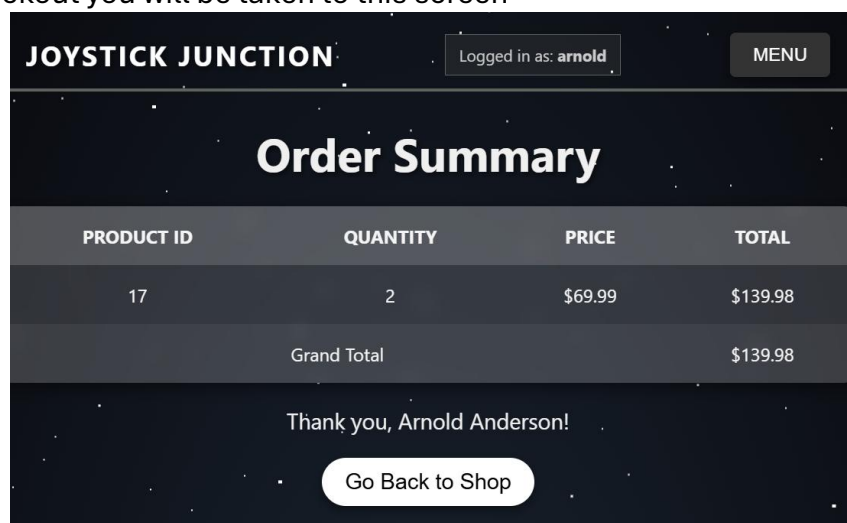
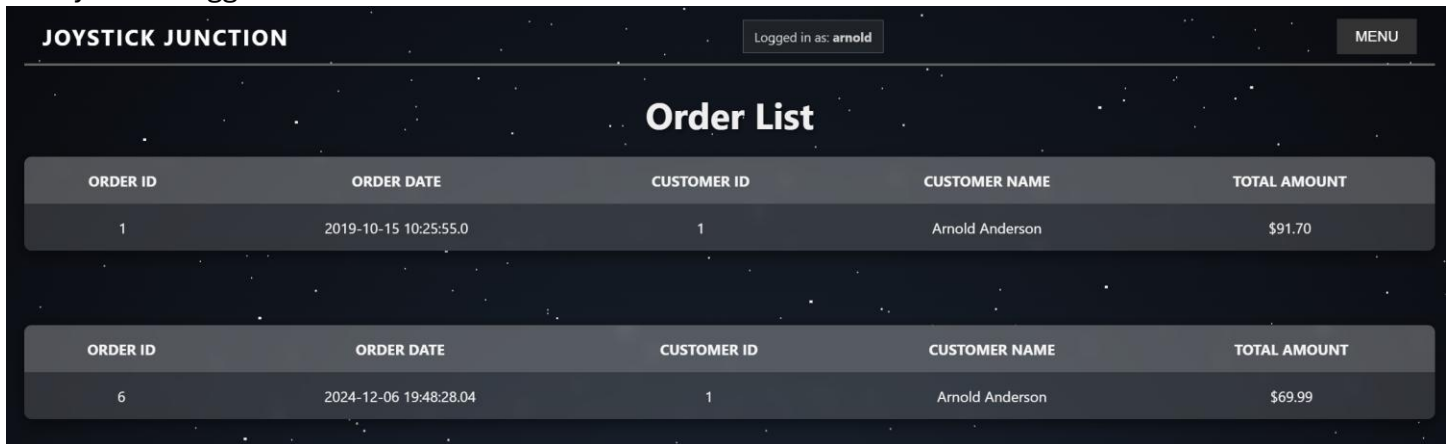You can now add to cart, from here you can continue shopping, or you can checkout.
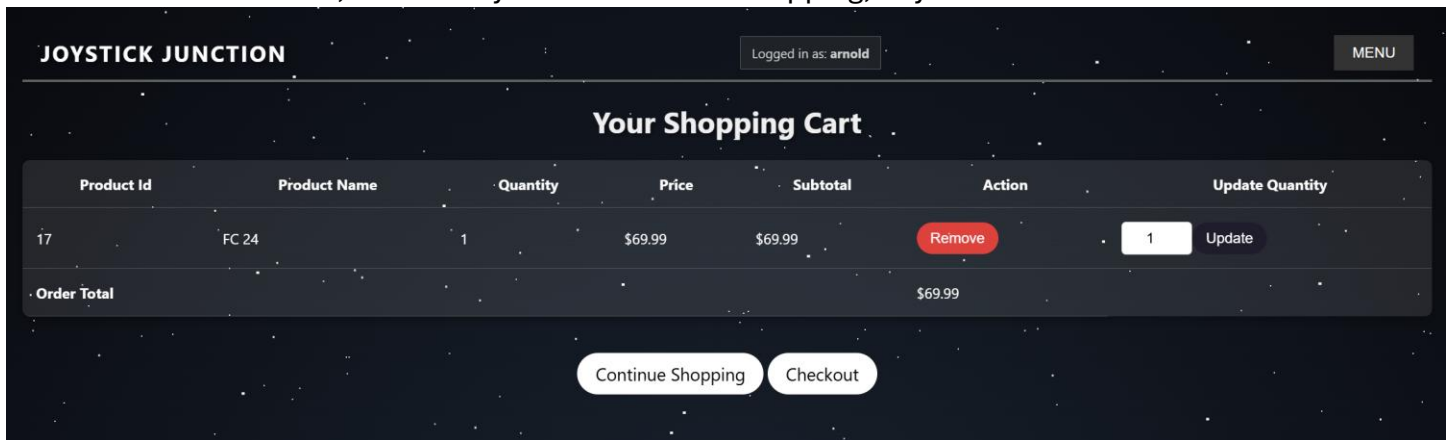
When at checkout, you will be required to fill I this information before completing checkout. In payment method you can select either a credit card or debit card as your way to pay.

