Iteration 2 Use Cases

1. As a user (cashier or manager), I want to log in the system.

- Name: Logging into the system.
- Actor: Cashier or Manager
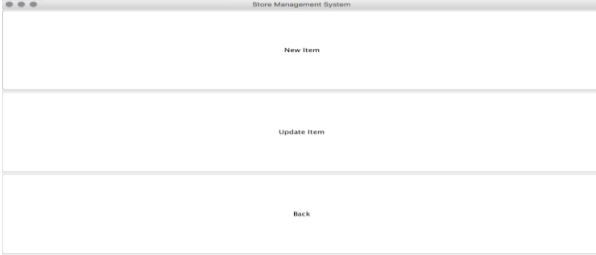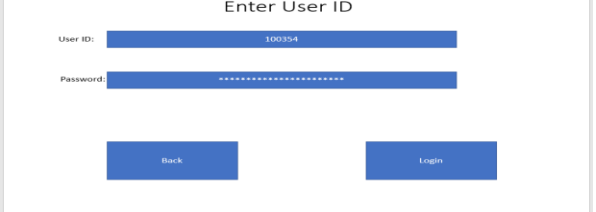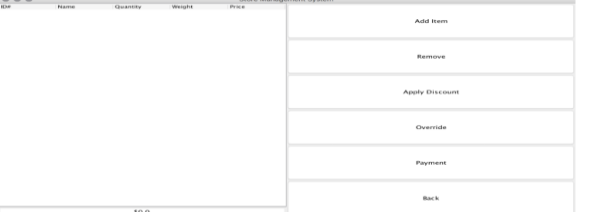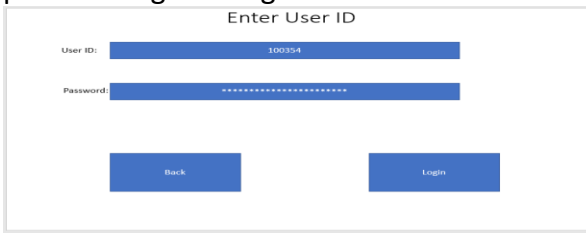- Goals: A user will power on the system and be presented with two options. One option will be manager and the other will be cashier. A user will be recognized by the system by both a username and a password. The user will be denied if their username or password is wrong. The user will be denied if they attempt to sign in as a role they do not hold.
- Pre-conditions: The system is powered on and the options of "cashier" and "manager" are on the screen.
- Summary: The user will select to log into the system as either a cashier or manager. The system will check to make sure that the username and password is recognized and perform some error checking regarding the type of user.
- Steps:

User Action	System Response
1. Select cashier or manager from the initial screen. 	2. Display the login screen.
3. Enter in cashier/manager ID and password. 	3.1. Verify user credentials are correct and show next screen (Manager).
3.2 Enter in cashier/manager ID and password. 	3.3 Verify user credential are correct and show next screen (Cashier).

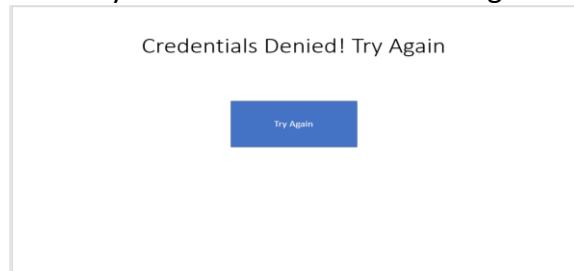| 3.4 Enter in cashier/manager ID and password again if login is denied.	3.5 Deny user if credentials are wrong.
Enter User ID User ID: 100354 Password: .... Back Login	Credentials Denied! Try Again Try Again

- Post-conditions: The user is now signed in as either a manager or cashier. They will be presented with the next screen in the system based on what they signed in as. The manager and cashier will have different screens.

