# **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.

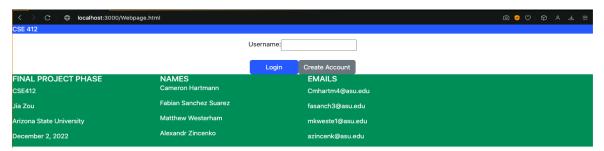
# 1.3 Application Developers

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

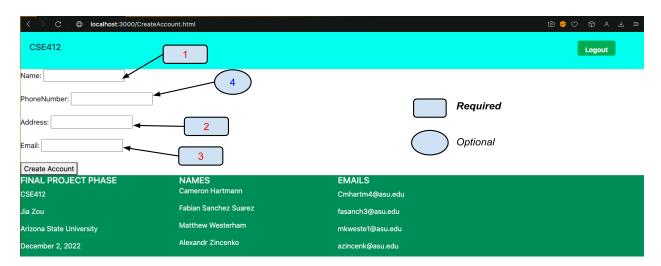
When launching the application, the user is greeted with a Login Screen that has two options to either create a new account or login into their existing account within the application.



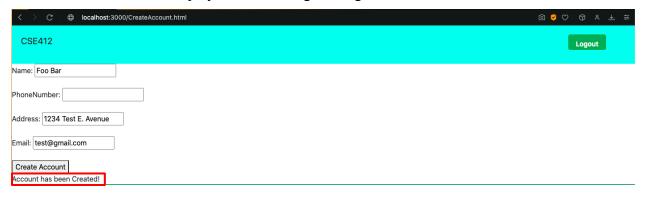
#### 2.1.1 Creating a new account

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 residential address
- 3) Write their active email address
- 4) [Optional] Write their active phone number
- 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.



#### 2.1.2 Common Errors

If the user doesn't fill out all of the required information, then the application will not be able to create the account and instead will notify the user of the error encountered.

Figure 1: Missing Account Name

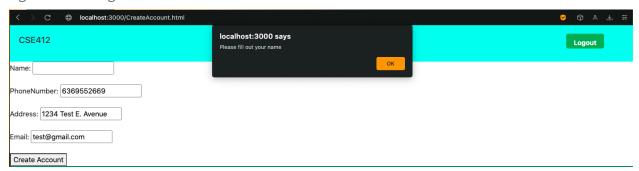


Figure 2: Missing Address Information

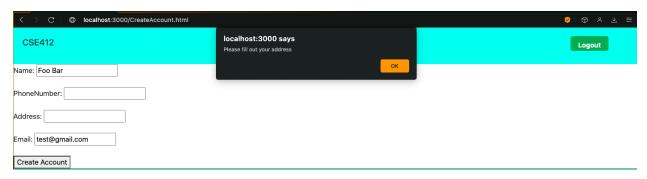
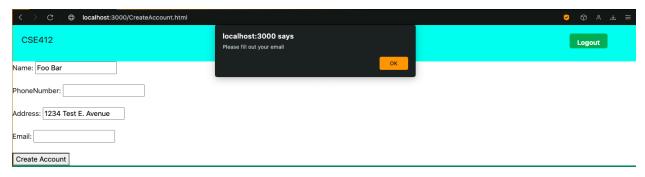


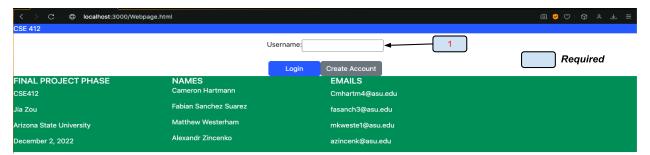
Figure 3: Missing Email Address



#### 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.

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



## 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 is already logged into their 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 demonstration purposes, the account "Betty Grove" will be utilized to illustrate the process of how to add a product from the catalog into Betty Grove's shopping cart.

