

University of British Columbia: Okanagan Campus

COSC 304: Introduction to Databases Final Project

The Treasure Chest

Developed by Sarabroop Singh Aulakh (Sarab) and Mrunal Subhash Mustapure (Moon)

December 1, 2024

Group #36

Github usernames: (removed)

Link to Github Repository: (removed)

The Treasure Chest Features...

Final Overall System Features	Category	Possible Points	Points	Comments / Code Files
Documentation (15 total points)				
Executive Summary (up to 1 page)	Core	2		Lab10Documentation.docx
System Features (2 pages)	Core	2		This table itself
List of Web and AI sources used	Core	3		Lab10Documentation.docx
Walkthrough with screenshots (up to 15 pages)	Core	8		Lab10Documentation.docx
Hosting (10 total points)				
Running on cloud server	Advanced	10	N/A	
Main/Home Page (up to 14 total points)				
Search for a product by name	Core	1		listProduct.jsp
Browse products by category	Core	1		listProduct.jsp
List products (by search/browse)	Core	1		listProduct.jsp
List products with image	Core	1		listProduct.jsp
Page header with menu	Basic	1		header.jsp
Page header shows current logged in user	Basic	1		header.jsp
Dynamic products on page based on sales	Basic	2	N/A	
Improved UI (user-friendly, images, etc.)	Basic	2		index.jsp [Sleek UI, video on home page]
Product recommendation based on user	Advanced	4	N/A	
Shopping Cart (up to 8 total points)				
Add to shopping cart	Core	1		addCart.jsp
View shopping cart	Core	1		showCart.jsp
Update quantity (with data validation)	Basic	1		
Remove item from shopping cart	Basic	1		showCart.jsp
Improved formatting/UI (e.g. in header bar)	Basic	1		showCart.jsp
Cart stored in database between sessions	Basic	3	N/A	
Checkout (up to 9 total points)				
Checkout with customer id	Core	1		checkout.jsp
Checkout with payment/shipment info	Basic	2	N/A	
Checkout with data validation	Basic	2	N/A	
Multiple shipments per order supported	Advanced	2	N/A	Note: Requires DB change.
Calculate taxes/shipping (by items/state)	Advanced	2	N/A	Note: Requires DB change.
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		img (not with database though)

User Accounts/Login (up to 12 total points)				
Create user account page	Basic	2		customer.jsp
Create account with data validation	Basic	2		register.jsp
Edit user account info (address, password)	Basic	2		customer.jsp
Login/logout	Core	1		login.jsp, logout.jsp
Register user/Forgot password email	Advanced	4		register.jsp
Page listing all orders for user	Core	1		userOrder.jsp
Product Reviews (up to 5 total points)				
Ability to enter a review on a product	Basic	2		submitReview.jsp
Display product review on product detail page	Basic	1		product.jsp
Restrict to one review per user on item purchased	Advanced	2		submitReview.jsp
Warehouses/Inventory (up to 5 total points)				
Display item inventory by store/warehouse	Basic	2		warehouse.jsp
Edit item inventory by store/warehouse	Advanced	3		warehouse.jsp
Administrator Portal (up to 19 total points)				
Secured by login	Core	1		admin.jsp
List all customers	Core	1		listCustomers.jsp
List report showing total sales/orders	Core	1		admin.jsp
Report with a graph	Advanced	3	N/A	
Add new product	Basic	2		addProduct.jsp
Update/delete product	Basic	2		updateProduct.jsp
Change order status/ship order	Basic	1		updateStatus.jsp
Upload a photo to file system for product	Advanced	2	N/A	
OR: Upload a photo to database for product	Advanced	4	N/A	
Database restore with SQL script	Basic	2		admin.jsp
Add/update warehouse, customer	Basic	2	N/A	
Database System/General				
Implement some validation using triggers	Advanced	2	N/A	
Use AJAX for some pages	Advanced	4	N/A	
User interface and navigation/usability		Up to 5		Very easy to flow and clear interface throughout.
<i>Others (your suggestions)</i>		Up to 5		Have also kept the page titles with the theme. Video backgrounds for the User home page and the Admin home page. Other pages also have cool background that fit in with the theme.
Total: (out of 50 with maximum of 10 bonus marks. i.e. 60 points out of 50 is max.)				

THE TREASURE CHEST

Mission Statement:

At The Treasure Chest, our mission is to unite movie and video game fans through a carefully curated selection of high-quality, officially licensed merchandise that captures the imagination, nostalgia, and excitement of fandom. We strive to create a platform where nerd culture is celebrated, enabling fans to proudly express their love for the stories and worlds that inspire them.

Executive Summary:

The Treasure Chest is an online store designed to cater to fans of iconic movies and video games by offering premium, officially licensed merchandise. From apparel and accessories to collectibles and exclusive limited-edition items, we aim to provide a one-stop destination for enthusiasts seeking to celebrate their favorite franchises.

Our unique selling point is the merging of movie and video game merchandise, creating a broader platform that embraces the diversity of nerd culture. By partnering with major studios, game developers, and independent artists, we ensure authenticity and innovation in every product we offer. Beyond the merchandise, we are building a community, a space where fans relive the magic of their favorite franchises.

The Treasure Chest is committed to sustainability, prioritizing eco-friendly practices in our packaging and sourcing processes. Also, we ship products in a treasure chest, each shipment comes with a special unique code.



Meet the Developers: Sarab and Moon

The Treasure Chest is founded by Sarab and Moon, two dedicated third-year Computer Science students with a shared love for movies, video games, and all things nerd culture. As passionate fans, we understand the joy of finding the perfect piece of merch that reminds you of your favorite characters, stories, and moments.

Inspired by platforms like Fangamer [<https://www.fangamer.com>] and a desire to bridge the gap between movie and video game merchandise, we created *The Treasure Chest* to bring our dream to life. This project combines our technical skills and creative vision with our personal passion for pop culture. Our goal is to connect with fellow fans, foster nostalgia, and celebrate the joy of fandom through a thoughtful and high-quality shopping experience.

Let The Treasure Chest be your ultimate destination for movie and video game treasures, crafted by fans, for fans!