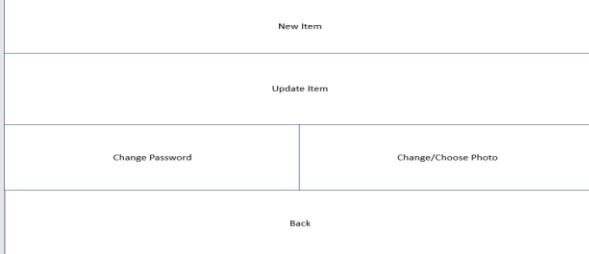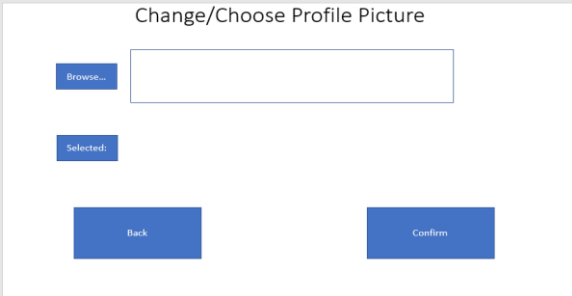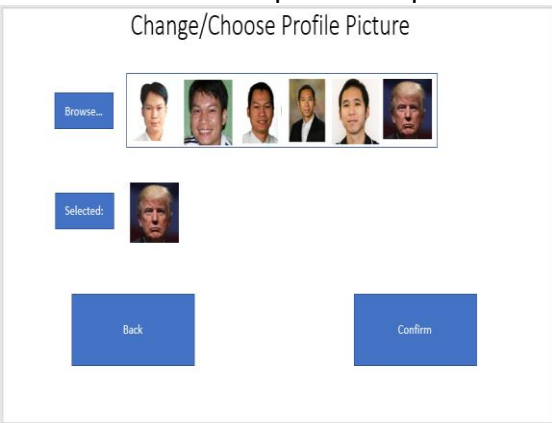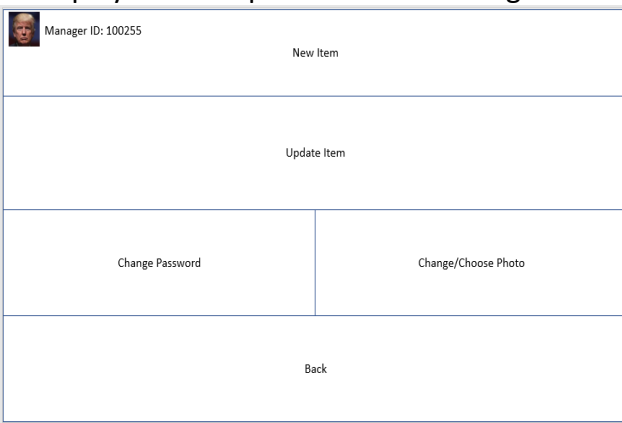2. As a user, I want to change my login password.
- Name: Change password.
- Actor: Cashier or Manager
- Goals: A user, either cashier or manager, has a need to change their password in the system. In this case, there will be an option to do so by selecting this button and being prompted to change their password. The new password will be accepted and stored in the system so that the next time they would like to login, it will allow them to do so with the newly set password.
- Pre-conditions: The system is powered on. A user, either cashier or manager, is currently logged into the system. The user can see an option to change their password.
- Summary: The user will choose to change their password. They will enter in their new password that they want the system to remember. The new password will be saved in the system and will be ready to be used for the next time the user wants to log in.
- Steps:

User Action	System Response
1. Logged in as a manager, select change password.	2. Display password changing screen.
3. Enter in a new password.	4. Store new password and exit password changing session.
1.1. Logged in as a cashier, select change password.	2.1. Display password changing screen.
3.1 Enter in a new password.	4.1 Store new password and exit password changing session.

- Post-conditions: The user has successfully changed their password in the system. The old password is no longer valid and the new password is now the only password that will be recognized when a user is logging in.

3. As a user, I want to change my display/profile photo.
- Name: Change photo.
- Actor: Cashier or Manager
- Goals: A user, cashier or manager, wants to change their display/profile photo. The user will be able to select a button to change/choose their photo. The user will be able to select which picture they want as their photo. The photo will be stored in the system and remain as their photo until it is changed. Their photo will appear next to their name when this particular user is logged in.
- Pre-conditions: The system is powered on. A user, either cashier or manager, is currently logged into the system. The user can see an option to change/choose their photo.
- Summary: The user will choose to change/choose their profile picture. After selecting this option, the user will select which photo they want as their own. Once a photo has been selected, the system will remember which photo belongs to the user and will appear next to the username when this particular user is logged into the system.
- Steps:

User Action	System Response
1. Logged in as a manger, select the change/choose photo button.	2. Display change/choose photo screen.
3. Select to choose a photo to upload.	4. Display selected photo next to manager ID.

