University Of British Columbia

COSC 304: Introduction to Databases

KONBINI

Group 6:

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1. INTRODUCTION

1.1 Mission Statement

Japanese culture has been on the rise in recent years. Local forms of Japanese culture such as games, movies, and TV shows as well as other favorites like anime have been gaining widespread attention, especially to the western audience. We have made it our goal to help distribute Japanese products to customers by offering authentic and official Japanese goods. We hope our online store may provide quick access for people from all over the world to better understand Japanese culture.

1.2 Executive Summary

The project we have created, *Konbini,* is a one-stop shop that provides customers with Japanese products by using methods available on your daily e-commerce business. *Konbini* is taken from a Japanese word that means convenience stores. It sells Japanese products at a reasonable price value that both customers and local businesses could benefit from. By offering a medium that connects business partners with consumers, we hope quality goods will be bought and appreciated by the customers. Our online page with an efficient interface as well as a versatile and quick web page is easy to use by customers.

Konbini proudly offers all customers various amounts of interesting products that can be bought for personal hobbies or your day-to-day needs. We offer 5 distinct categories that customers could choose from Stationeries, Games, Anime Movies, Model Kits, and Japanese Snacks. These products were chosen due to their popularity and high demand.

When using the *Konbini* website, our customers would expect a quick search for their needed product availability through the category selections and a shopping cart that allows an increase and decrease in the amount of product they wanted to buy, as well as removing the whole product from the shopping cart. Our users would also have the option to be signed with their existing account or create a new account to keep track of their order history. This website also has an admin who has the power to see all information within the databases including updating and adding new entities.
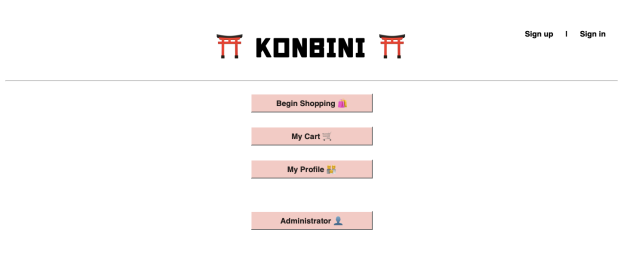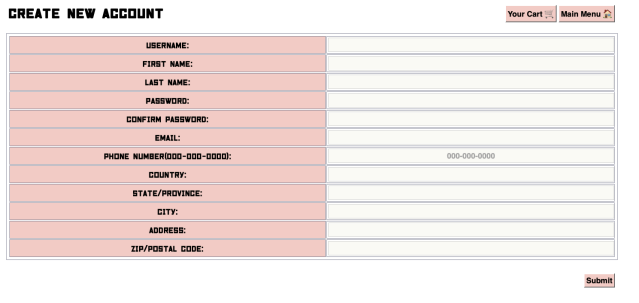
2.   System Features

Final Overall System Features	Category	Points	File
Documentation (Gorup6_304_FinalReport)			
Executive Summary (up to 1 page)	Core	2	Page 1
System Features (up to 2 pages)	Core	2	Page 2
Walkthrough/demo video - briefly show all features	Core	6	Group6_304_FinalProject.mp4
Main/Home Page			
Search for a product by name	Core	1	listprod.jsp
Browse products by category	Core	1	listprod.jsp
List products (by search/browse)	Core	1	listprod.jsp
List products with image	Core	1	listprod.jsp
Page header with menu	Basic	1	header.jsp
Page header shows the current logged in user	Basic	1	header.jsp
Improved UI (user-friendly, images, etc)	Basic	2	All files
Shopping Cart			
Add to shopping cart	Core	1	addcart.jsp, showcart.jsp
View Shopping cart	Core	1	showcart.jsp
Update quantity (with data validation)	Basic	1	addcart.jsp
Remove item from shopping cart	Basic	1	addcart.jsp
Improved formatting/UI (e.g. in the header bar)	Basic	1	showcart.jsp
Cart stored in the database between sessions	Basic	3	showcart.jsp
Checkout			
Checkout with customer id	Core	1	checkout.jsp
Checkout with data validation	Basic	2	checkout.jsp
Product Detail Page			
Product detail page and item description	Core	1	product.jsp