Sarab:

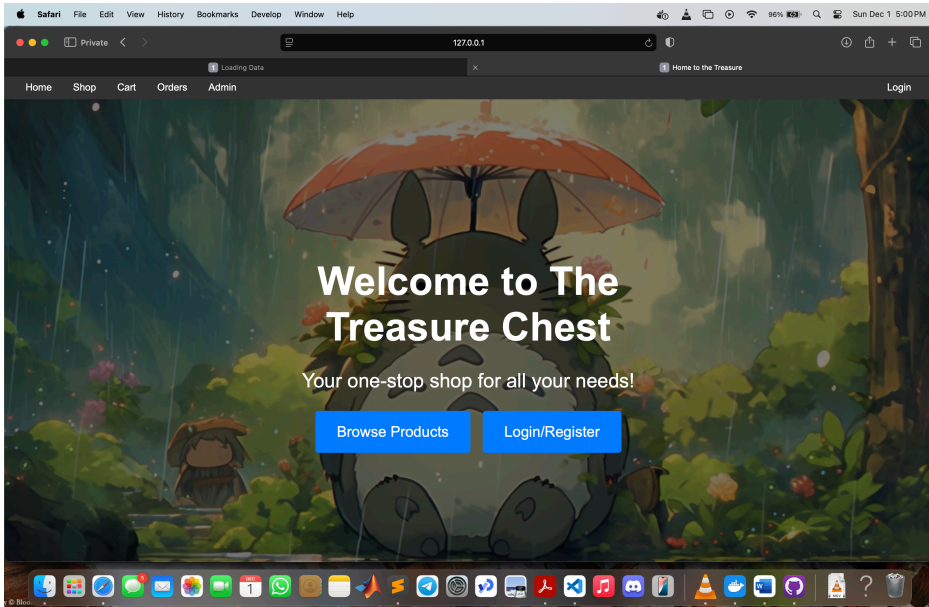


Moon:



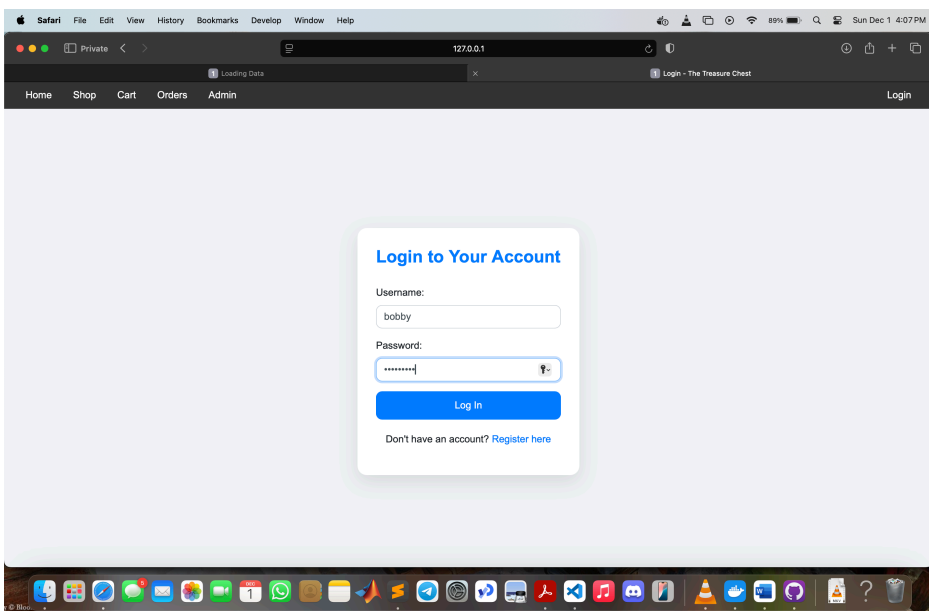
Mentors: Dr. Ramon Lawrence, Bradan Fleming, Kevin Wang, Omar Abdelaziz, Meghdad Dehghan

Walkthrough Time



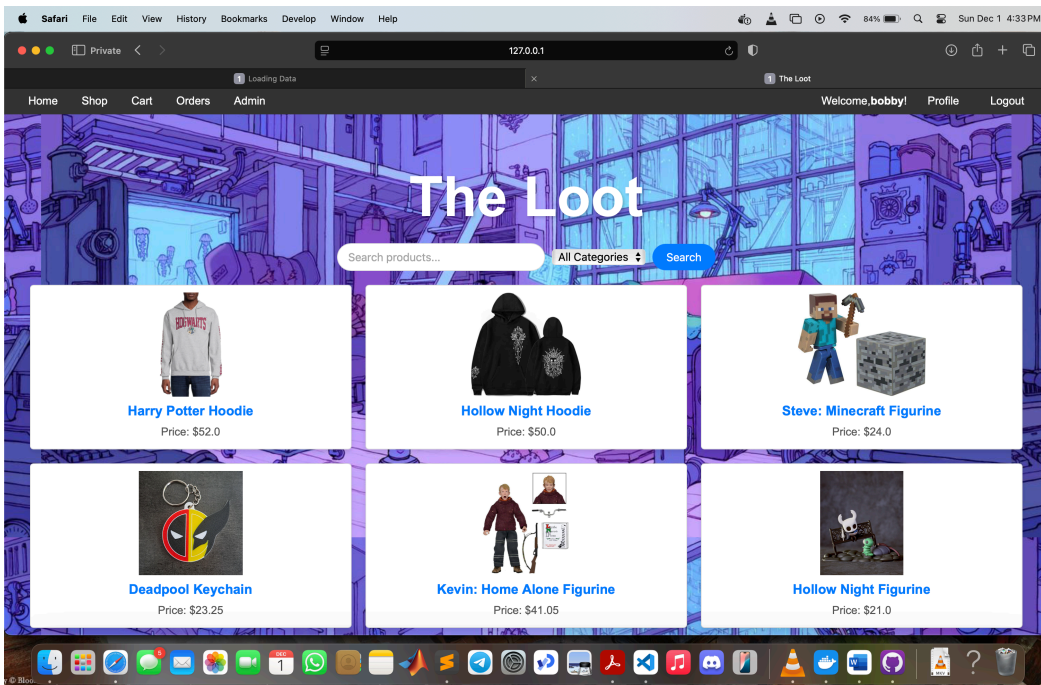
Home to the Treasure (Home Page):

This is our home page. We have a cozy, chill home page where you can forget about everything else and get into the experience of serenity. Here, you can login or register your account. You can also browse products. These options are also available in the header and will work even if you aren't logged in. As for Cart, Orders and Admin, users need to log in to view those.