1.1 Logged in as a cashier, select the change/choose photo button.	2.1 Display change/choose photo screen.

3.1 Select to choose a photo to upload.	4.1 Display selected photo next to cashier ID.
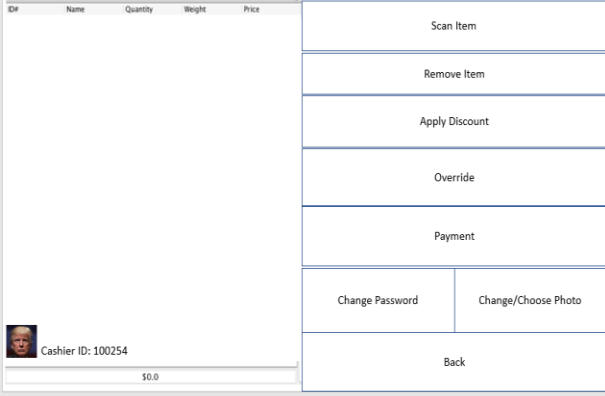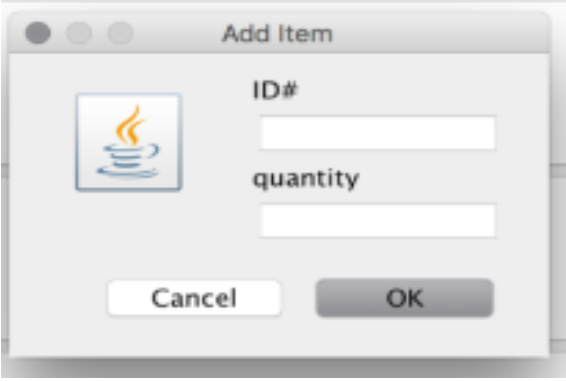
- Post-conditions: The user has successfully chosen their profile photo. The system now remembers that this is only their photo and will appear next to the name of the user when they are logged into the system. The user can select to change the photo when they want to replace it.

4. As a cashier, I want to check out an order.
- Name: Checkout.
- Actor: Cashier
- Goals: A cashier will begin checkout out a customer by "scanning" the item into the system. Essentially a cashier will enter in the product information and the system will recognize the item and display its information in the "cart". The system will allow the cashier to select the method of payment, remove an item, or cancel the order.
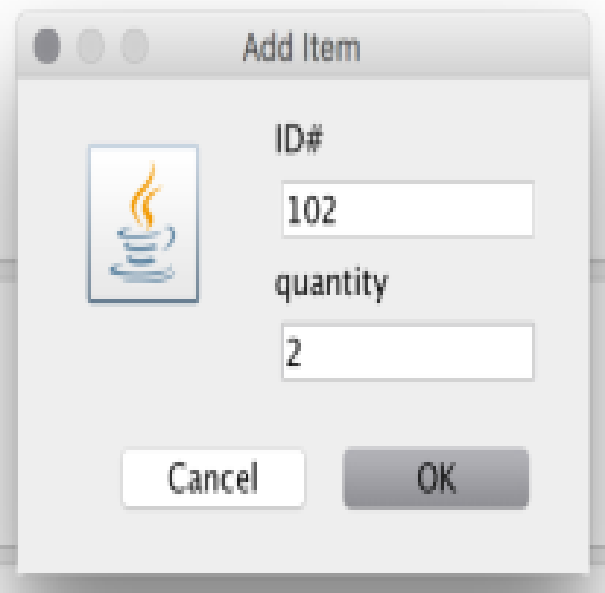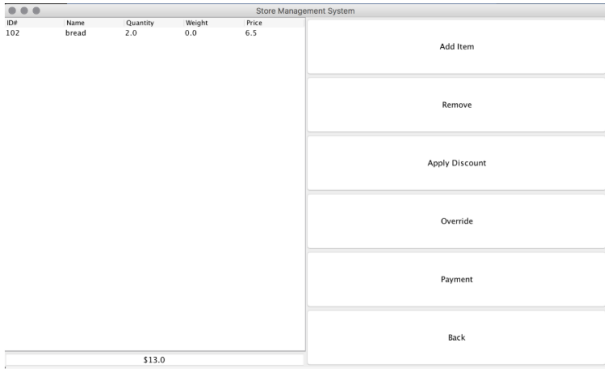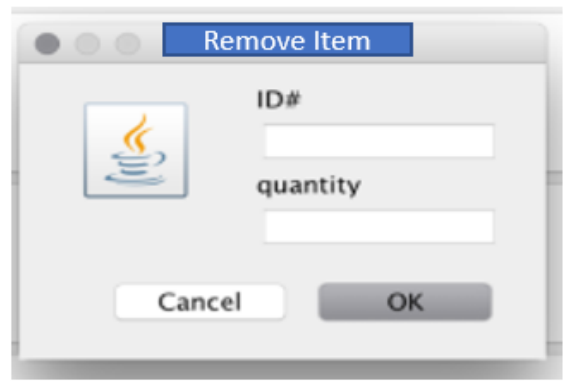- Pre-conditions: The user is a cashier and has the system powered on. The cashier has a "scale" and "barcode reader" in working condition. There is a cashier logged into the system and they are on the checkout screen. All of the options for scanning/adding items are available to the user.
- Summary: The cashier will begin scanning/adding every item that the customer would like to purchase. Once, added into the "cart", the system will keep an ongoing list of the item name, number, price, quantity, and weight and display this information to the user. This process will continue until all items have been scanned in. The cashier will select to
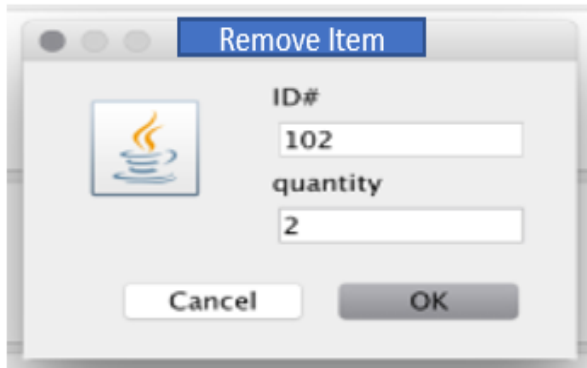
finalize the checkout process and choose the payment type. The payment will be processed and the order will be confirmed.

