# **USER MANUAL**

CSE 412 : Database Management

**Group 27** 

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# **GENERAL INFORMATION**

### 1.1 Application Overview

The team has created an application that allows users to select available products from an extensive catalog and purchase them by adding those products into their respective shopping cart. Replicating the core fundamentals of an online retail system such as Amazon. The application features synthetically generated data containing valuable product information such as the product name, the product's supplier, the price of the product and the quantity available for purchase. In order for any purchase to be made on the application, the buyer must either create an account or sign in to their preexisting account which contains their basic information of their name, address, phone number and email address in order to complete the orders. Furthermore, the application is also able to display critical information about the order such as its current status and whether it was canceled by the user.

## 1.2 Application Infrastructure

For the application, the team primarily utilized Node.js to manage the JavaScript libraries and maintain the connection to the PostgreSQL database. This was accomplished through the use of postgres npm package that also granted the convenience to host the database locally and start the application on the teams' local machines whenever desired. This allowed a smooth interaction between the web application and the manipulation of data on the PostgreSQL database. Furthermore, the team utilized GitHub for version control, monitoring any code changes that were made for the application and any changes of the database in PostgreSQL. The team purposely kept the project stack as lightweight as possible focusing primarily on the vital parts needed to deliver the core functionality of the application.

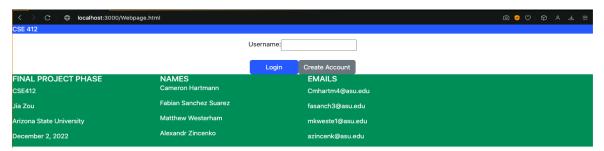
# 1.3 Application Developers

The application was created by Group 27 which consisted of Cameron Hartmann, Fabian Sanchez Suarez, Matthew Westerham and Alexandr Zincenko.

# **APPLICATION FEATURES**

## 2.1 Login

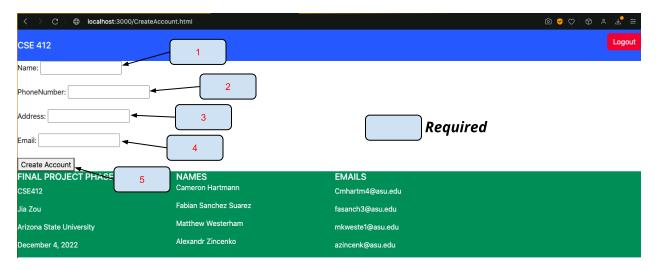
When launching the application, the user is greeted with a Login Screen that has two options to either create a new account or login into their existing account within the application.



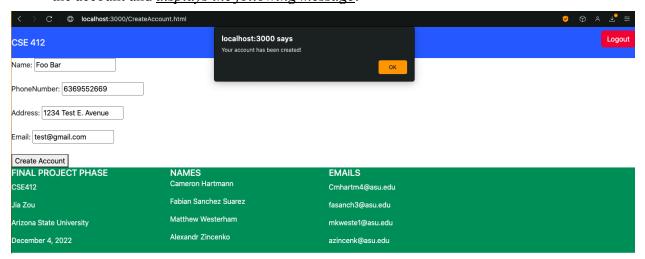
#### 2.1.1 Creating a new account

Should the user select the Create Account option, they will be redirected to a separate page where they can create their new account by filling out all the necessary information required:

- 1) Write the name of the account
- 2) Write their active phone number
- 3) Write their residential address
- 4) Write their active email address
- 5) Click the Create Account button



If the user inputs all the required information, then the application successfully creates the account and *displays the following message*.



After the account has successfully been created, please click the Logout button to return back to the Login screen to sign into the newly created account.

#### 2.1.2 Common Errors

This section represents some of the common errors that the user may encounter during account creation. If the user does input all of the required information for their account, then the application will not create the account and instead notify the user of the error encountered.

