

EnJ

COSC304 Project Design Final Report

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1. Introduction

1.1 Purpose

The purpose of this document is to outline the framework of the design and the structure of the EnJ website. It accomplishes this goal by presenting domain assumptions and an inclusive user walk-through tailored for visitors, customers, and administrators.

1.2 Mission Statement

"Our mission is to make online job marketplace happen in the world where sometimes people can't be what they want to be. We aim to create a dynamic platform connecting a wide range of job opportunities with individuals and businesses. Our commitment revolves around simplicity, empowerment, inclusivity, and innovation, fostering a community where every talent finds its perfect match and every job is valued."

1.3 Executive Summary

Our platform sets itself apart through a multitude of features designed to cater to the distinct needs of job seekers and employers. With an extensive array of job categories, we provide a diverse and inclusive space where individuals with a wide range of skills and backgrounds can discover opportunities that align with their expertise. This diversity is at the heart of our mission, promoting an inclusive community where every talent is valued, and every job holds significance.

The user experience lies at the core of our design philosophy. EnJ boasts an intuitive and user-friendly interface, ensuring that both employers and job seekers can navigate the platform effortlessly. This ease of use extends to the seamless posting and discovery of job opportunities, streamlining the entire process.

Security and transparency are paramount in our operations. We ensure that all transactions, communications, and data handling are conducted securely, establishing a foundation of trust among our users. This commitment to security extends to every interaction within the platform, fostering a safe environment for collaboration.

Embarking on this journey, we extend an invitation to job seekers, employers, and freelancers alike. Join us in building and being part of a transformative online marketplace that redefines how we connect, collaborate, and succeed in the diverse and dynamic world of work.

2. System Features

Final Overall System Features	Category	Possible Points	Points	Comments / Code Files
Documentation (15 total points)				
Executive Summary (up to 1 page)	Core	2	2	
System Features (2 pages)	Core	2	2	
List of Web and AI sources used	Core	3	3	
Walkthrough with screenshots (up to 15 pages)	Core	8	8	
Hosting (10 total points)				
Running on cloud server	Advanced	10	10	http://161.35.232.143/shop/index.jsp
Main/Home Page (up to 14 total points)				
Search for a product by name	Core	1	1	listprod.jsp
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	header.jsp
Page header shows current logged in user	Basic	1	1	header.jsp
Dynamic products on page based on sales	Basic	2	-	
Improved UI (user-friendly, images, etc.)	Basic	2	2	index.jsp
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	showcart.jsp
Remove item from shopping cart	Basic	1	1	showcart.jsp
Improved formatting/UI (e.g. in header bar)	Basic	1	1	header.jsp
Cart stored in database between sessions	Basic	3	-	
Checkout (up to 9 total points)				
Checkout with customer id	Core	1	1	checkout.jsp
Checkout with payment/shipment info	Basic	2	-	
Checkout with data validation	Basic	2	2	checkout.jsp

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.jsp
Product detail has an image from database	Core	1	-	
User Accounts/Login (up to 12 total points)				
Create user account page	Basic	2	1	createAccount.jsp
Create account with data validation	Basic	2	1	validateNewAccount.jsp
Edit user account info (address, password)	Basic	2	2	edit.jsp
Login/logout	Core	1	1	login.jsp,logout.jsp
Register user/Forgot password email	Advanced	4	4	forgotEmail.jsp forgotPass.jsp findEmail.jsp findPass.jsp
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	addrview.jsp writeReview.jsp
Display product review on product detail page	Basic	1	1	product.jsp
Restrict to one review per user on item purchased	Advanced	2	1	writeReview.jsp
Warehouses/Inventory (up to 5 total points)				
Display item inventory by store/warehouse	Basic	2	2	warehousesInv.jsp
Edit item inventory by store/warehouse	Advanced	3	-	
Administrator Portal (up to 19 total points)				
Secured by login	Core	1	1	adminAuth.jsp admin.jsp (validates with "AdminStatus" column in customer table)
List all customers	Core	1	1	admin.jsp