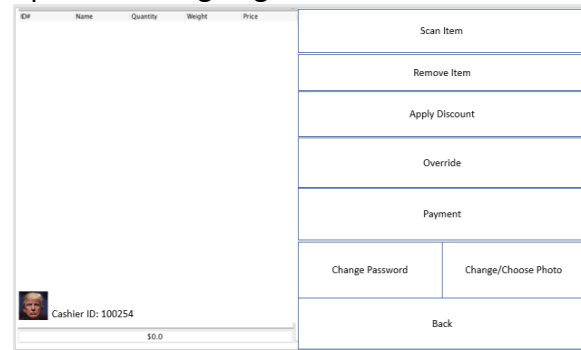- Steps:

User Action	System Response
1. Select to add (scan) an item into the cart. 	2. Display item entry screen.
3. Enter in item ID and quantity. 	4. Verify this item exists in the system and display in the ongoing cart screen.
5. Select to remove an item if desired. 	6. Display item removal screen.

7. Enter in item ID and quantity. **Remove Item** ID# 102 quantity 2 Cancel OK	**8. Verify this item exists in the cart and update the ongoing cart screen.** ID# Name Quantity Weight Price Scan Item Remove Item Apply Discount Override Payment Change Password Change/Choose Photo Cashier ID: 100254 Back $0.0
9. Select to apply discount if desired. Store Management System ID# Name Quantity Weight Price 102 bread 2.0 0.0 6.5 101 coke 1.0 0.0 3.0 Add Item Remove Apply Discount Override Payment Back $16.0	**10. Display items available for discount.** Items Available For Discount: | ID#	Name	Quantity	Weight	Price
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102	bread	2.0	0.0	6.5
101	coke	1.0	0.0	3.0	 Back Enter Discount
11. Choose item to apply discount to. **Select Item** ID# 102 quantity 2 Cancel OK	**12. Subtract the discount from the ongoing total.** Store Management System ID# Name Quantity Weight Price 102 bread 2.0 0.0 6.5 101 coke 1.0 0.0 3.0 Add Item Remove Apply Discount Override Payment Back $16.0
13. Select to override if desired. ID# Name Quantity Weight Price Scan Item Remove Item Apply Discount Override Payment Change Password Change/Choose Photo Cashier ID: 100254 Back $0.0	**14. Display manager login request screen.** Enter User ID User ID: Password: Back Login
