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Use case analysis

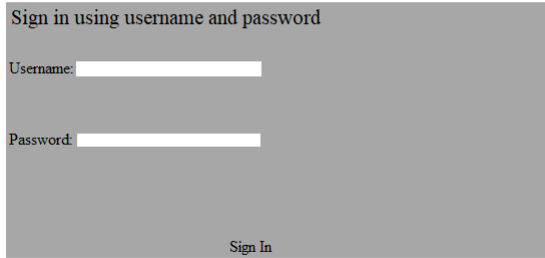The following user stories are to be supported in Iteration 2:

1. As a user (cashier or manager), I want to log in the system
2. As a user, I want to change my login password
3. As a user, I want to change my display/profile photo
4. As a cashier, I want to check out an order
5. As a manager, I want to add a new product into the system's database
6. As a manager, I want to update a current product in the system's database
7. As a manager, I want to create a new user, assign role (e.g. manager or cashier), generate a default password for a new user
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...

Task: Write a detailed use case for each user story. At each step, a prototyped screen should be provided, sketching how the system might look and work.

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Use Case 1: Logging in

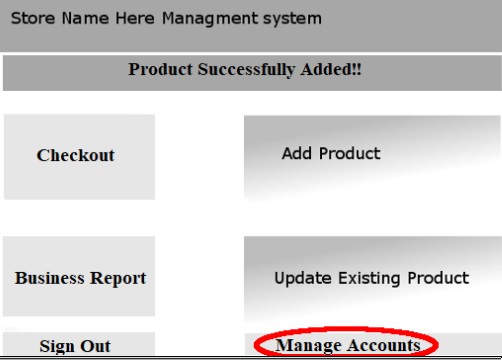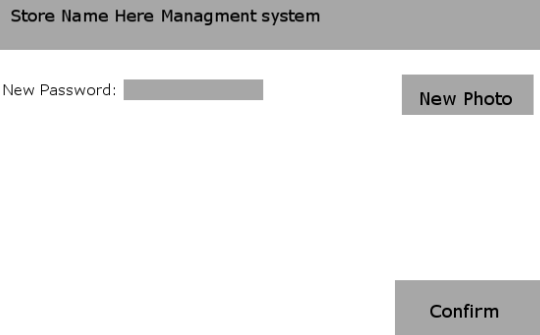Description: As a User (Manager or Cashier), I want to log in to the system.
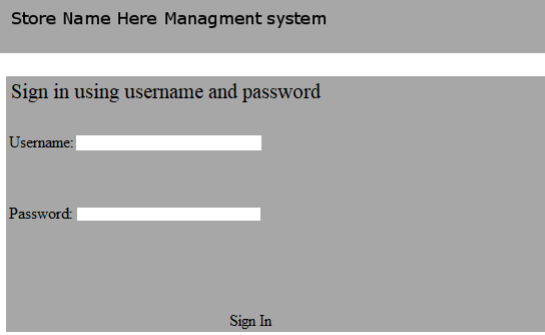
Actors: Manager, Cashier

Step 1: When the System is booted / loaded, a login screen is displayed with a Username and Password field, along with a clickable button to log in to the system. The Password field is obfuscated – i.e. is not shown in plaintext.	Store Name Here Managment system Sign in using username and password Username: _____ Password: _____ Sign In
Step 2: When a username and password are entered, the system checks them against valid usernames and passwords stored in the backend. If the credentials match a single entry, they are logged in with the appropriate role. The Manager's 'Main Screen' view is displayed to the right, Cashier's view should only contain the 'Checkout', 'Sign Out', and 'Manage Accounts' buttons.	Store Name Here Managment system Checkout Add Product Business Report Update Existing Product Sign Out Manage Accounts