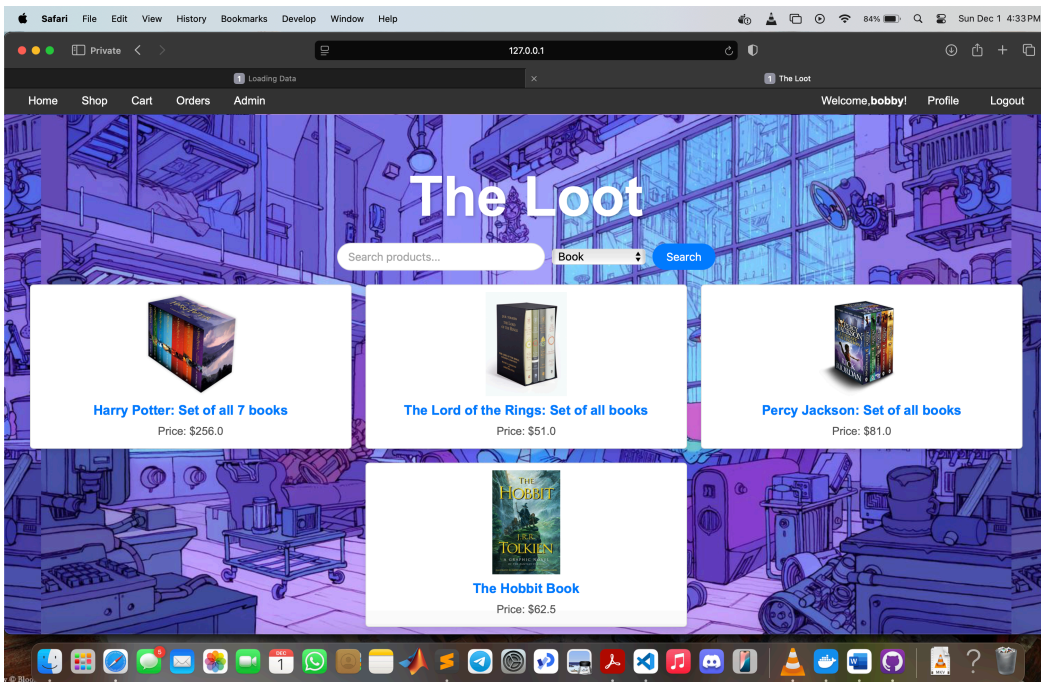
Login - The Treasure Chest:

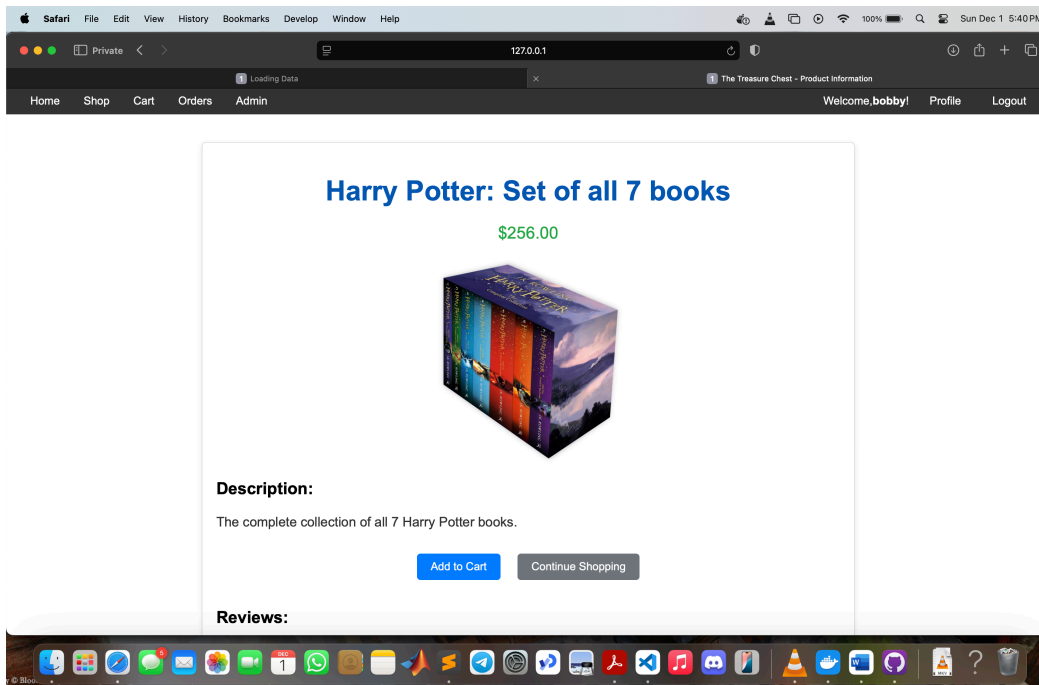
The users can log into their account with their username and password. (And create a new account if they don't have one). Upon logging in, the header will now continue to display Welcome, username! So as to make the experience more personalized. On the header there is user profile where they can view and update their profile as necessary. Their info includes their first name, last name, email, phone, address, city, state, postal code and country.



The Loot (Browse Products/ Shop):

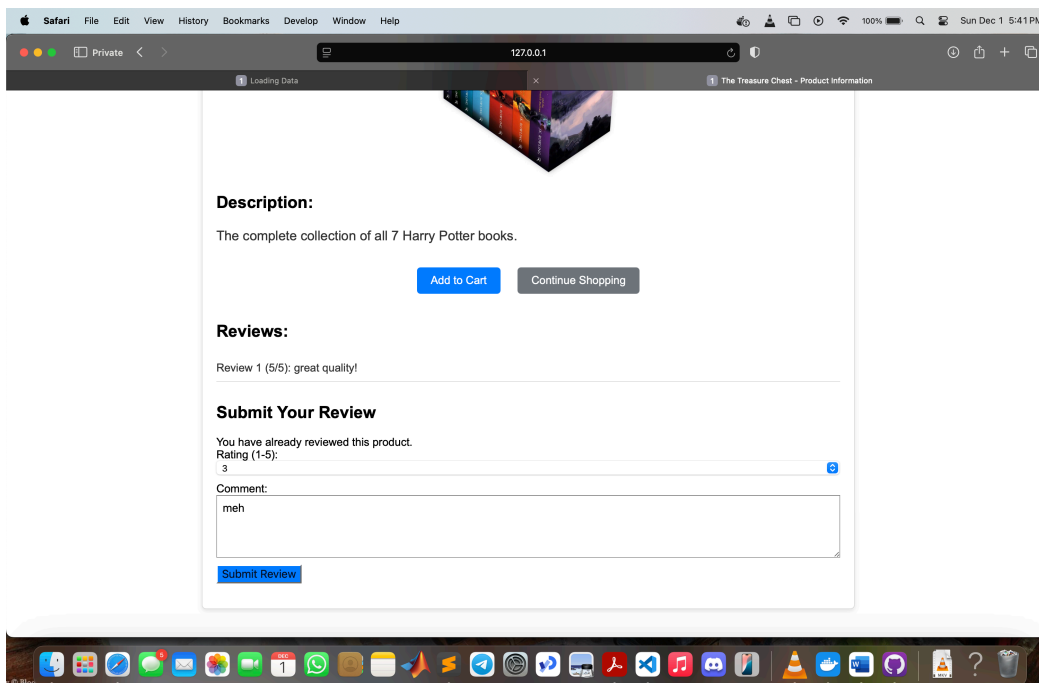
This is the page where you can view all the merchandise we have to offer. Users can also search for particular items. They can also filter through categories (as can be seen below, after we filter through Books). The page is very easy to use with a cool background with a very lo-fi theme.