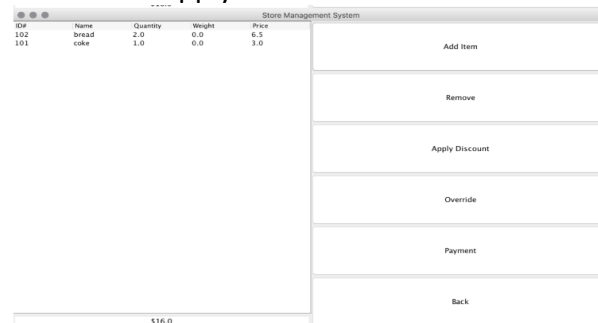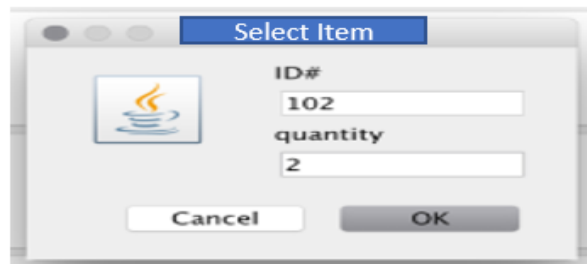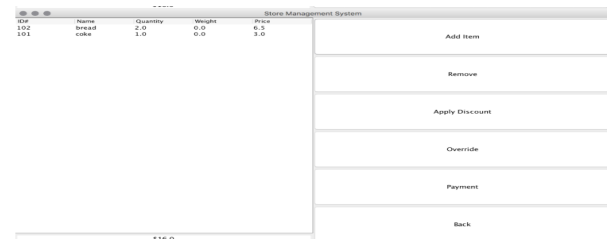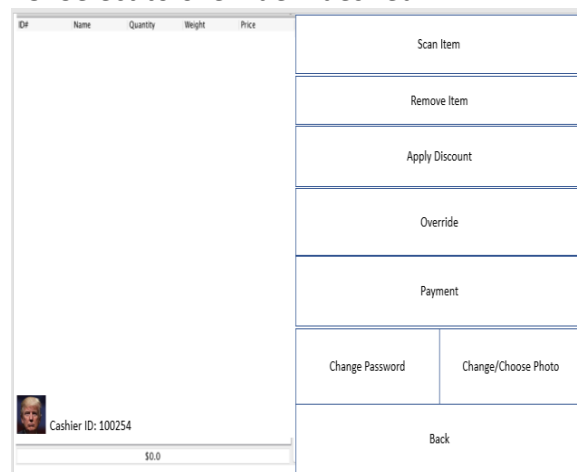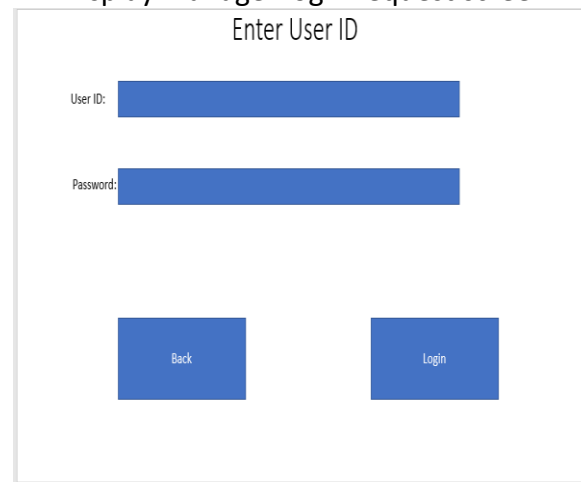
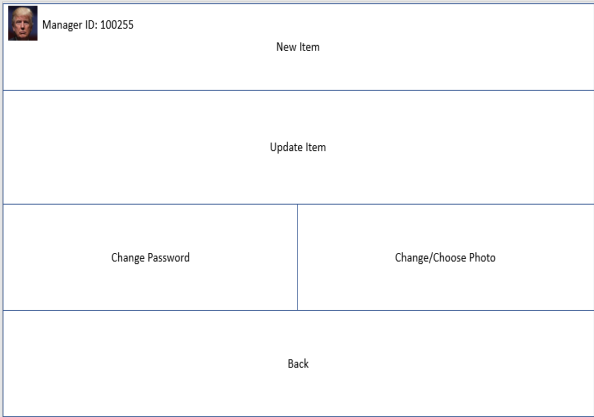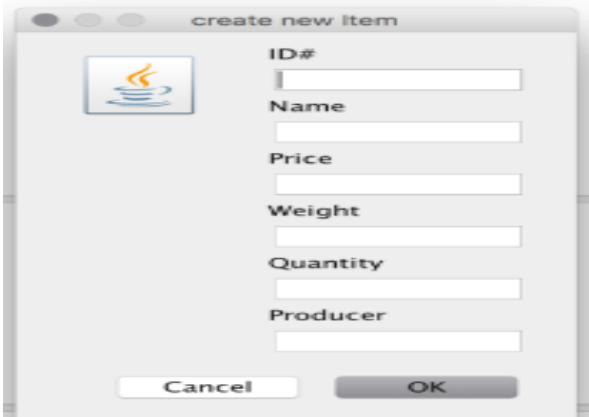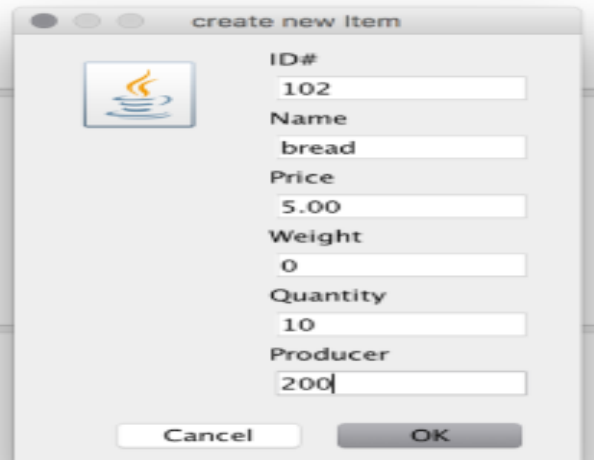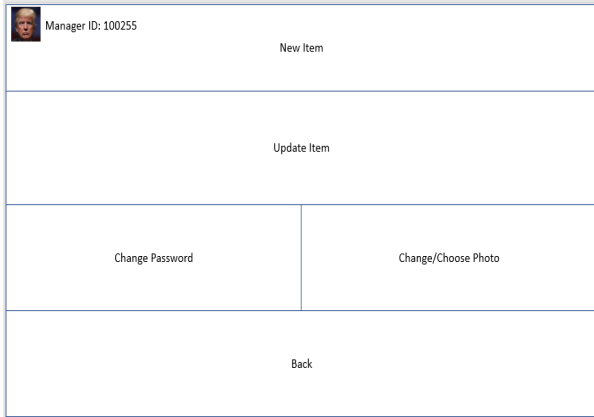| 15. Select item to manage.	16. Display changes to the ongoing cart.
Select Item to Manage: ID# Name Quantity Weight Price 102 bread 2.0 0.0 6.5 101 coke 1.0 0.0 3.0 Back Manage Item	Store Management System ID# Name Quantity Weight Price 102 bread 2.0 0.0 6.5 101 coke 1.0 0.0 3.0 Add Item Remove Apply Discount Override Payment Back $16.0
17. Select to initialize the payment process.	18. Display payment options screen.
ID# Name Quantity Weight Price Scan Item Remove Item Apply Discount Override Payment Change Password Change/Choose Photo Cashier ID: 100254 Back $0.0	Store Management System ID# Name Quantity Weight Price 102 bread 2.0 0.0 6.5 101 coke 1.0 0.0 3.0 Cash Credit/Debit Gift Card Finish Back $0.0
19. Choose appropriate payment method.	20. Accept payment and reflect the payment made.
Store Management System ID# Name Quantity Weight Price 102 bread 2.0 0.0 6.5 101 coke 1.0 0.0 3.0 Cash Credit/Debit **Cash Payment** Enter Cash Amount 16. Cancel OK Gift Card Finish Back $16.0	Store Management System ID# Name Quantity Weight Price Cash Credit/Debit Gift Card Finish Back $0.0