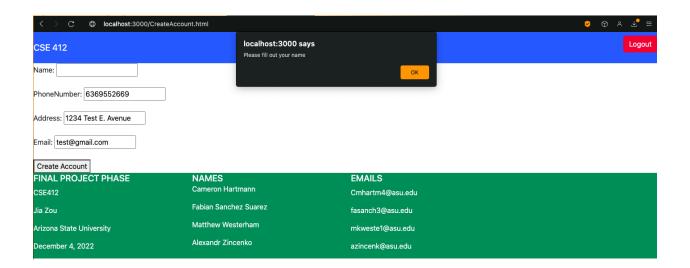


Figure 2: Missing Phone Number

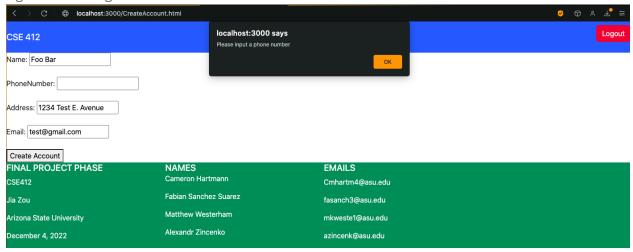


Figure 3: Missing Address Information

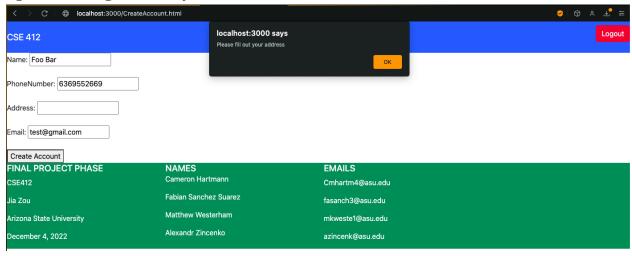
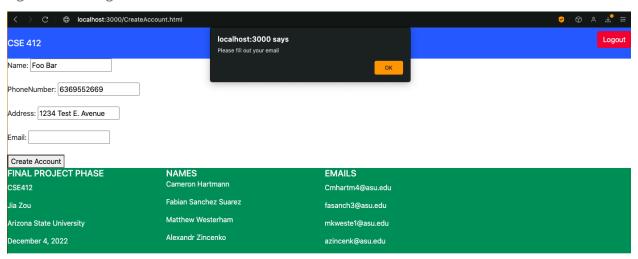


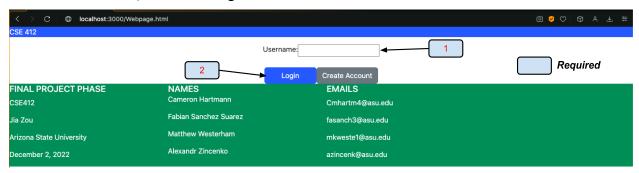
Figure 4: Missing Email Address



#### 2.1.3 Signing into an account

If a user has already registered an account within the application, they have to simply input their name/username within the Login screen. The following steps demonstrate how to sign into an account:

- 1) Enter the name of the account
- 2) Click the login button



For demonstration purposes, the previously created account "Foo Bar" will be used to demonstrate that the application correctly created the account and that the user is able to sign into it. Figure 2 demonstrates the application correctly stored the account information that the user previously inserted during their account creation (Please refer to Section 2.1.1).

Figure 1: Sign in Screen

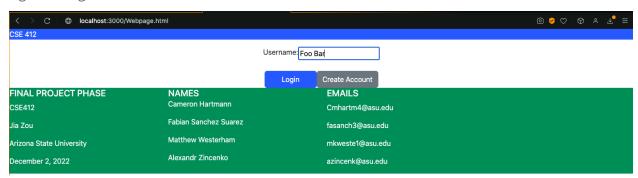
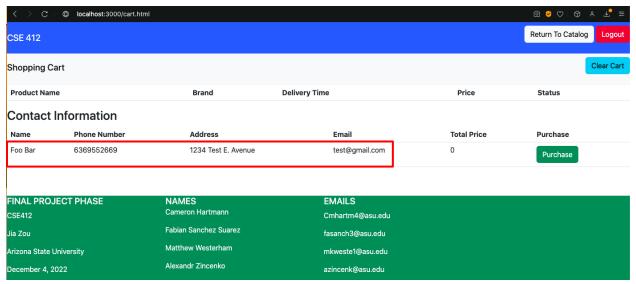


Figure 2: Verifying that the application stored the correct information



If the user has never created an account and attempts to sign into the application with an unknown account, their login will be denied and will be greeted with the following message.

Figure 3: Missing/Invalid Account



# 2.2 Product Catalog

Proceed from 2.1 Login Section

In order to access the extensive catalog of the application, it is vital that the user logs into an existing or newly created account. This will grant the user access to browse through the application's catalog and be able to add any product that they wish to purchase into their shopping cart.

#### 1) Click Add to Cart on any product you wish to purchase

For continuity purposes, the account "Foo Bar" will be utilized to illustrate the process of how to add a product from the catalog into Foo Bar's shopping cart.