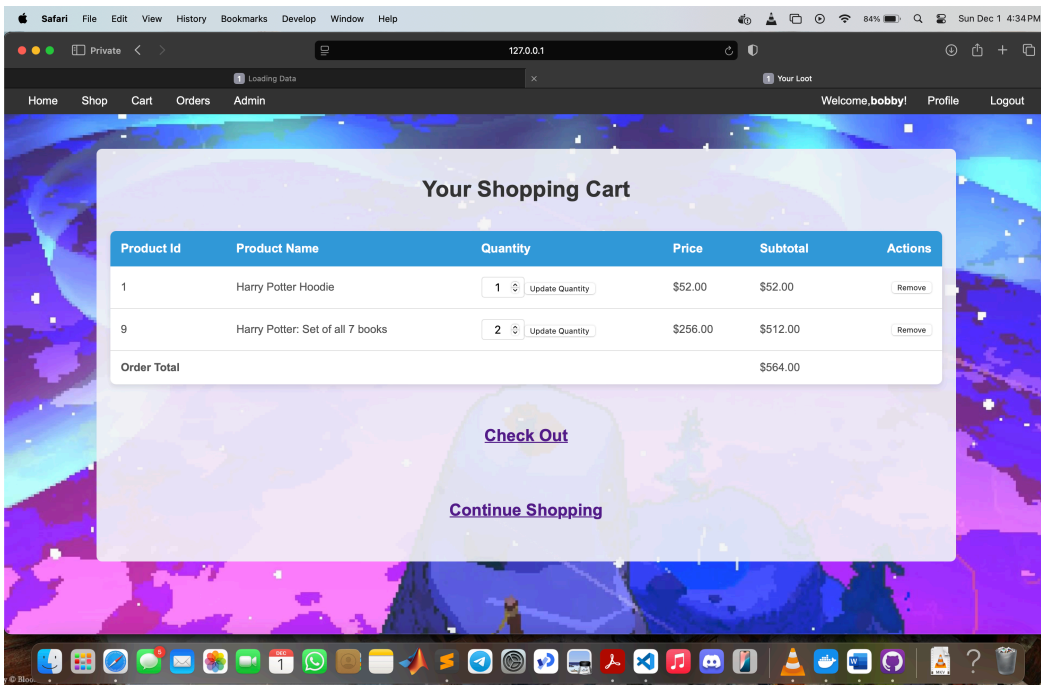




The Treasure Chest – Product Information (Product Page):

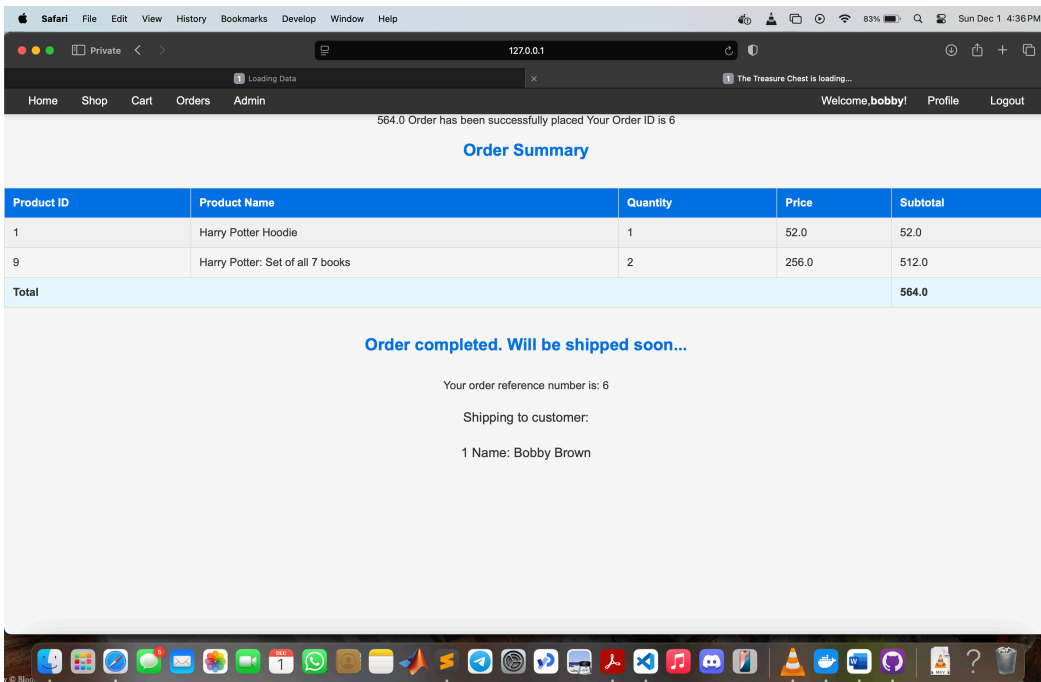
Clicking on the product takes you to its page. It contains the name of the product, its price, its image, its description, the option to add to cart and continue shopping (go back to The Loot). Below this, we also have the past reviews on the product (both rating based and comments) and the option to Submit your review (Again, both a rating and a comment). We also check that a user can only submit a review on the same product only once. If a user tries to submit another review on the same product, we show them a message saying, “You have already reviewed the product”. The image below shows the previous review by the user, and the message when they tried to review again.