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Use Case 2: Password Change

Description: As a User (Manager or Cashier), I want to add a new product into the system's database
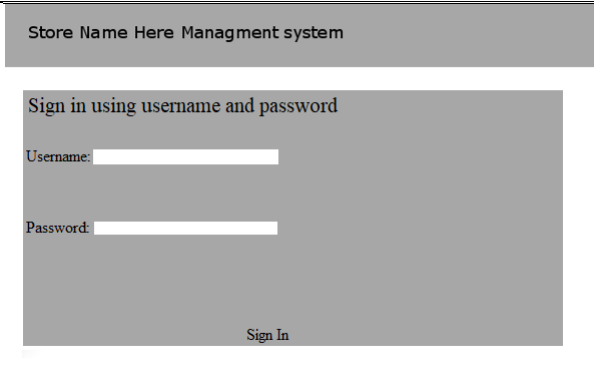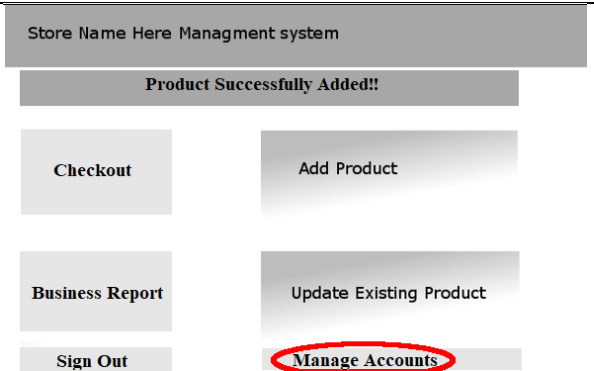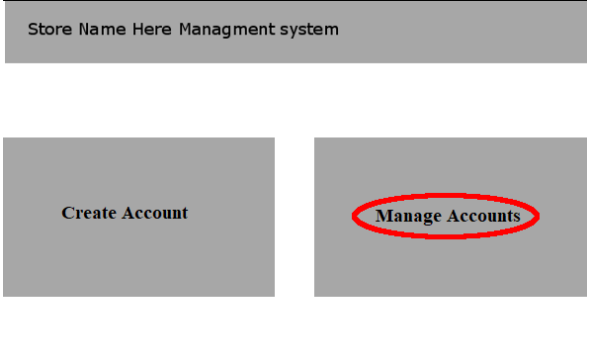
Actors: Manager, Cashier

Step 1: A User should enter their Username and Password to login to the account on which the password is to be changed.	Store Name Here Managment system Sign in using username and password Username: Password: Sign In
Step 2: Upon successful login, the User clicks 'Manage Accounts'	Store Name Here Managment system **Product Successfully Added!!** Checkout Add Product Business Report Update Existing Product Sign Out Manage Accounts
Step 3: A Manager would press 'Manage Accounts' on the following screen, a Cashier would not see this screen.	Store Name Here Managment system Create Account Manage Accounts
Step 4-1: A Cashier sees a screen with only a field for managing their own account's password.	Store Name Here Managment system New Password: New Photo Confirm

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Step 4-2: A Manager sees a screen with a list of all accounts, with the ability to manage them. The manager does not see any passwords. Only a field for them to enter a new password for themselves. A manager may not remove themselves.	Store Name Here Managment system New Password: [ ] New Photo User / Role / Created User 1 / Cashier / 3/5/2016 User 2 / Manager / 4/3/2004 Confirm
Step 5: The User then 'Confirm's their changes. A password field left blank is an unchanged password.	Store Name Here Managment system New Password: [ ] New Photo User / Role / Created User 1 / Cashier / 3/5/2016 User 2 / Manager / 4/3/2004 Confirm
Step 6: The User is returned to the main screen when all edited accounts have been updated in the system.	Store Name Here Managment system **Product Successfully Added!!** Checkout Add Product Business Report Update Existing Product Sign Out Manage Accounts

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Use Case 3: New Photo

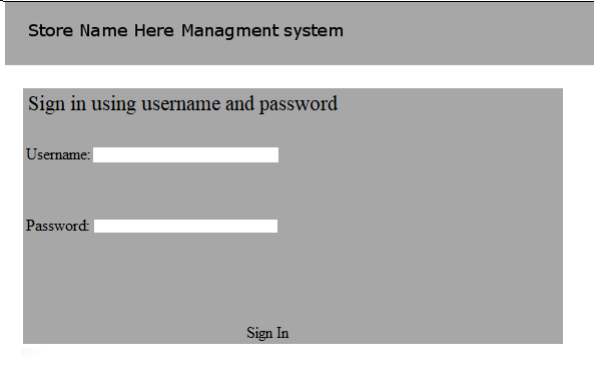Description: As a User, I want to change my display/profile photo.