List report showing total sales/orders	Core	1	1	admin.jsp
Report with a graph	Advanced	3	3	admin.jsp
Add new product	Basic	2	2	admin.jsp addProd.jsp
Update/delete product	Basic	2	2	admin.jsp modProd.jsp delProd.jsp
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	2	admin.jsp
Add/update warehouse, customer	Basic	2	1	admin.jsp editWarehouse.jsp
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	Throughout, Using Bootstrap
<i>Others (your suggestions)</i>		Up to 5	-	
Additional Page query.jsp accessed through admin portal. Executes any valid sql query and displays the result. Query inputted in jsp file to avoid Sql Injection.				
Total: (out of 50 with maximum of 10 bonus marks. i.e. 60 points out of 50 is max.)			76	

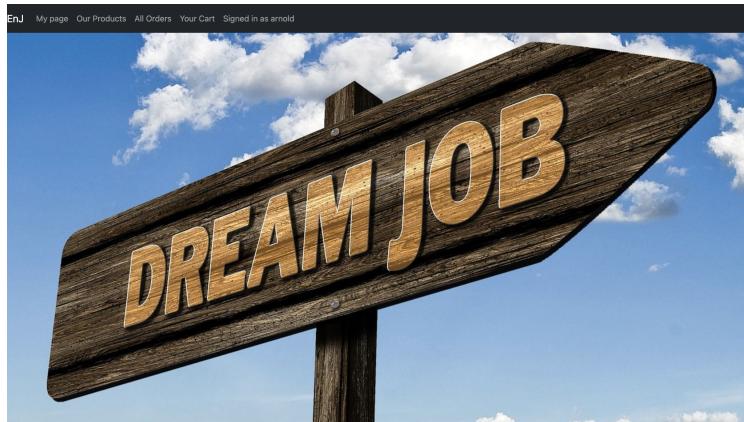
1.4 List of Web and AI sources used

- <https://pixabay.com/images/search/job/> (For images)
- <https://chat.openai.com/> (ChatGpt)
- <https://getbootstrap.com/> (Style Formatting sheets)
- <https://plotly.com/javascript/> (Open source - Interactive Plotting Library)

2. USER WALKTHROUGH

Home Page:

From here you are able to visit your page, browse our products, see your past orders and your shopping cart. **You can come back to the home page anytime when you press our company logo on the top-left corner.**



1. My Page:

Here you can create a new account if you haven't yet, login, see your cart, see your past orders and your customer information.

A screenshot of a web page titled "Welcome to EnJ". The page features a navigation menu on the left side with the following links: "Create New Account", "Login", "My Cart", "List All Orders", "Customer Info", "Administrators", and "Log out". The background of the page is a light beige color.

2. Create New Account:

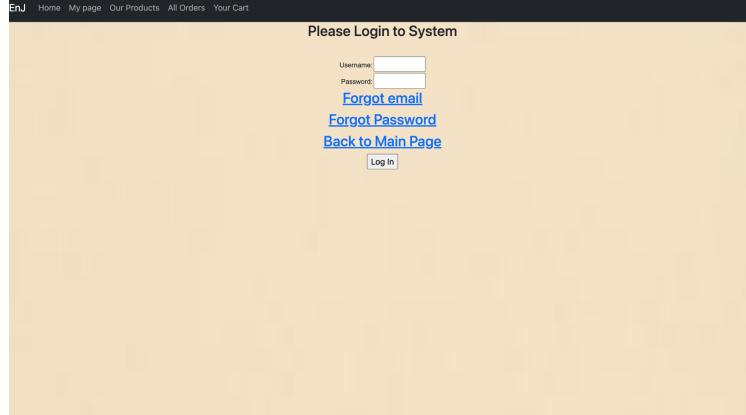
If you do not have an account with us, you can create from here. Please enter your information and proceed to the next step.

A screenshot of a web page titled "Please create an account". The page contains a form with the following fields: First Name, Last Name, Email Address, Phone Number, Address, City, State, Postal Code, County, User Id, and Password. Below the form is a "Create new account" button. The background of the page is a light beige color.

3. Login:

Here you can login with your username and your password. If you forgot email or your password, you can press the corresponding link and we will find it for you!