Figure 1.1: Logged into Foo Bar account

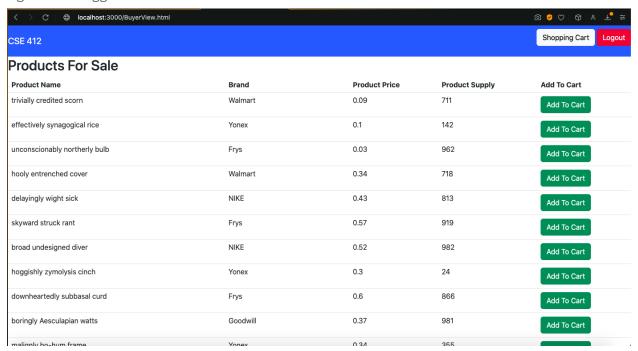
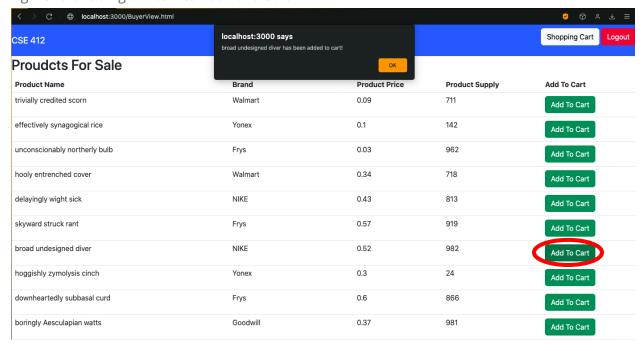


Figure 1.2: Adding an Item to Foo Bar's Cart



# 2.3 Shopping Cart

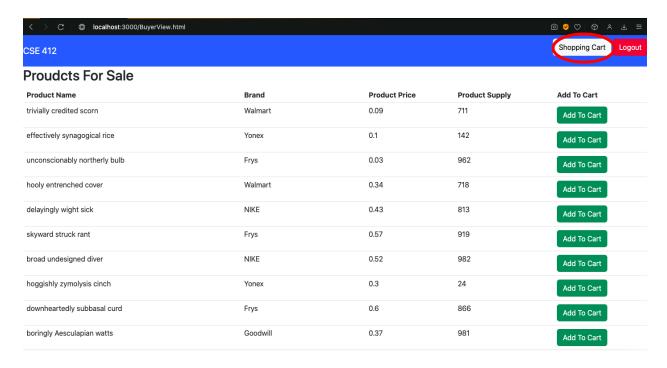
#### Proceed from 2.2 Product Catalog Section

After the user has selected and added the product into their cart, they will be brought into another screen which will contain important information regarding the status of their current/previous orders made within the application. If the user is ready to purchase, their current order, they have to do the following:

- 1) Click the Shopping Cart button
- 2) Click the Purchase button

For continuity purposes, the account "Foo Bar" will be utilized to illustrate how to purchase the newly added item from previous section 2.2 which is now located inside the shopping cart.

Figure 1.3: Click the Shopping Cart button



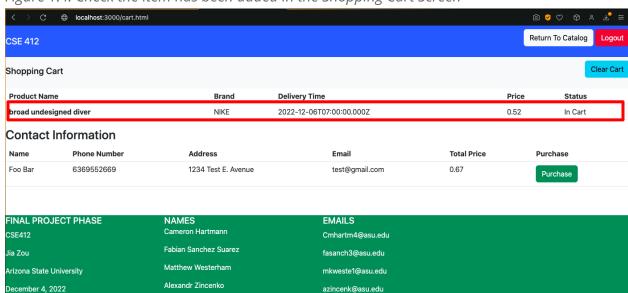
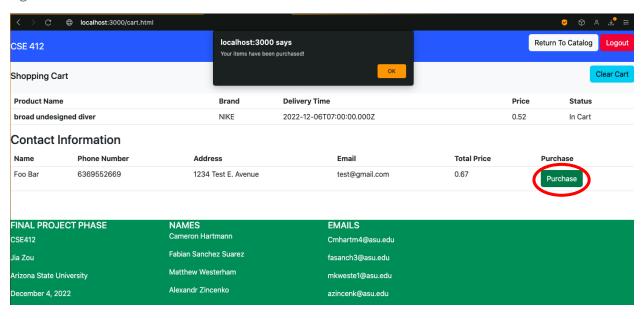


Figure 1.4: Check the Item has been added in the Shopping Cart Screen

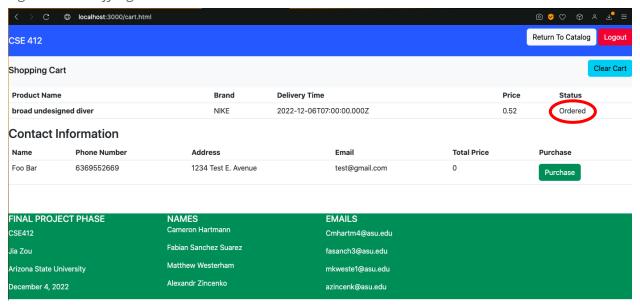
\*\* Please note that the Total Price includes the Sales Tax \*\*

Figure 1.5: Click the Purchase button



After the purchase has been made, the application will now display the changes of the order status from "In Cart" to "Ordered" as demonstrated in the figure below.