Actors: Manager, Cashier
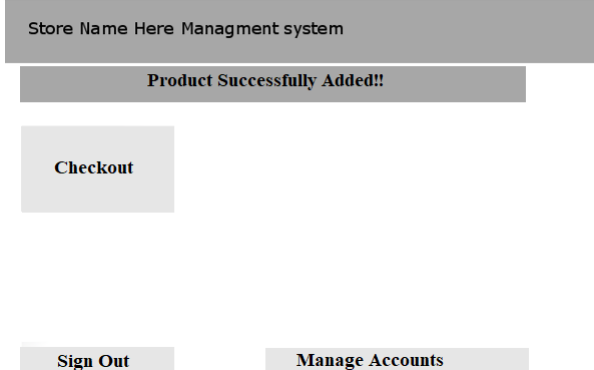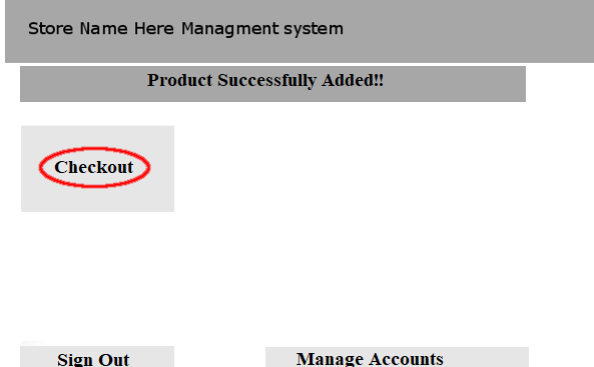
Step 1: A User should enter their Username and Password to login to the account on which the photo is to be changed.	Store Name Here Managment system Sign in using username and password Username: Password: Sign In
Step 2: Upon successful login, the User clicks 'Manage Accounts'	Store Name Here Managment system **Product Successfully Added!!** Checkout Add Product Business Report Update Existing Product Sign Out Manage Accounts
Step 3: A Manager would press 'Manage Accounts' on the following screen, a Cashier would not see this screen.	Store Name Here Managment system Create Account Manage Accounts

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Step 4-1: A Cashier now presses 'New Photo' on this screen.	**Store Name Here Managment system** New Password: [____] (New Photo) Confirm
Step 4-2: A Manager would press the same 'New Photo' button.	**Store Name Here Managment system** New Password: [____] (New Photo) | User	Role	Created
User 1	Cashier	3/5/2016
User 2	Manager	4/3/2004	 Confirm
Step 5: The following screen depends on the implementation of the system: If we are working on an embedded system, this function is only available on systems with a camera. And as such the view of the Camera would be loaded, allowing the user to touch the screen to take a photo. If this program is running as an application, then we simply browse for an image file. A size and filetype limit should be imposed on the file selected.	
Step 6: The image is processed and resized to appropriate dimensions to be displayed as a profile photo, stored within a database of profile photos, each entry linked to a User.	