- Post-conditions: The cashier has successfully checked out a customer. The "cart" is now empty and is not currently displaying any more items. The database has been reduced to reflect the items that have been sold. The cashier is still logged into the system for preparation to checkout the next customer.

5. As a manager, I want to add a new product into the system's database.
   - Name: Adding a new product.
   - Actor: Manager
   - Goals: A manager has a need to add a new product into the system whenever there is a new product on the market or one has simply not been added yet. Adding it to the

system will store the item permanently into the database so it will not have to be added again. The option to add an item will only be allowed if the user is logged in as a manager. The manager will select the "add item" option and will enter in all the fields that need filling out. The system will make sure that this item is not already in the database. Now, this item will be recognized when a cashier adds this item within an order.

- Pre-conditions: The manager is logged into the system. The item they are trying to add into the system is not already present within the database.
- Summary: The manager has a need to add a new item into the system so that for future checkouts it will be recognized by the system. A manger will select the "add item" option and begin entering the empty fields. The manager will select the save the item so that it will not have to be re-added again.
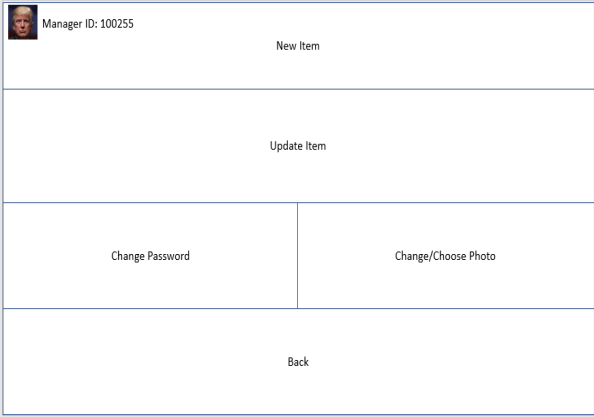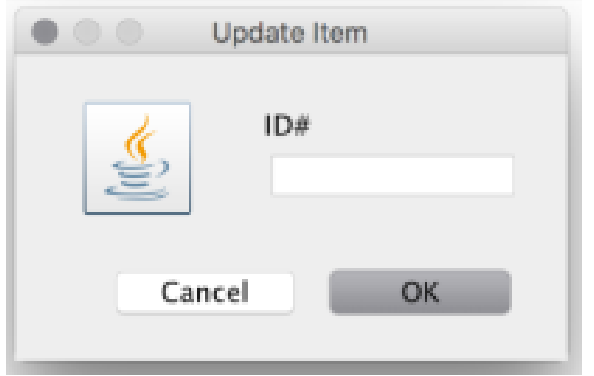- Steps:

User Action	System Response
1. Select the new item button.	2. Display the new item entry screen.
3. Enter in the fields for the new item.	4. Verify the item does not already exist in the system and then close the screen.