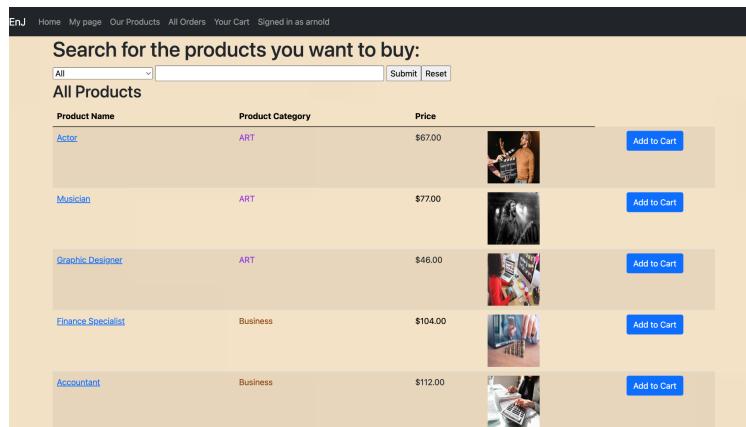
admin username: arnold / password: 304Arnold!



The screenshot shows a login form titled "Please Login to System". It includes fields for "Username" and "Password", and links for "Forgot email", "Forgot Password", and "Back to Main Page". A "Log In" button is at the bottom.

4. Product List:

Once you log in, you can see the list of our products. You can select your desired occupation and add to your cart.

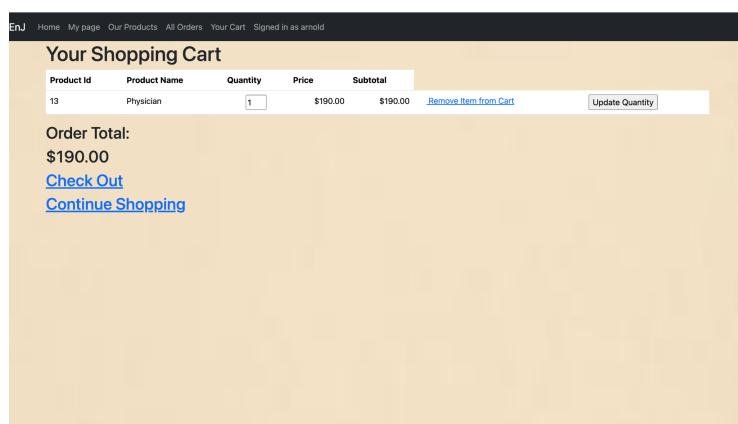


The screenshot shows a product list titled "All Products". It includes columns for "Product Name", "Product Category", and "Price". Each product entry has a thumbnail image and an "Add to Cart" button. The categories shown are ART and Business.

Product Name	Product Category	Price	
Actor	ART	\$67.00	 Add to Cart
Musician	ART	\$77.00	 Add to Cart
Graphic Designer	ART	\$46.00	 Add to Cart
Finance Specialist	Business	\$104.00	 Add to Cart
Accountant	Business	\$112.00	 Add to Cart

5. Your Cart:

Your cart is displayed when you add the job to your cart. Here, you can remove the job or update the quantity. You can also continue shopping and when you're ready, you can check out.



The screenshot shows a shopping cart titled "Your Shopping Cart". It includes a table with columns for "Product Id", "Product Name", "Quantity", "Price", and "Subtotal". A "Remove Item from Cart" button is next to the quantity input field. Below the table, the "Order Total" is listed as \$190.00, with "Check Out" and "Continue Shopping" links.

Product Id	Product Name	Quantity	Price	Subtotal
13	Physician	<input type="text" value="1"/>	\$190.00	\$190.00 Remove Item from Cart Update Quantity

6. Check out:

When you are ready to check out, you are required to enter your customer ID and password.

EnJ Home My page Our Products All Orders Your Cart Signed in as arnold

Enter your customer id and password to complete the transaction:

Customer ID:

Password:

7. Order Complete:

Once you submit, you will be sent to your order summary page. Here, you can see your new jobs and prices.

EnJ Home My page Our Products All Orders Your Cart Signed in as arnold

Your Order Summary

Product Id	Product Name	Quantity	Price	Subtotal
13	Physician	1	\$190.00	\$190.00
Order Total				\$190.00

Congratulation, you're now a Physician !
Your order reference number is: 18
Thank you for shopping and have a great day!!
[Go Back to Main Page](#)

8. List your past orders

In "My page", you can see all your past orders .