Product detail has an image from database	Core	1	product.jsp
User Accounts/Login			
Create user account page	Basic	2	register.jsp
Create account with data validation	Basic	2	register.jsp
Login/logout	Core	1	Login.jsp, logout.jsp
Page listing all orders for user	Core	1	customer.jsp
Product Reviews			
Ability to enter a review on a product	Basic	2	listReview.jsp, product.jsp
Display product review on product detail page	Basic	1	product.jsp
Warehouses/Inventory			
Display item inventory by store/warehouse	Basic	2	listInventory.jsp
Edit item inventory by store/warehouse	Advanced	3	updateInventory.jsp
Administrator Portal			
Secured by login	Core	1	authAdmin.jsp
List all customers	Core	1	listCust.jsp
List report showing total sales/orders	Core	1	admin.jsp
Add new product	Basic	2	addProduct.jsp
Update/delete product	Basic	2	updateProduct.jsp
Change order status/ship order	Basic	1	listShipment.jsp, ship.jsp, updateShipment.jsp
Add/update warehouse, customer	Basic	2	listWarehouse.jsp, addWarehouse.jsp, updateWarehouse.jsp, updateCustomer.jsp
Database System/General			
User interface and navigation/usability		Up to 5	All files
Total			

3.   Log in information

Store Admin	
Username	**Password**
arnold	test
Customer	
Username	**Password**
bobby	bobby
candace	password
darren	pw
beth	test

4.   Project Walkthrough

Customer Experience	
Description	**Screenshot**
The main page is the first page every user will first encounter when visiting our website. Users will then be given options on what to do within our website. As a user of our online shop, they have access to our products, their shopping cart, and their profile once logged in.	⛩ KONBINI ⛩ Sign up | Sign in Begin Shopping 🛍 My Cart 🛒 My Profile 📇 Administrator 👤
If you are a new user, you could sign up as a new member. To create a new account, your information will be requested such as their account username, password, and other profile information. This information will be stored on the website database. Once done, click submit and your account is ready to go.	CREATE NEW ACCOUNT Your Cart Main Menu USERNAME: FIRST NAME: LAST NAME: PASSWORD: CONFIRM PASSWORD: EMAIL: PHONE NUMBER(000-000-0000): 000-000-0000 COUNTRY: STATE/PROVINCE: CITY: ADDRESS: ZIP/POSTAL CODE: Submit
Navigating to the sign-in/e, users will be asked for their login information such as username and password. Once logged in, the website header will change to greet you. The main page of the website will be then updated to add one more option to log out from their account.	⛩ KONBINI ⛩ Sign up | Sign in PLEASE LOGIN TO SYSTEM Main Menu New to our store? Register here! Username: Password: Log In ✅

When selecting the begin shopping option on the main page, users will be redirected to our product page. Here, products with their prices and categories will be shown. On click, users can select the product they want to buy and its quantity.

Our product page can select which category of items you are interested in. This will allow users to navigate through the page more easily. To pick which categories you want to search, just use the drop-down option and pick the one you want and click submit.

Customers could also see the details (name, description, ID, price) and reviews of each product by clicking the name of each product on the product list page.

Every customer could also add their own review of the product. Each submission will require a 1 to 5 rating and a description about the product.

Once done with selecting items users would like to buy, users will then be redirected to see their shopping carts when clicking the Your Cart option. Here, users will see the summary of their intended purchases.	⛩ **KONBINI** ⛩ Hello, bobby! **YOUR SHOPPING CART** 🛒 Main Menu PRODUCT ID / PRODUCT NAME / QUANTITY / UPDATE QUANTITY / REMOVE ITEM 🗑 / PRICE / SUBTOTAL 17 / gimMe Roasted Seaweed / 1 / Update Quantity / 🗑 / $15.99 / $15.99 10 / Wood Go Game Set / 1 / / 🗑 / $59.99 / $59.99 ORDER TOTAL $75.98 Continue Shopping 🛒 Check Out 🛍
If the customer changes their mind on an item or wants to order more of the same item, we have options on the shopping cart page to change the quantity of a product or even remove the product completely from the shopping cart.	⛩ **KONBINI** ⛩ Hello, bobby! **YOUR SHOPPING CART** 🛒 Main Menu PRODUCT ID / PRODUCT NAME / QUANTITY / UPDATE QUANTITY / REMOVE ITEM 🗑 / PRICE / SUBTOTAL 17 / gimMe Roasted Seaweed / 2 / Update Quantity / 🗑 / $15.99 / $31.98 10 / Wood Go Game Set / 1 / / 🗑 / $59.99 / $59.99 ORDER TOTAL $91.97 Continue Shopping 🛒 Check Out 🛍
Once the customer is willing to check out, we will ask for the customer login information to validate the user. If the customer ID and/or password is incorrect, customer will not be able to proceed (a warning will be shown).	⛩ **KONBINI** ⛩ Hello, bobby! **ENTER YOUR CUSTOMER ID TO COMPLETE THE TRANSACTION:** New to our store? Register here! Your Cart 🛒 Main Menu Customer ID: _____ Password: _____ Submit Reset
After identifying your account and clicking submit, you will then be directed to a page containing your order summary and your order reference number.	⛩ **KONBINI** ⛩ Hello, bobby! **YOUR ORDER SUMMARY** PRODUCT ID / PRODUCT NAME / QUANTITY / PRICE / SUBTOTAL 17 / gimMe Roasted Seaweed / 1 / $15.99 / $15.99 10 / Wood Go Game Set / 1 / $59.99 / $59.99 ORDER TOTAL $75.98 **Order completed. Will be shipped soon...** **Your order reference number is: 7** **Shipping to customer id: 2 Name: Bobby Brown** Return to Main Menu
The Customer could also see their profile information including their name, email, phone number, etc. once login into their account. They could also see their order history on our website.	**CUSTOMER PROFILE** Log out Your Cart 🛒 Main Menu ID / 1 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 4ST COUNTRY / Canada USER ID / arnold **ORDER HISTORY** ORDER ID / ORDER DATE / TOTAL AMOUNT 1 / 2019-10-15 / $144.95 PRODUCT ID / QUANTITY / PRICE 1 / 1 / $34.98 5 / 1 / $49.98 10 / 1 / $59.99