- Post-conditions: The manager has successfully added a new item into the system. They are still logged in so they can choose to add another item during this session or exit. The
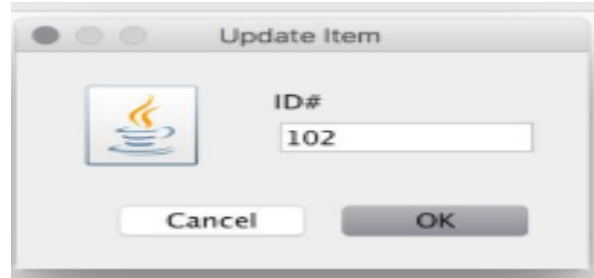
new product is now recognizable whenever it is needed. Now, the product's details will appear just like all the other products in the system.

6. As a manager, I want to update a current product in the system's database.
  - Name: Updating a current product.
  - Actor: Manager
  - Goals: A manager will need to update information of a product from time to time. Some changes may include adjusting the price, quantity, or name. In order for the system to reflect these changes upon a checkout, the manger will need to select to update an item and then type in the ID of the item they wish to update. Only a manager will be allowed to make this update. The goal here is to successfully make edits to an already present item in the system so that for future transactions the new information is displayed and the old information is discarded.
  - Pre-conditions: The manager is logged into the system. The manager has selected the button to "update product". The item they are trying to update is already located within the database.
  - Summary: The manager may need to make an update to an already existing item in the system. This use case allows a manager to make an update rather than making an entirely new entry. The manager may want to make changes to price, quantity, or name. The manager will locate the item in the system by entering in its product ID. That item's current fields will be shown and they will be able to overwrite the present information. The old information will be discarded and the new information will now be the information shown if the manager ever wishes to update the item again.
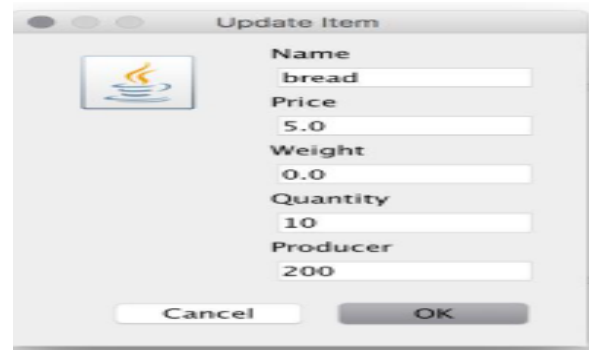 - Steps:

User Action	System Response
1. Select the update item button.	2. Display the update item screen.

3. Enter in the ID for an existing item to update.	4. Verify the item exists in the system and display that item's information.
5. Edit any information that needs to be changed.	6. Store the changes and then close the screen.
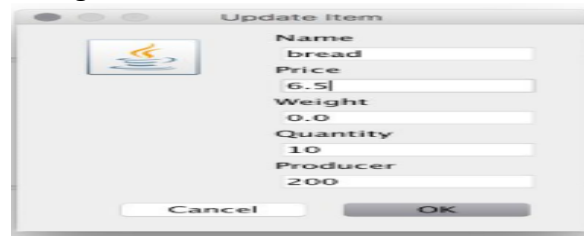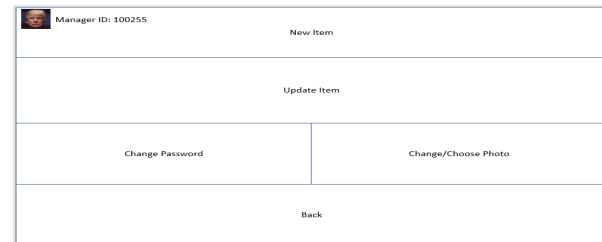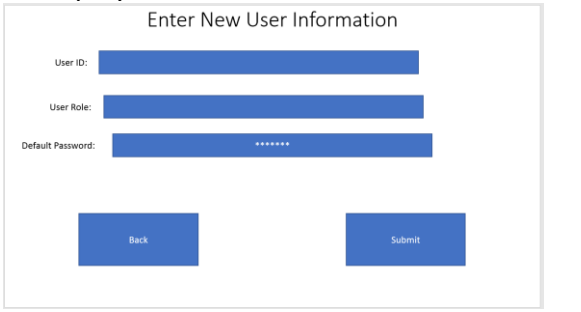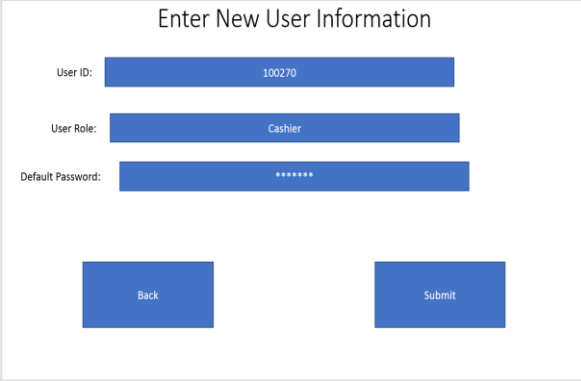
- Post-conditions: The manager has successfully made updates to an already existing item in the system. They are still logged in so they can choose to make changes to another item during this session or exit. The product now has new details and the old details have been discarded. Next time the item is added during checkout, the new entry details will be associated with the item.