Figure 1.6: Verifying the order status



## 2.3.2 Clearing the Shopping Cart

After adding a number of products into the shopping cart, should a user need to clear their cart, they can simply do so by the following action:

1) Click the Clear Cart button

Figure 2.1: Clearing the Cart

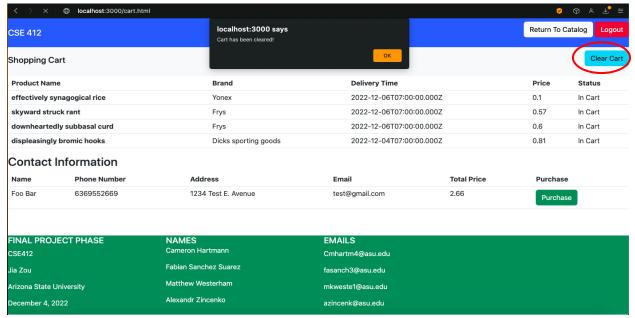
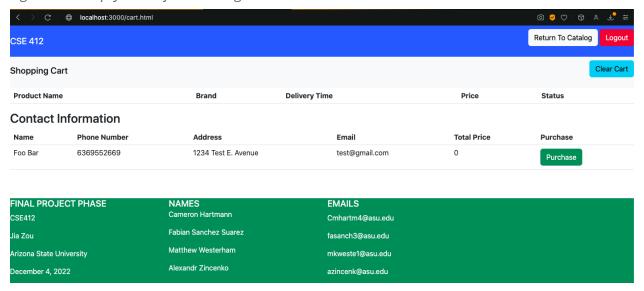


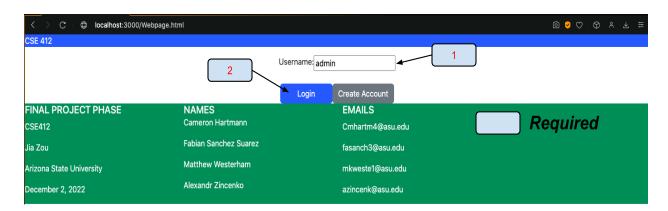
Figure 2.2: Empty Cart after clearing it



# 2.4 Admin Privileges

The administrator role is only reserved for sellers which allows them to add new products into the Product Catalog for users to select from. In order to access the administrator role, the seller must perform the following actions:

- 1) Enter "admin" into the username
- 2) Click the Login button

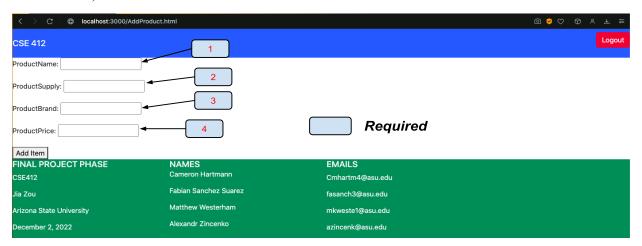


# 2.5 Updating Product Catalog

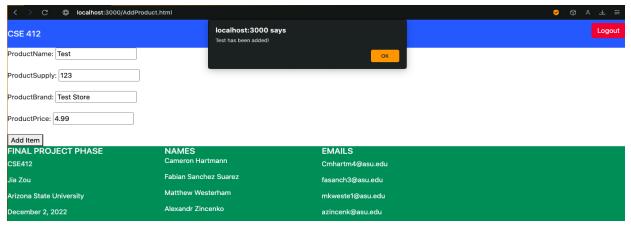
Proceed from 2.4 Admin Privileges Section

In order for sellers to be able to add products into the Product catalog, it is vital that they are logged in as administrators otherwise they will not be granted access to the add a product page. To add a new product, the administrator has to do the following actions:

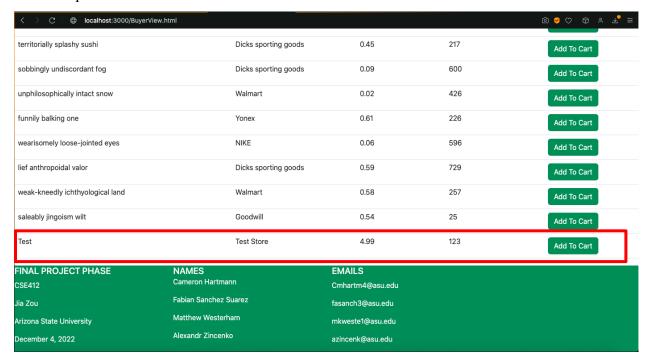
- 1) Enter the Product Name
- 2) Enter the Product Quantity [*Has to be greater than 0*]
- 3) Enter the Product Brand
- 4) Enter the Product Price [Has to be greater than 0]
- 5) Click the Add Item button



If the administrator inputs all the required information, the application will successfully add the new product and display the following message.