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Use Case 4: Checkout

Description: As a Cashier, I want to check out a customer's order.
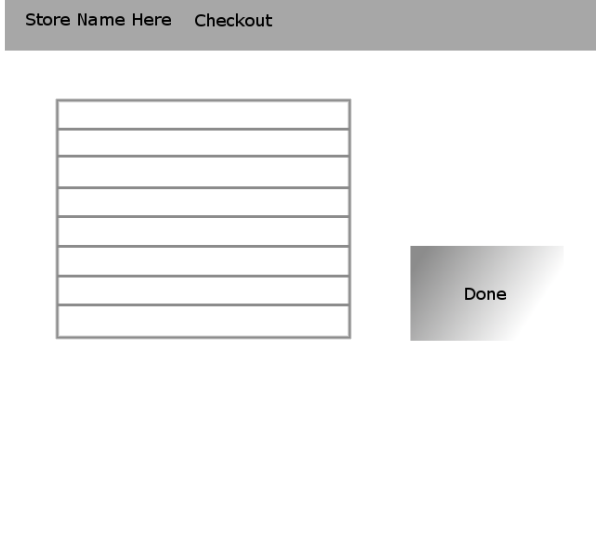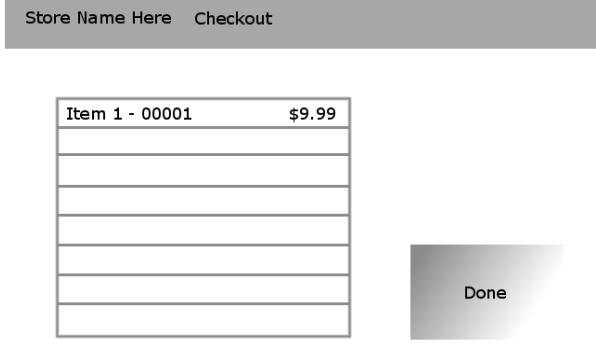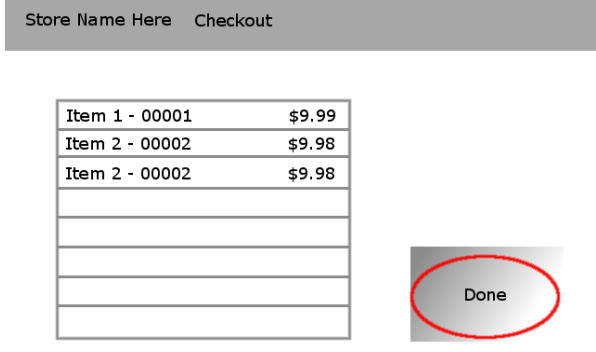
Actors: Cashier
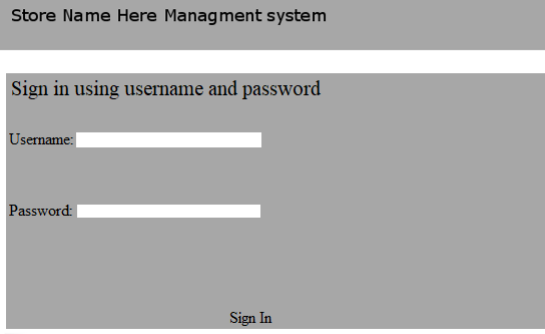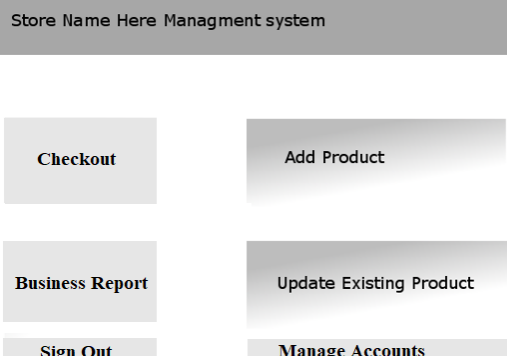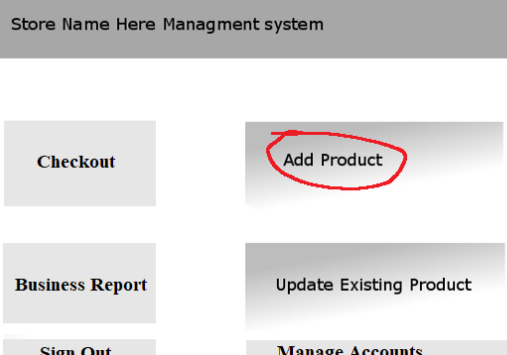
Step 1: A Cashier should enter their Username and Password to login to their account.	Store Name Here Managment system Sign in using username and password Username: [_____] Password: [_____] Sign In
Step 2: The System then displays the main screen.	Store Name Here Managment system **Product Successfully Added!!** **Checkout** **Sign Out** **Manage Accounts**
Step 3: The Cashier will press 'Checkout', taking the user to a separate, checkout screen.	Store Name Here Managment system **Product Successfully Added!!** **Checkout** **Sign Out** **Manage Accounts**