7. As a manager, I want to create a new user, assign role (e.g. manager or cashier), and generate a default password for a new user.
- Name: Create new user & user role.
- Actor: Manager
- Goals: A manager needs to be able to create a new user within the system. This manager will be able to choose if the new user has cashier or manager privileges. An ID will be given to this new cashier/manager and a default password will be given to them for their initial login, or until they choose to change it.
- Pre-conditions: The system is powered on and a manager is currently logged in. The manager has an option to add new users.
- Summary: Whenever a new employee is hired, the system will not have any information on them. So, a manager will need to log into the system and create a user profile for any new employees. The manager will select to add a new user and then assign them a role. Upon completion, the new user will have an ID, role, and default password.
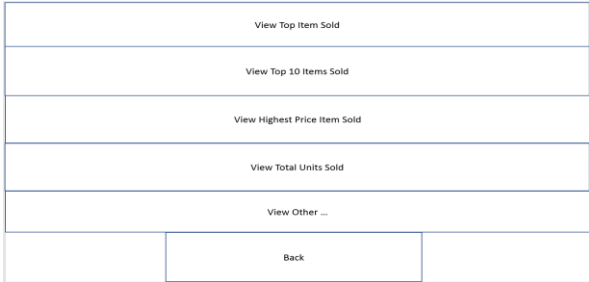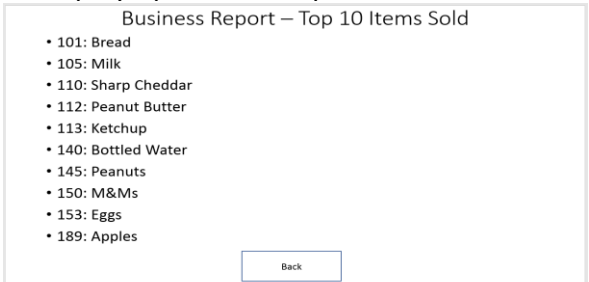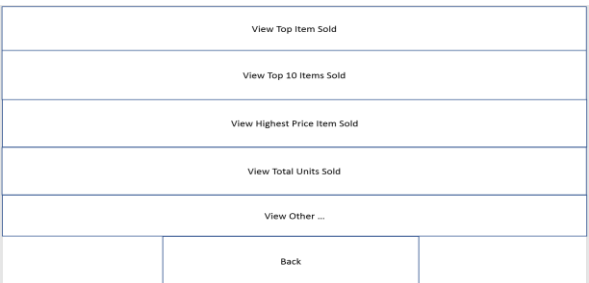- Steps:

User Action	System Response
1. Select the create new user button.	2. Display new user creation screen.
3. Enter in the ID and role for the new user.	4. Validate the entry and close the window.
5. Repeat steps 1 and 3 for any other users.	6. Repeat steps 2 and 4 for any other users.

- Post-conditions: The manager has successfully enrolled a new employee in the system with the role of either a cashier or manager. Now, this new employee can successfully login to the system on their own and fulfill the duties of whatever role they were assigned. When they login to the system, they will use their default password and then will be able to change it whenever they want.

8. As a manager, I want to view and sort the business report: e.g., what products are sold, how many units, how much revenue…
- Name: View and sort business report.
- Actor: Manager

- Goals: A manager needs to be able to view and sort a business report in order to get an idea of how they store is doing. A manager will be able to select to generate a report and then have options on what data they would like to see such as a total list of the products sold, how many units were sold, how much revenue the store has brought in, and others.
- Pre-conditions: The system is powered on and a manager is logged into the system. The manager has an option to generate a report.
- Summary: A manager will be logged into the system and might want to see how business is going. They will select the generate report button and then be given options on what information they would like to see in the report. The options available will be ones such as the top product sold, total revenue, and others. The report will be displayed and an option to go back and generate a new filter will be available.
- Steps:

User Action	System Response
1. Select the button to view a business report.	2. Display business report options.
3. Choose button to filter the report.	4. Display options in response to user choice.
5. For further reports, select the back button and issue another filter.	6. Repeat step 4 for appropriate filter.

7. Select back when done generating reports.	8. Display original manager screen.
View Top Item Sold	Manager ID: 100255 · New Item
View Top 10 Items Sold	Update Item
View Highest Price Item Sold	View Business Report
View Total Units Sold	Change Password · Create New User · Change/Choose Photo
View Other …	
Back	Back

- Post-conditions: A manager has successfully been able to generate a report of the system. This has not affected the inventory in any way as it is only a data retrieval tool. The report can be closed and then the manager will be brought back to their original screen.