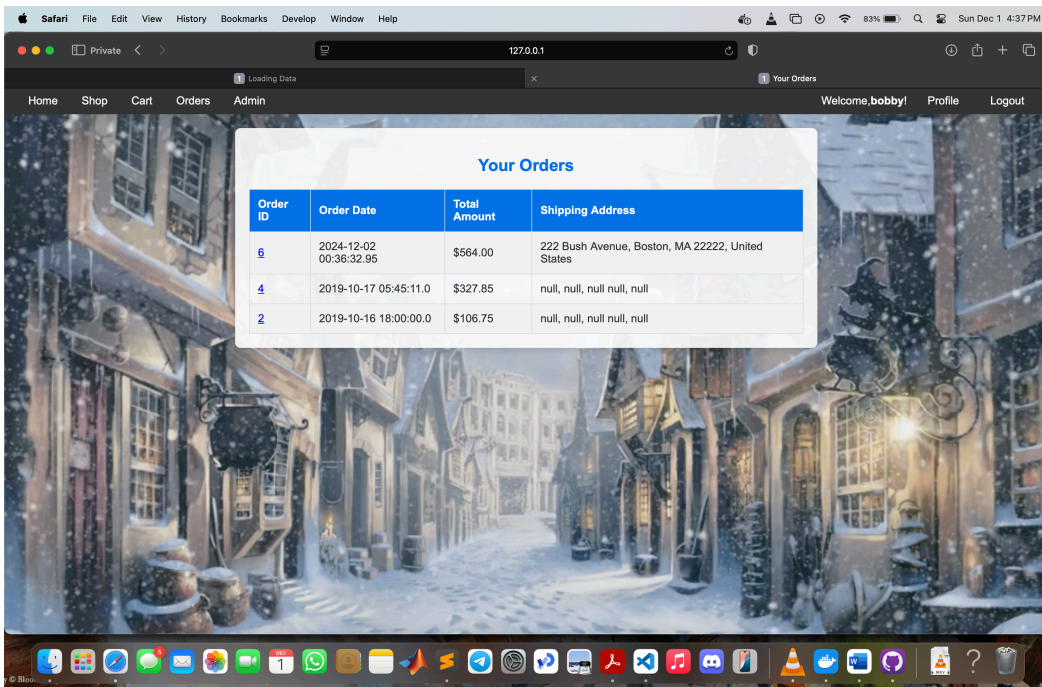
Your Loot (Shopping Cart):

Users can add products to cart. Users can update quantities and remove items from cart. You can also continue shopping which takes you back to The Loot. When the user has decided what to get, they can check out using their customerId and password.



The Treasure Chest is loading... (Order Summary):

Now, on checking out with their customerId and password, the order is placed and the order summary is shown. This shows their order Id and other details about the order.



Your Orders:

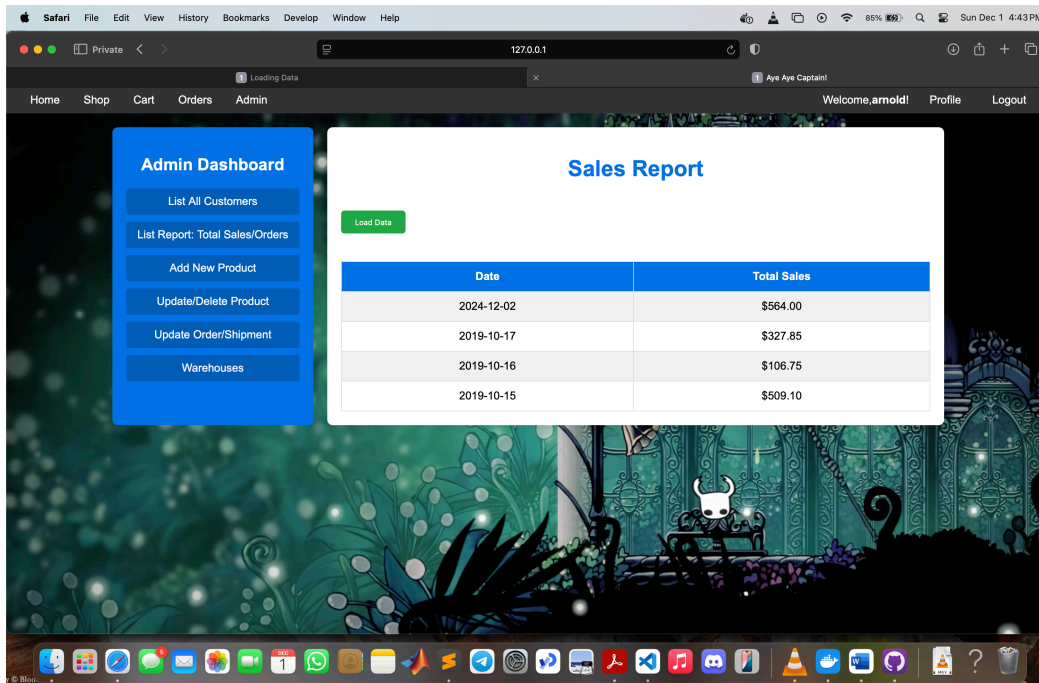
This page shows the user their past orders with details like order Id, order date, total amount and the shipping address. The orders page has a serene background of Hogsmeade during Winter (from the harry potter franchise).

Now on to Admin

Aye Aye Captain (Admin Home Page):

On clicking on Admin from the header, it takes user to a log in page. They need to enter their username and password there. There if they are the admin then will be able to see the following admin home page on clicking on admin again. If they are not the admin it takes them back to the Home to the Treasure home page. Our admin is Arnold (username: arnold, password: 304Arnold!). We also have the option of adding more admins as needed.