After completing checkout you will be taken to this screen

You can then navigate to the "list all Orders" tab in the dropdown bar to see all previous orders for the user you are logged in as
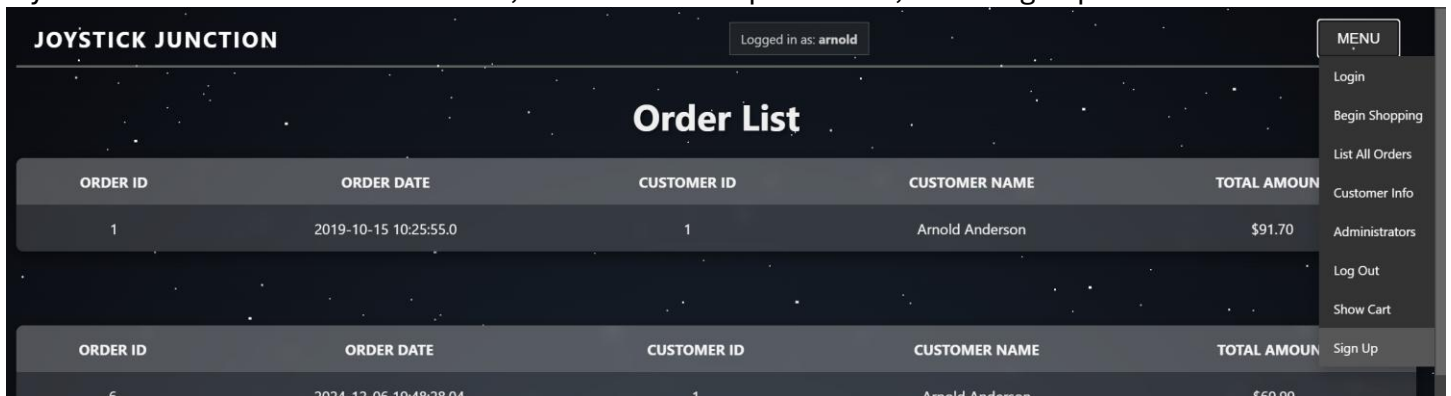