Figure 1.1: Signing into Betty Grove Account

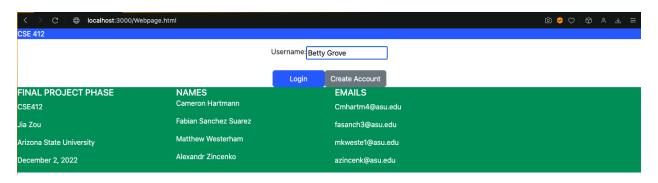
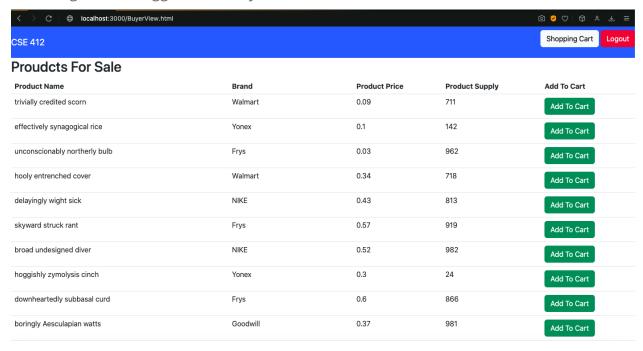


Figure 1.2: Logged into Betty Grove Account



 localhost:3000/BuyerView.html localhost:3000 says Shopping Cart SE 412 broad undesigned diver has been added to cart! **Proudcts For Sale Product Name Product Supply** Add To Cart trivially credited scorn Walmart 0.09 711 Add To Cart 142 effectively synagogical rice Yonex Add To Cart unconscionably northerly bulb 0.03 962 Frys Add To Cart hooly entrenched cover Walmart 0.34 Add To Cart delayingly wight sick NIKE 0.43 813 Add To Cart skyward struck rant Frys 0.57 919 Add To Cart broad undesigned diver 0.52 982 Add To Cart hoggishly zymolysis cinch 0.3 24 Add To Cart downheartedly subbasal curd 0.6 866 Frys Add To Cart boringly Aesculapian watts Goodwill 0.37 981 Add To Cart

Figure 1.3: Adding an Item to 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 "Betty Grove" will be utilized to illustrate how to purchase the newly added item from the previous section (2.2) which is now located inside the shopping cart.

Figure 1.1: Click the Shopping Cart button

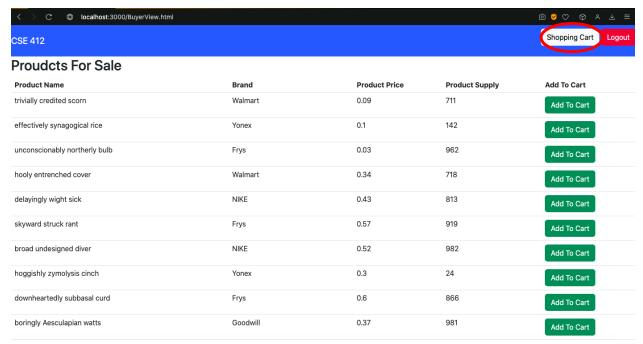
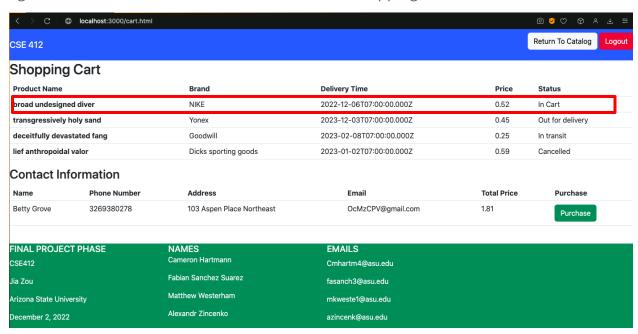


Figure 1.2: Check the Item has been added in the Shopping Cart Screen



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

C : @ localhost:3000/cart.html Return To Catalog localhost:3000 says Your items have been purchased **Shopping Cart** Product Name **Delivery Time** Price Status broad undesigned diver 2022-12-06T07:00:00.000Z 0.52 In Cart 2023-12-03T07:00:00.000Z transgressively holy sand Yonex 0.45 Out for delivery deceitfully devastated fang 2023-02-08T07:00:00.000Z Goodwill 0.25 In transit lief anthropoidal valor 2023-01-02T07:00:00.000Z Dicks sporting goods 0.59 Cancelled Contact Information Name Phone Number Address Email **Total Price** Purchase Betty Grove 3269380278 103 Aspen Place Northeast OcMzCPV@gmail.com 1.81 Purchase FINAL PROJECT PHASE **EMAILS** Cameron Hartmann CSE412 Cmhartm4@asu.edu Fabian Sanchez Suarez Jia Zou fasanch3@asu.edu