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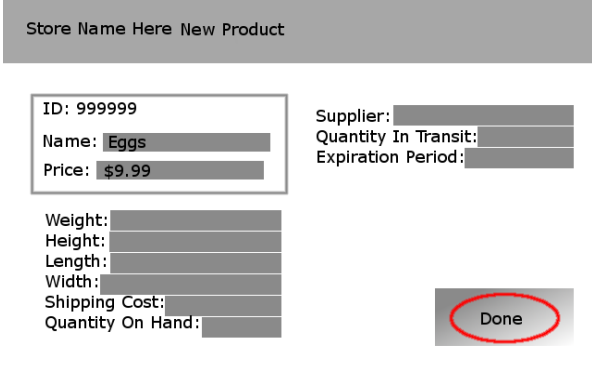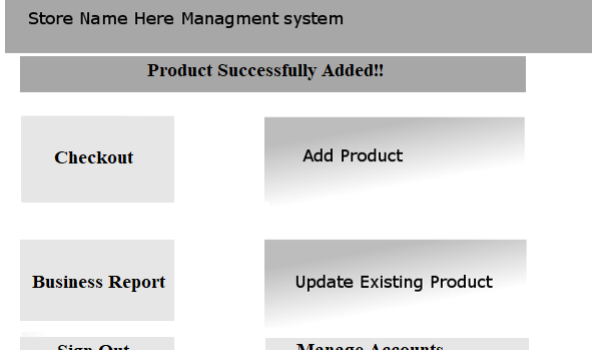
Step 4: This step is dependent on the type of system being implemented. On an embedded system, once on the checkout screen, the Cashier scans barcodes on the external scanner, sending info to the embedded system. If the system is an application, an interface with a USB barcode reader could be implemented. Alternatively, a manual barcode entry could be added (in either version) and supplement/replace the scanner. This allows the Cashier to, by hand, input an item whose barcode is un-readable or missing (following a product lookup).	Store Name Here Checkout Done
Step 5: For each item in the order, Step 4 is repeated.	Store Name Here Checkout Item 1 - 00001 $9.99 Done
Step 6: Once the Cashier has scanned / input every item in the order, the Cashier should press 'Done'. The order is added to the Order Database for storage and further processing (namely financial.)	Store Name Here Checkout Item 1 - 00001 $9.99 Item 2 - 00002 $9.98 Item 2 - 00002 $9.98 Done
Step 7: Once processing is complete and a financial transaction has occurred (if needed) the Cashier is returned to the main screen. If the system is embedded, a receipt would be printed.	RECEIPT Lorem 23,89 Ipsum 33,50 Dolor Sit 5,99 Amet 42,99 TOTAL:106,37

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Use Case 5: Add new product to system database

Description: As a manager, I want to add a new product into the system's database