Administrator Experience	
Description	**Screenshot**
As an admin, the user will have more authority over the website and the online shop in general. However, the admin needs to verify their login information before being able to do an admin exclusive command. If you are not eligible to access the administrator portal, a warning will be shown to the user trying to access the restricted page.	
As the admin, the user will have various power to see data within our website database such as customer list, inventory list, Orders list, Products list, Shipment list, and warehouse list. Another merit as admin, the admin can see the total sales done on the website. It is then further grouped by the date of purchase.	
The admin has the power to see all customers that have purchases on our website. The admin could see the profile of each customer. Furthermore, the admin could add new customers on their own without needing the customer to do it by themselves.	
Admin could also edit the profile information of existing customers by using their customer ID as the reference for each existing customer.	

Admins can add new products or update existing products within the database. When updating an existing product, we will ask their primary key which is their ID as the reference to which product information we are changing. When adding new products, we need to update their inventory within the designated warehouse. Hence, we will ask for the warehouse ID and the quantity of the product.	**ADD OR UPDATE PRODUCTS** 🌸 **List Products** Product Name: Product Price: Product Description: Category ID: Product ID: (enter product ID to update existing product) Warehouse ID: Quantity: (enter warehouse ID and Quantity to update existing product) Update Product | Add Product
After the customer placed their order, their orders won't be shipped instantly. The admin will create the shipment of every order once confirmed with the postal service.	**SHIPMENT LIST** Admin Page 👤 Main Menu 🏠 SHIPMENTID SHIPMENTDATE SHIPMENTDESC **UPDATE SHIPMENT STATUS** Shipment ID: Shipment Description: Submit **ADD NEW SHIPMENT** Order ID: Shipment Description: Submit
Not all shipments will be processed. This is due to the fact that we need to check the quantity of the product within the inventory first. If the requested order asks for more quantity than in the available inventory, then the shipment will be undone and a notification about the insufficient item will be shown.	**ADD SHIPMENT** Admin Page 👤 Main Menu 🏠 🌸 Shipment Page PROCESSING SHIPMENT FOR ORDER ID: 3 **Shipment is not done.** Insufficient inventory for product ID: 19 Retry
New warehouses need to be added to provide more inventory space for the new products. Hence, an admin needs to be able to add warehouses. The admin can see the warehouse list and has options to add new warehouses or update existing warehouses.	**⛩ KONBINI ⛩** Hello, arnold! **WAREHOUSE LIST** Admin Page 👤 Main Menu 🏠 WAREHOUSEID WAREHOUSENAME 1 Main warehouse **UPDATE WAREHOUSE** Warehouse ID: Warehouse Name: Submit **ADD NEW WAREHOUSE** Warehouse Name: Submit