mkweste1@asu.edu

azincenk@asu.edu

Figure 1.3: Click the Purchase button

## 2.4 Admin Privileges

Arizona State University

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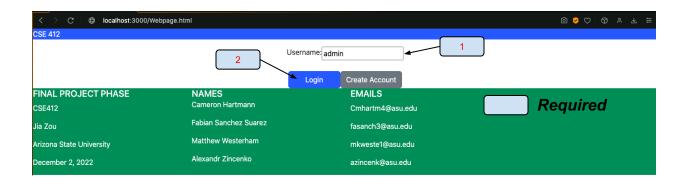
The administrator role is only reserved for sellers which allows them to add new products into the Product Catalog for users to select from. In order to access the administrator role, the seller must perform the following actions:

1) Enter "admin" into the username

Matthew Westerham

Alexandr Zincenko

2) Click the Login button

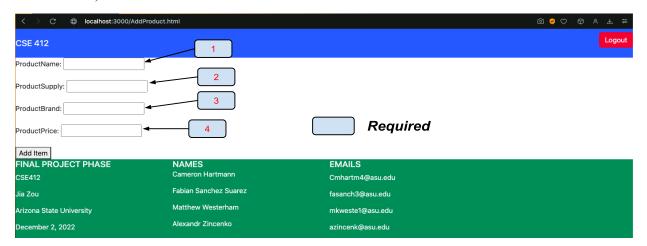


## 2.5 Updating Catalog

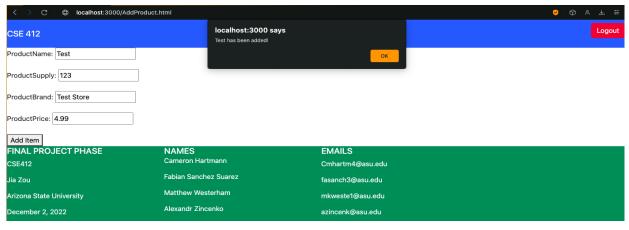
Proceed from 2.4 Admin Privileges Section

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 in order to add the new product the application will successfully add and display the following message.



#### 2.5.2 Common Errors

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 be able to add the new product and instead will notify the administrator of the error encountered.

Figure 1: Missing Product Name

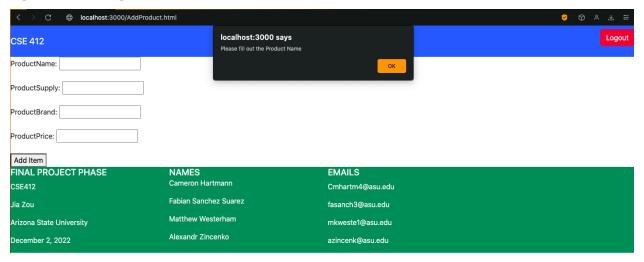


Figure 2: Missing Product Supply or invalid input (Less than or equal to 0)

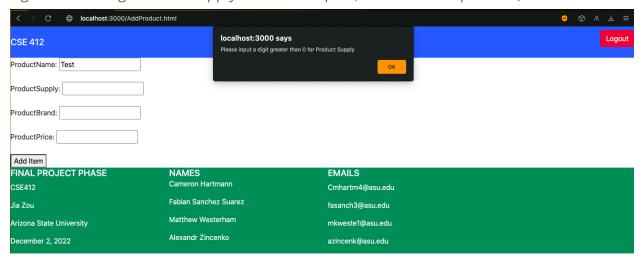


Figure 3: Missing Product Brand

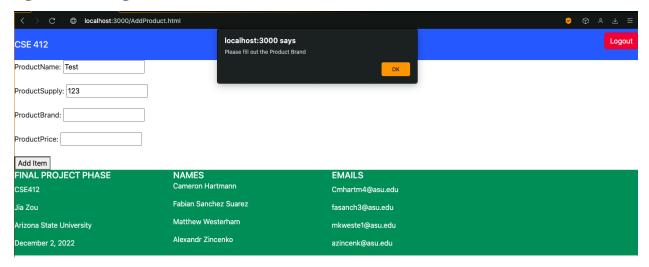


Figure 4: Missing Product Price or invalid input (Less than or equal to 0)