Actors: Manager
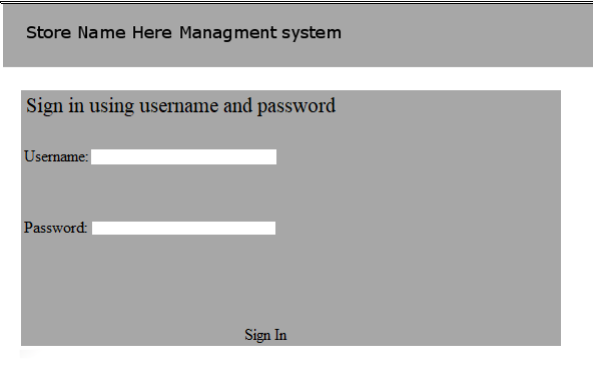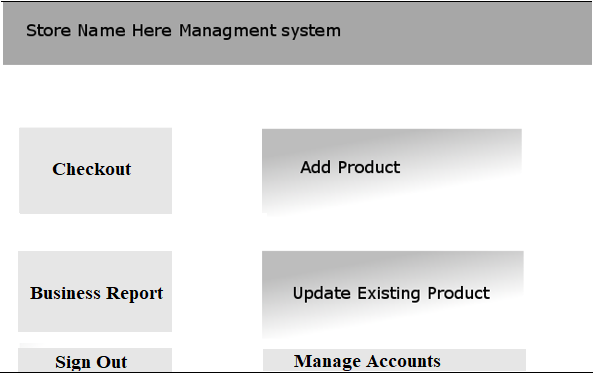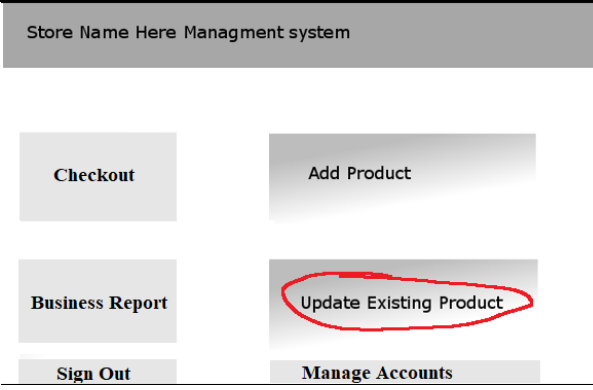
Step 1: Login in as Manager	Store Name Here Managment system Sign in using username and password Username: Password: Sign In
Step 2: Display the Manager Main Screen	Store Name Here Managment system Checkout Add Product Business Report Update Existing Product Sign Out Manage Accounts
Step 3: User presses 'Add Product'	Store Name Here Managment system Checkout Add Product Business Report Update Existing Product Sign Out Manage Accounts
Step 4: A new display appears with text fields for all configurable fields of an item – ID is automatically filled in to avoid conflicts, Price and Name are the only mandatory fields	Store Name Here New Product ID: 999999 Name: Price: Weight: Height: Length: Width: Shipping Cost: Quantity On Hand: Done

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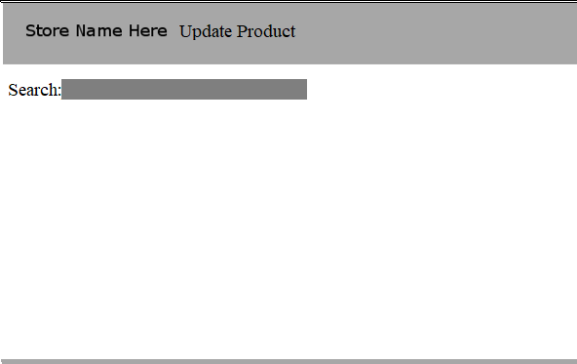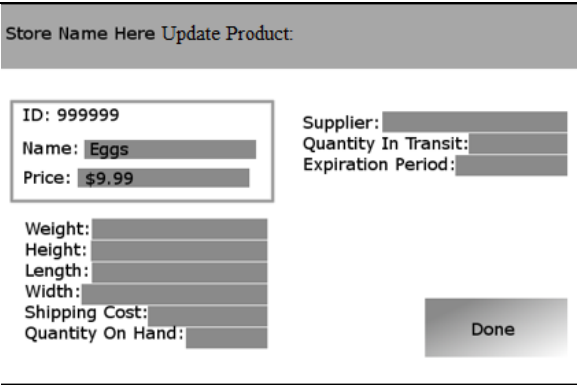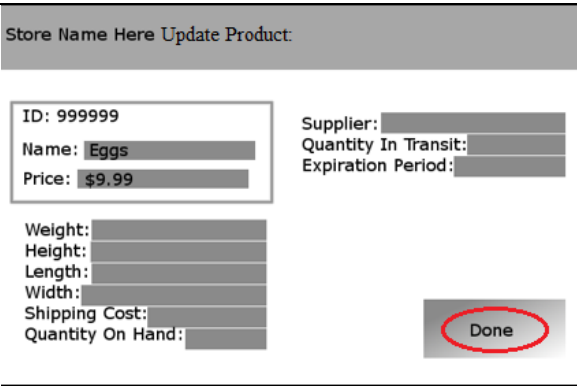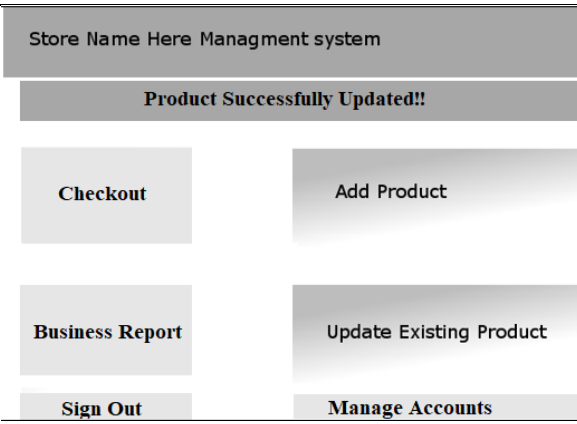
Step 5: User enters all relevant information on the new product	Store Name Here New Product ID: 999999 Name: Eggs Price: $9.99 Supplier: Quantity In Transit: Expiration Period: Weight: Height: Length: Width: Shipping Cost: Quantity On Hand: Done
Step 6: User presses 'Done'	Store Name Here New Product ID: 999999 Name: Eggs Price: $9.99 Supplier: Quantity In Transit: Expiration Period: Weight: Height: Length: Width: Shipping Cost: Quantity On Hand: Done
Step 7: The new item is added to the system, returning the user to the main screen with a success message	Store Name Here Managment system **Product Successfully Added!!** Checkout Add Product Business Report Update Existing Product Sign Out Manage Accounts