Admin could also see the product inventory in a certain warehouse. This includes product ID, product name, quantity, and the price of the products.	**INVENTORY LIST** Admin Page 👤 Main Menu 🏠 🌸**Update inventory here** Select warehouse ID: 1 📋 Submit <table><tr><th>PRODUCTID</th><th>PRODUCTNAME</th><th>QUANTITY</th><th>PRICE</th></tr><tr><td>1</td><td>Your name</td><td>5</td><td>$34.98</td></tr><tr><td>2</td><td>Demon Slayer - Mugen Train</td><td>10</td><td>$34.98</td></tr><tr><td>3</td><td>Spirited Away</td><td>3</td><td>$29.95</td></tr><tr><td>4</td><td>Cowboy Bebop</td><td>2</td><td>$59.98</td></tr><tr><td>5</td><td>Samurai Champloo</td><td>6</td><td>$49.98</td></tr><tr><td>6</td><td>Traditional Shogi Game Set</td><td>3</td><td>$75.99</td></tr><tr><td>7</td><td>Daruma Otoshi</td><td>4</td><td>$16.80</td></tr><tr><td>8</td><td>Kendama</td><td>8</td><td>$14.97</td></tr><tr><td>9</td><td>Portable and Magnetic Shogi Game Set</td><td>3</td><td>$10.99</td></tr><tr><td>10</td><td>Wood Go Game Set</td><td>5</td><td>$59.99</td></tr><tr><td>11</td><td>Metal Build Crossbone Gundam</td><td>9</td><td>$320.00</td></tr><tr><td>12</td><td>MG Sazabi Version Ka</td><td>7</td><td>$185.00</td></tr><tr><td>13</td><td>Valtcan Prime Model Nipper</td><td>8</td><td>$30.00</td></tr><tr><td>14</td><td>HGCE Destiny Gundam</td><td>5</td><td>$42.00</td></tr><tr><td>15</td><td>RG Sword Impulse Gundam</td><td>6</td><td>$134.80</td></tr><tr><td>16</td><td>Glico Pocky</td><td>15</td><td>$8.99</td></tr><tr><td>17</td><td>gimMe Roasted Seaweed</td><td>12</td><td>$15.99</td></tr><tr><td>18</td><td>Japanese Kit Kat</td><td>8</td><td>$19.99</td></tr><tr><td>19</td><td>Japanese Snacks Assortment</td><td>3</td><td>$18.99</td></tr><tr><td>20</td><td>Amanoya Rice Crackers</td><td>16</td><td>$33.83</td></tr></table>
Admin will be able to change the quantity of a certain product within a certain warehouse.	**UPDATE INVENTORY** 🌸**Inventory List** Select warehouse ID: 1 Product ID: New Quantity: Submit
Admin has the ability to see all the customer order history. Including the order date, customer name, and all the items they have bought.	🎐 **KONBINI** 🎐 Hello, arnold! **ORDER LIST** Admin Page 👤 Main Menu 🏠 <table><tr><th>ORDER ID</th><th>ORDER DATE</th><th>CUSTOMER ID</th><th>CUSTOMER NAME</th><th colspan="3">TOTAL AMOUNT</th></tr><tr><td>1</td><td>2019-10-15</td><td>1</td><td>Arnold Anderson</td><td colspan="3">$144.95</td></tr><tr><td></td><td></td><td></td><td></td><td>PRODUCT ID</td><td>QUANTITY</td><td>PRICE</td></tr><tr><td></td><td></td><td></td><td></td><td>1</td><td>1</td><td>$34.98</td></tr><tr><td></td><td></td><td></td><td></td><td>5</td><td>1</td><td>$49.98</td></tr><tr><td></td><td></td><td></td><td></td><td>10</td><td>1</td><td>$59.99</td></tr><tr><td>2</td><td>2019-10-16</td><td>2</td><td>Bobby Brown</td><td colspan="3">$47.97</td></tr><tr><td></td><td></td><td></td><td></td><td>PRODUCT ID</td><td>QUANTITY</td><td>PRICE</td></tr><tr><td></td><td></td><td></td><td></td><td>17</td><td>3</td><td>$15.99</td></tr><tr><td>3</td><td>2019-10-15</td><td>3</td><td>Candace Cole</td><td colspan="3">$110.75</td></tr><tr><td></td><td></td><td></td><td></td><td>PRODUCT ID</td><td>QUANTITY</td><td>PRICE</td></tr><tr><td></td><td></td><td></td><td></td><td>19</td><td>5</td><td>$18.99</td></tr><tr><td></td><td></td><td></td><td></td><td>23</td><td>2</td><td>$7.90</td></tr><tr><td>4</td><td>2019-10-17</td><td>2</td><td>Bobby Brown</td><td colspan="3">$322.73</td></tr><tr><td></td><td></td><td></td><td></td><td>PRODUCT ID</td><td>QUANTITY</td><td>PRICE</td></tr><tr><td></td><td></td><td></td><td></td><td>8</td><td>3</td><td>$14.97</td></tr><tr><td></td><td></td><td></td><td></td><td>12</td><td>1</td><td>$185.00</td></tr></table>