If you desire to create a new account, in that same dropdown bar, click "sign up"
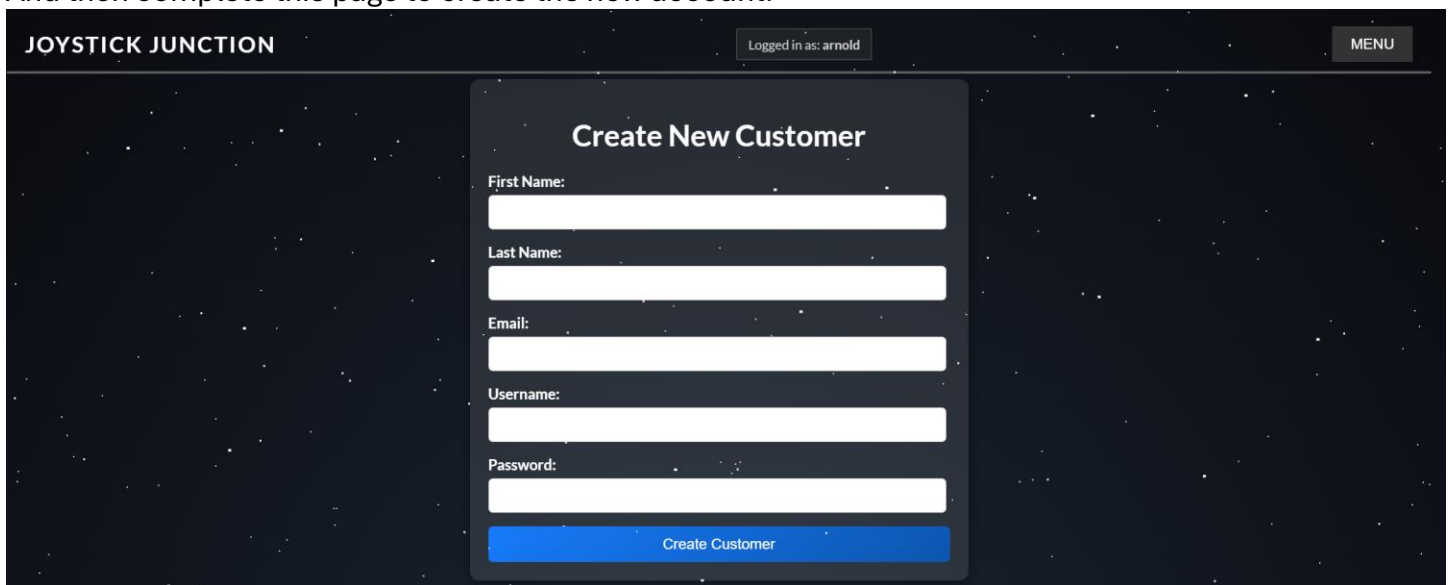
And then complete this page to create the new account.

You will then be able to log in to that account as that new user.

With that new user, if you enter the customer info page, you will be able to edit and update all information

Customer Information

CUSTOMER ID	1
FIRST NAME	Arnold
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
USERNAME	arnold

Update Information

As an administrator, the administrator page will show you all previous sales per day

JOYSTICK JUNCTION   Logged in as: **arnold**   MENU

Sales Report by Day and Product

DAY	PRODUCT NAME	TOTAL SALES (USD)
6	FC 24	$69.99
	Total Sales for Day 6:	$69.99
15	Mortal Kombat 1	$162.00
15	Hogwarts Legacy	$128.10
15	Assassin's Creed Mirage	$90.00
15	Call of Duty: Modern Warfare II	$50.00
15	Diablo IV	$31.00
15	Street Fighter 6	$30.00
15	God of War Ragnarök	$18.00
	Total Sales for Day 15:	$509.10
16	Hogwarts Legacy	$106.75
	Total Sales for Day 16:	$106.75
17	Baldur's Gate 3	$120.00
17	Forza Horizon 5	$69.75

A graph of sales for a specific day, and the quantity of all items we have in our warehouse

Total Sales (USD) for Day 5

Warehouse and Inventory Levels

WAREHOUSE NAME	PRODUCT ID	QUANTITY	PRICE (USD)	ACTIONS
Main warehouse	1	5	$69.99	Update
Main warehouse	2	10	$59.99	Update
Main warehouse	3	3	$49.99	Update
Main warehouse	4	2	$69.99	Update
Main warehouse	5	6	$69.99	Update
Main warehouse	6	3	$59.99	Update
Main warehouse	7	1	$49.99	Update
Main warehouse	8	0	$69.99	Update
Main warehouse	9	2	$69.99	Update
Main warehouse	10	3	$59.99	Update

It will then show you all customers signed up on the website, and the list of every game where you will be able to update the details of the game, or remove it from the website

Customer List

CUSTOMER ID	FIRST NAME	LAST NAME
1	Arnold	Anderson
2	Bobby	Brown
3	Candace	Cole
4	Darren	Doe
5	Elizabeth	Elliott

Update Product Details

PRODUCT ID	PRODUCT NAME	PRICE (USD)	DESCRIPTION	IMAGE	ACTIONS
1	God of War Ragnarök	69.99	Embark on an epic journey with Kratos and Atreus in this action-		Update Delete
2	Elden Ring	59.99	A vast open-world action RPG that blends intricate lore,		Update Delete
3	Cyberpunk 2077	49.99	Set in a neon-lit future, this open-world RPG features deep		Update Delete
4	Starfield	69.99	Explore the uncharted vastness of space in		Update Delete

References

Chatgpt. (n.d.). https://chatgpt.com/

Where developers learn, share, & build careers. Stack Overflow. (n.d.). https://stackoverflow.com/