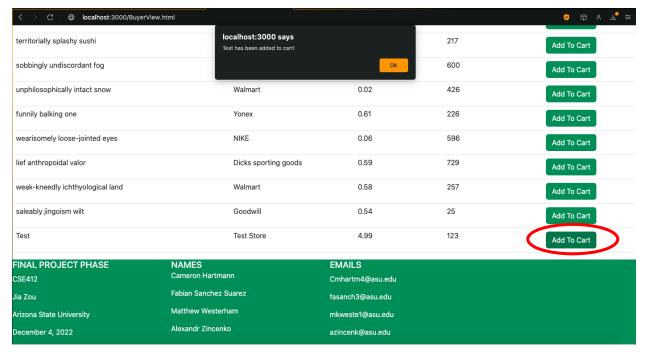


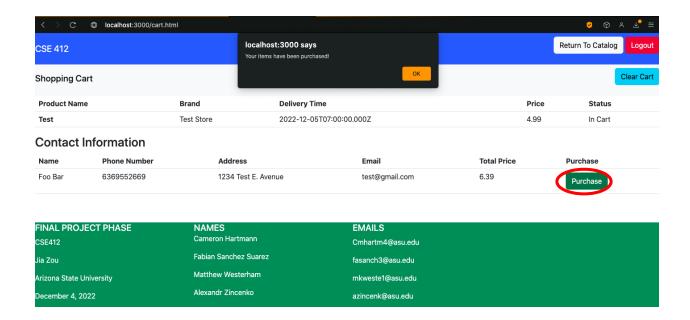
After the application added the product to the product catalog, all users will now be able to add that new product to their cart.



## 2.5.1 Adding the New Item into Cart

To add the newly added product into cart, simply find the new product from the catalog and follow the exact same steps as listed in section 2.2 and 2.3.





#### 2.5.2 Common Errors

This section represents some of the common errors that the administrator may encounter while adding a product. If the administrator does not fill out all of the required information (or enters a value of less than or equal to 0) then the application will not add the product and instead will notify the administrator of the error encountered.

Figure 1: Missing Product Name

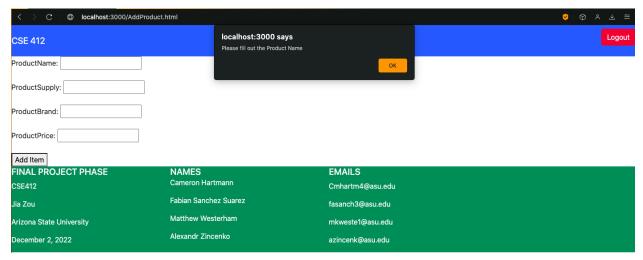


Figure 2: Missing Product Supply or Invalid input

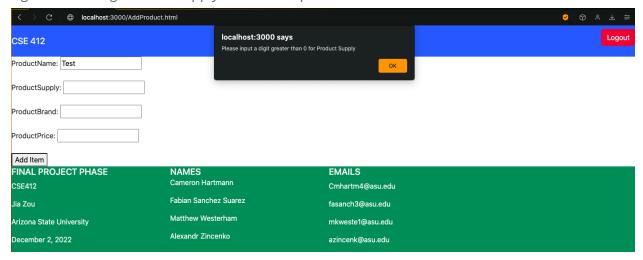


Figure 3: Missing Product Brand

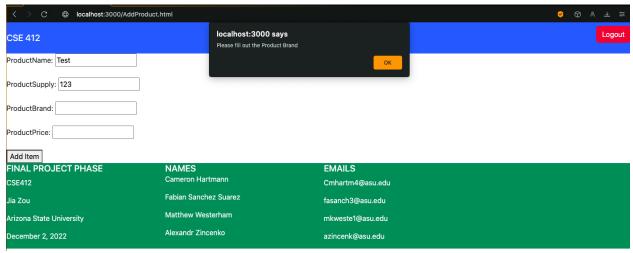


Figure 4: Missing Product Price or Invalid input