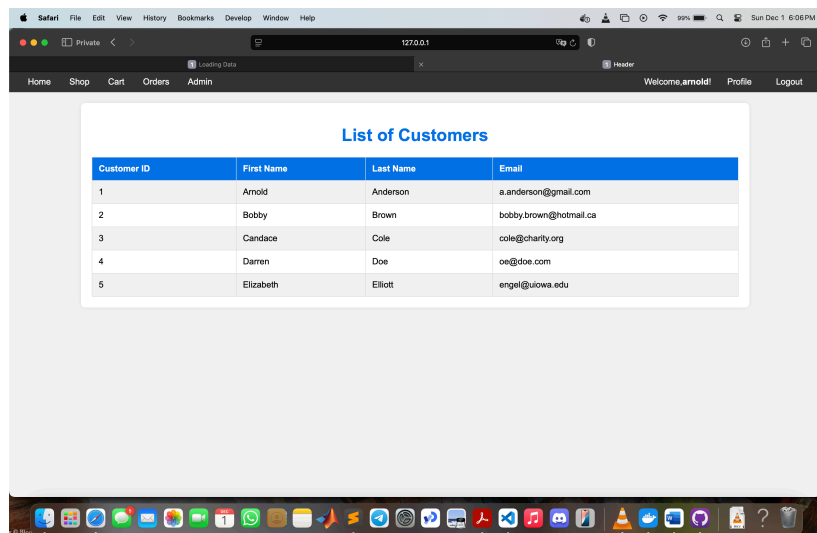
Now this below, is the Aye Aye Captain! (Admin Home Page)



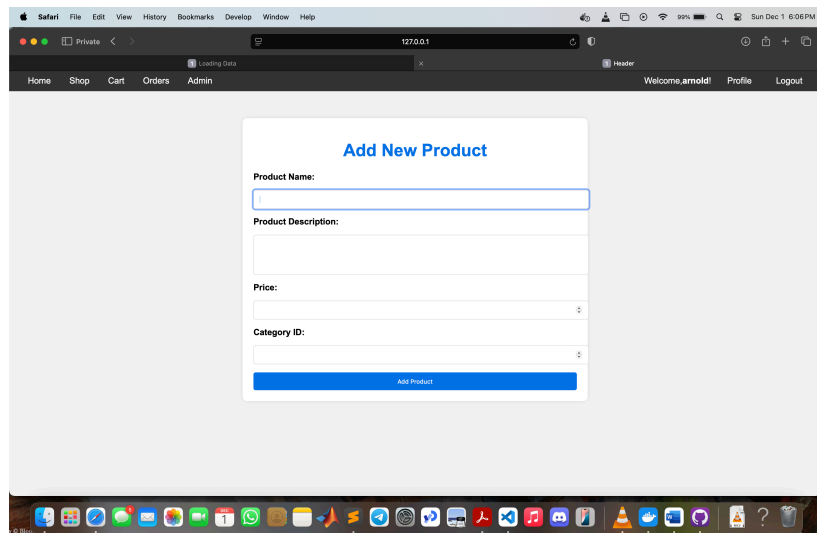
On the left side, we have the admin dashboard. Through the dashboard, the admin can do the following: View the list of all customers, View Total sales, Add new product, Update/ Delete product, Update Order, and View Inventory by warehouse (Right now, we only have the main warehouse with 10 items) which can be updated too. List Report: Total sales/orders will take you to the same page as it is present on the right side of the admin home page.

The following are images that show these admin features.

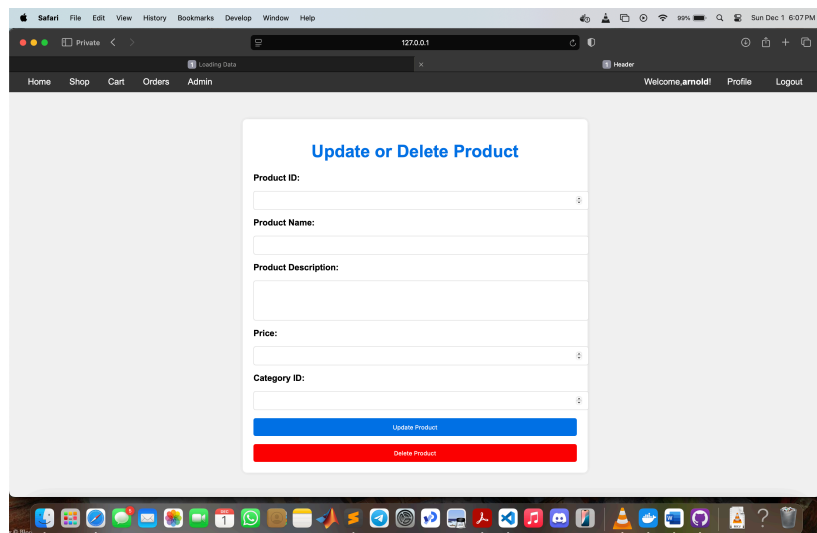
List all Customers:



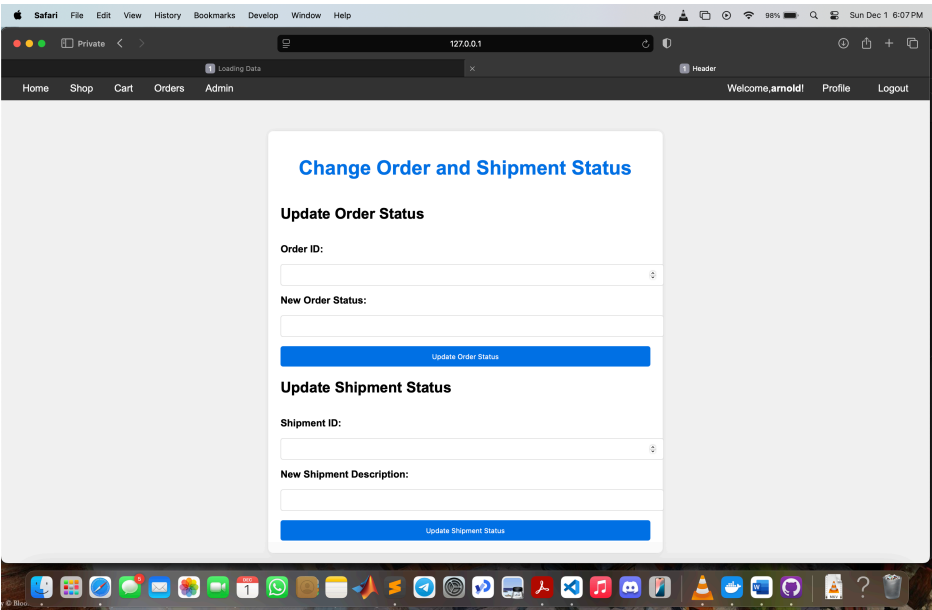
Add new product:



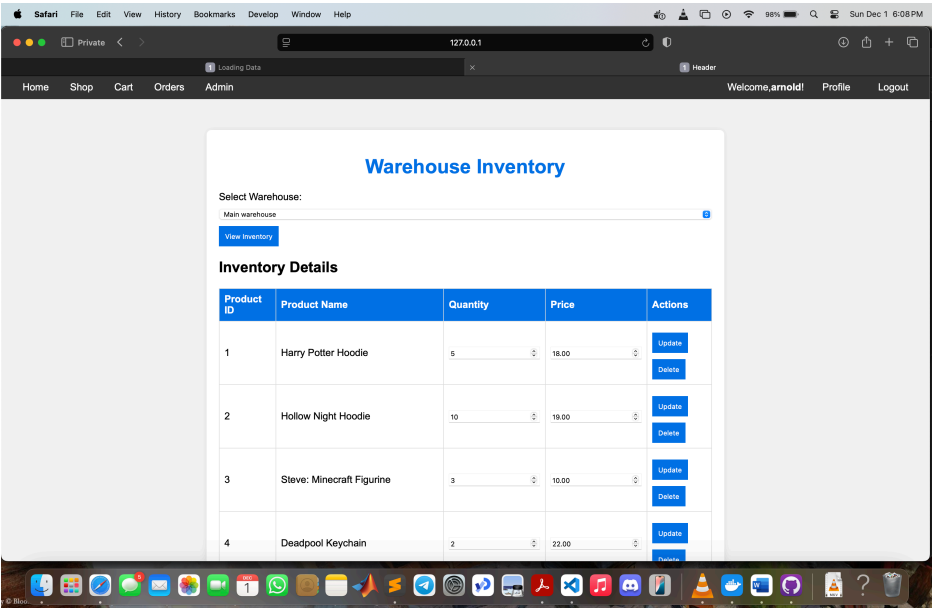
Update/Delete Product



Change Order and Shipment Status:

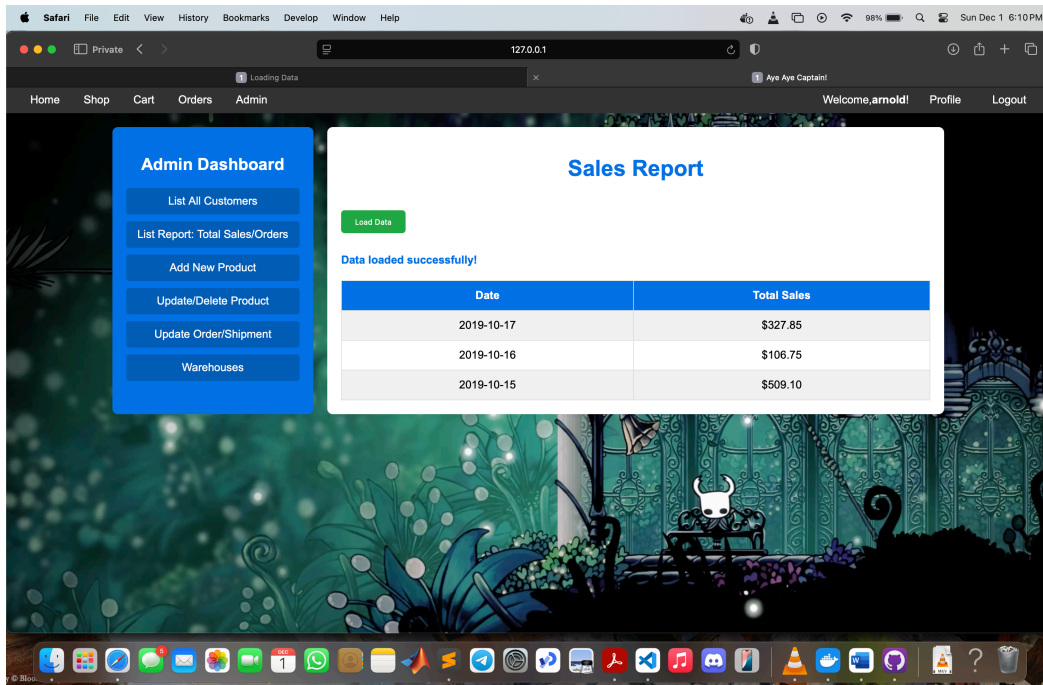


Warehouse Inventory (And Update):



Load Data:

The admin can also restore database by clicking the Load Data button. It will also show a message if loading data was successful: “Data loaded successfully!”.



Logout:

User can finally logout and rest knowing that their Loot will arrive soon.

List of Resources (Talks with ChatGPT): (conversations removed)

The rest of these weren't shareable, due to the use of images in the chats:

List of Resources (Images)