EnJ Home My page Our Products All Orders Your Cart Signed in as arnold

Order List

Order Id	Order Date	Customer Id	Customer Name	Total Amount
1	2023-12-07 04:52:30.013	1	Arnold Anderson	\$190.00

Product Id Quantity Price

13	1	\$190.00
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9. Customer Page

Here you can see your profile and update your address and password from the bottom link if you need to change it.

EnJ Home My page Our Products All Orders Your Cart Signed in as arnold

Customers Profile

First Name	Arnold
Last Name	Anderson
Email	a.anderson@gmail.com
Phone	204-111-2222
Address	103 AnyWhere Street
City	Winnipeg
State	MB
Postal Code	R3X 4S1
Country	Canada
User id	arnold

[Change Account Information](#)
[Back to Main Page](#)

EnJ Home My page Our Products All Orders Your Cart Signed in as arnold

Please edit your information

Email Address:	<input type="text"/>
Address:	<input type="text"/>
City:	<input type="text"/>
State:	<input type="text"/>
Postal Code:	<input type="text"/>
Country:	<input type="text"/>
Password:	<input type="text"/>

[Edit My Information](#)

10. Admin page:

If you are not logged in, you will be asked to and only admin can visit this page.
In this page, you can see the sales report by day as well as the customer list.
There are some additional tools where the admin can add/modify/delete the products and manage the warehouse. Admin also can reset the database.

EnJ Home My page Our Products All Orders Your Cart

Please Login to System
You have not been authorized to access the URL <http://localhost/shop/admin.jsp>

Username:	<input type="text"/>
Password:	<input type="password"/>

[Forgot email](#)
[Forgot Password](#)
[Back to Main Page](#)

[Log In](#)

EnJ Home My page Our Products All Orders Your Cart Signed in as arnold

Administrator Sales Report by Day

Order Date	Total Order Amount
2019-10-15	\$509.10
2019-10-16	\$106.75
2019-10-17	\$327.85

Sales by Day

Customer List

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

Admin Tools:

Add New Product: Modify Product: Delete Product:

Product Name: <input type="text"/>	Product Id: <input type="text"/>	Product Id: <input type="text"/>
Price: <input type="text"/>	Product Name: <input type="text"/>	<input type="button" value="Delete Product"/> <input type="button" value="Reset Form"/>
Product Desc: <input type="text"/>	Price: <input type="text"/>	
Product Category: ART	Product Desc: <input type="text"/>	
<input type="button" value="Add Product"/> <input type="button" value="Reset Form"/>	<input type="button" value="Modify Product"/> <input type="button" value="Reset Form"/>	

Warehouse Management:

Edit Mode: Add New Warehouse
WarehouseId (Leave Blank for Add): <input type="text"/>
WarehouseName (Leave Blank for Delete): <input type="text"/>
<input type="button" value="Confirm Change"/> <input type="button" value="Reset Form"/>

[Back to Main Page](#)

11. Query output

This is the output of the valid query. You can access it by pressing the button in the admin page.

EnJ Home My page Our Products All Orders Your Cart Signed in as arnold

Result of Query: Select * from product

productId	productName	productPrice	productImageURL	productImage	productDesc	categoryId
1	Actor	67.00	img/1.jpg	null	a person whose profession is acting on the stage, in movies, or on television.	1
2	Musician	77.00	img/2.jpg	null	a person who plays a musical instrument, especially as a profession, or is musically talented.	1
3	Graphic Designer	46.00	img/3.jpg	null	a person create visual concepts to communicate information.	1
4	Finance Specialist	104.00	img/4.jpg	null	an person who is responsible for the management of an organization's assets and liabilities, or on television.	2
5	Accountant	112.00	img/5.jpg	null	a professional who performs accounting functions such as account analysis, auditing, or financial statement analysis, or is musically talented.	2
6	Lawyer	82.00	img/6.jpg	null	a person who advises clients on legal matters and negotiates and mediates	2
7	Journalist	162.00	img/7.jpg	null	a person whose job is to collect news and write about it for newspapers, magazines, television, or radio	3
8	Publisher	177.00	img/8.jpg	null	a person or company that	3