1.jpg: <https://www.walmart.com/ip/Harry-Potter-Men-s-Big-Men-s-Hogwarts-Alumni-Long-Sleeve-Graphic-Hoodie-Sweatshirt-Harry-Potter-Hoodies/613161042>
2.jpg: <https://www.amazon.ca/Hollow-Tracksuit-Fashion-Pullover-Hoodies/dp/B0D2DLVXM4>
3.jpg: https://www.amazon.ca/Minecraft-Steve-Action-Figure-Accessory/dp/B00DOQCTWE/ref=asc_df_B00DOQCTWE/?tag=googleshopc0c-20&linkCode=df0&hvadid=706724960109&hvpos=&hvnetw=g&hvrnd=13005685006548851470&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9215241&hvtargid=pla-399059279275&pssc=1&mcid=89575291960130a0ae8801e699fa34ca&gad_source=1
4.jpg: <https://www.etsy.com/ca/listing/1709442372/deadpool-vs-wolverine-sleutelhanger>
5.jpg: <https://www.amazon.ca/NECA-Clothed-8-Inch-Action-Figure/dp/B013FABCP5>
6.jpg: https://www.etsy.com/ca/listing/1657200492/hollow-knight-figure-3d-sculpture-hollow?gpla=1&gao=1&utm_source=google&utm_medium=cpc&utm_campaign=shopping%20ca%20en%20ca%20art%20and%20collectibles&utm_custom1=k%20CjwKCAiAkJu6BhAMEiwAx4UsAt6XrRikiWZFvOIHQPr3FN6Bkmj77svxFVErFpc9CV8DXvxIkKtRoCu6kQAvD_BwE&utm_content=go_21637415942_170381792590_711177390440_pla-314954651933_c_1657200492enca_102855400&utm_custom2=21637415942&gad_source=1&gbraid=0AAAAADutTMd1XTu-ZYhFvifw_QD_PSBsw&gclid=CjwKCAiAkJu6BhAMEiwAx4UsAt6XrRikiWZFvOIHQPr3FN6Bkmj77svxFVErFpc9CV8DXvxIkKtRoCu6kQAvD_BwE
7.jpg: <https://harrypottershop.com/products/hermione-grangers-wand?srsltid=AfmBOopqK0HI87mAbCPZCbHVdNQaxFjKafaFdnchpGEpUbFhCiZz-4AE>
8.jpg: <https://www.fangamer.com/products/clair-short-hike-plush?srsltid=AfmBOopy5fNu7f6AvtcjPTRe4CBd4H8zlUioVB2RKqk1iXm-BMvqd1ss>
9.jpg: https://www.amazon.ca/Harry-Potter-Box-Set-Collection/dp/1408856778/ref=asc_df_1408856778/?tag=googleshopc0c-20&linkCode=df0&hvadid=706745562946&hvpos=&hvnetw=g&hvrnd=3925748521007208325&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9215241&hvtargid=pla-318206913780&pssc=1&mcid=dae8314eb27438c6bda0573d69cbea0f&gad_source=1
10.jpg: https://www.amazon.ca/WETA-Workshop-Polystone-Anniversary-Classic/dp/B08PFQLXRH/ref=asc_df_B08PFQLXRH/?tag=googleshopc0c-20&linkCode=df0&hvadid=706724959674&hvpos=&hvnetw=g&hvrnd=4902338911133502918&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9215241&hvtargid=pla-1152560885759&pssc=1&mcid=fe7cd6d4397136fedb01145141f35f20&gad_source=1
11.jpg: <https://www.amazon.ca/Lord-Rings-Boxed-Set/dp/0007581149>
12.jpg: https://www.amazon.ca/Percy-Jackson-Complete-Box-Set/dp/0141352027/ref=asc_df_0141352027/?tag=googleshopc0c-20&linkCode=df0&hvadid=706839955142&hvpos=&hvnetw=g&hvrnd=15527781393566560559&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9215241&hvtargid=pla-298248764055&pssc=1&mcid=ad429784716a3d93b33626bc8a518968&gad_source=1
13.jpg: https://www.fangamer.com/products/celeste-hoodie-sweatshirt?srsltid=AfmBOoruDQOWz73vgwxhd_1rygaPYPA2EyWuYf9Df1Zl4i2an0baUmn1
14.jpg: <https://www.amazon.ca/Bang-Theory-Hoodie-White-XXX-Large/dp/B07QP873Yc>
15.jpg: https://www.artistshot.com/hades-games-hoodie-p-1080673117?gad_source=1&gbraid=0AAAAADf11LGDMZ2xT6l7DSq2efuCbui1K&gclid=CjwKCAiAkJu6BhAMEiwAx4UsApw7sE0LhoQfrMBtLsMZz134YXcj6sfHOVX-4moPz8TuUxkQF5Cq0hoCb5QQAvD_BwE
16.jpg: https://www.amazon.ca/Harry-Potter-Vault-Complete-Special/dp/1647221080/ref=asc_df_1647221080/?tag=googleshopc0c-20&linkCode=df0&hvadid=706843335308&hvpos=&hvnetw=g&hvrnd=5060223755603739828&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9215241&hvtargid=pla-918953556888&pssc=1&mcid=9563cae520a5366e9bf70ee26e4e6c55&gad_source=1
17.jpg: https://www.amazon.ca/Mocmm-Castle-Fantasy-Landscape-Puzzles/dp/B0881Q87N5/ref=sr_1_28?dib=evJ2IjoiMSJ9.-V9GcCdirwBgCbt4eAomNQievOXM36AHKw2SFgeEONrk6ycMGI5DGufBdj1La-etwJVzQWWP8mLK1m5Zkc5PdNUaY0ckCKAIPkOgboea4WNUwIM5e-ovg_ogkMtX-7yWmGsaNIU96c8A0mAlXe_n678m-kKokWxpUMuR_fcSpkiFse8190OETU1LREsHaRg27QXUsDWJwdsPhp_OQwS1oUKa54x8Nn4spT1B7jlobh0zL2Qo4GVUKdI2RCR0R3wBvWxRx4WWOfovvhHdQ-LO_J2KbIaqDh6jgG95mIls.SHMaUdq2tiGFOZTJpLK83y9pwGrOsWejjdL5CdfiMI&dib_tag=se&hvadid=604664004857&hvdev=c&hvlocphy=9215241&hvnetw=g&hvqmt=e&hvrnd=13089898820918453621&hvtargid=kwd-299745708879&hydadcr=26079_13539606&keywords=lord+of+the+ring+puzzle&qid=1733024040&sr=8-28
18.jpg: https://www.amazon.ca/Hobbit-Graphic-J-R-Tolkien/dp/0063388464/ref=sr_1_27?dib=evJ2IjoiMSJ9.4A-Qb_UUht5dmAwVcV1CGfpd9KiKt0k8qF98zs-78mNSW1bBH49m8018Wro00e_URcS81T9XQQbNyx-7rDmSEblZwj14xtQgFX4UMNZF1gDimOyi_StMoW-T3u9yJiGJu9MS8w7rJ7F1FfL68n48R0obSFONvBoB2C5dG03w4C6V7e-ExHgig7Vi2GnMZN9ulWzFueNjuBJvRlPyK13DOj8y5R-ZMKJLh206SigOLDRJV99LPjIXYqteY-avnsTqHZznqO3EzNdL9nuqQwegXiqwVLC6u2dZSy-JSgpA.gbdnYNWMrprPewLNgG22GM0GpiLY7iQAWyeCabiuxtA&dib_tag=se&hvadid=667162446404&hvdev=c&hvlocphy=9215241&hvnetw=g&hvqmt=e&hvrnd=16745662464474834440&hvtargid=kwd-300974745481&hydadcr=23340_13656968&keywords=the+hobbit+book&qid=1733024076&sr=8-27
19.jpg: https://www.amazon.ca/Harry-Potter-Deathly-Hallows-Keychain/dp/B01MT1O3VQ/ref=asc_df_B01MT1O3VQ/?tag=googleshopc0c-20&linkCode=df0&hvadid=706747096042&hvpos=&hvnetw=g&hvrnd=623262484022366424&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9215241&hvtargid=pla-357932136362&pssc=1&mcid=46eac2905d22332787a6850e63b44e27&gad_source=1
20.jpg: <https://www.themoviedb.org/collection/179919-percy-jackson-collection>
Treasure Chest Icon: <https://www.gamedevmarket.net/asset/treasure-chest-icons-8711>