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Use Case 6: Update current product in system database

Description: As a manager, I want to update a current product in the system's database

Actors: Manager

Step 1: Sign in as a manager	
Step 2: Display the Manager Main Screen	
Step 3: User presses 'Update Existing Product'	

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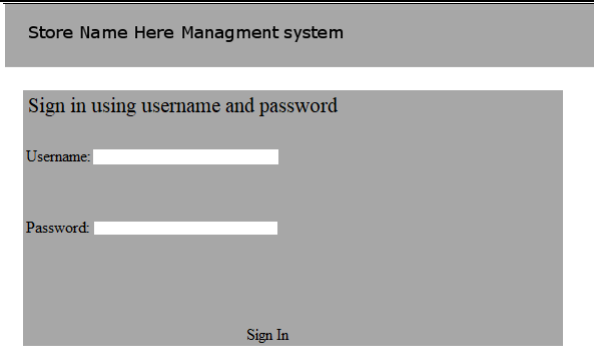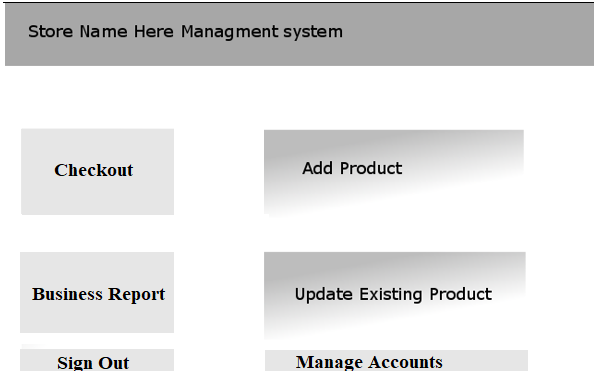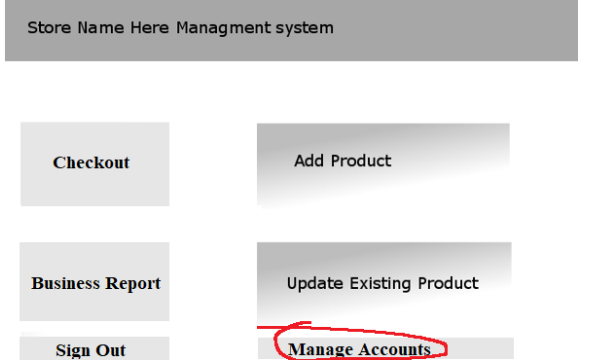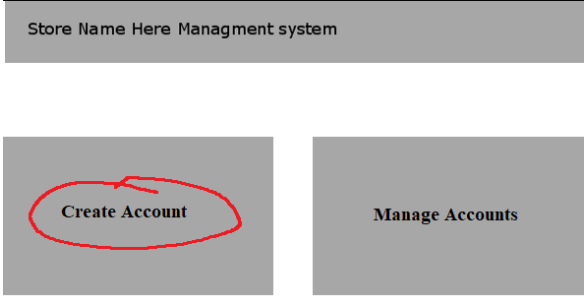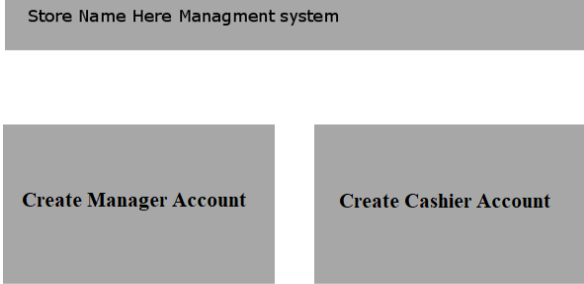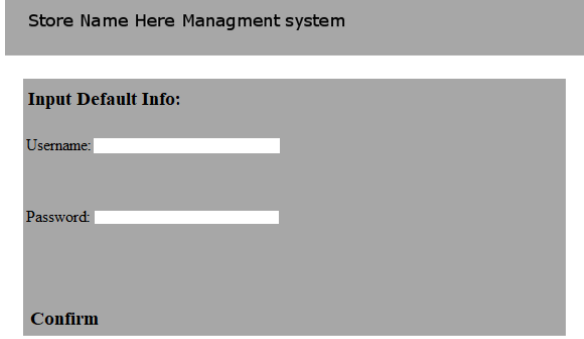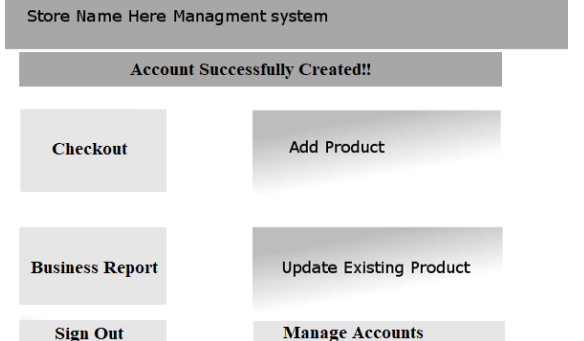|	
Step 4: A new display appears with a search bar asking the name or barcode number of product that is being updated.	Store Name Here Update Product Search:
Step 5: User updates information that needs to be changed for product	Store Name Here Update Product: ID: 999999 Supplier: Name: Eggs Quantity In Transit: Price: $9.99 Expiration Period: Weight: Height: Length: Width: Shipping Cost: Done Quantity On Hand:
Step 6: User presses 'Done' to save information	Store Name Here Update Product: ID: 999999 Supplier: Name: Eggs Quantity In Transit: Price: $9.99 Expiration Period: Weight: Height: Length: Width: Shipping Cost: Quantity On Hand: Done
Step 7: The product is updated within the system. The user is then sent to main menu with a message saying product update was successful.	Store Name Here Managment system Product Successfully Updated!! Checkout Add Product Business Report Update Existing Product Sign Out Manage Accounts

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Use Case 7: Create new user with default password

Description: As a manager, I want to create a new user, assign role (e.g. manager or cashier), generate a default password for a new user

Actors: Manager
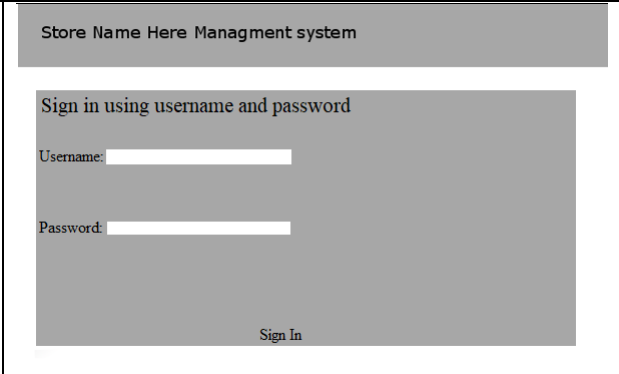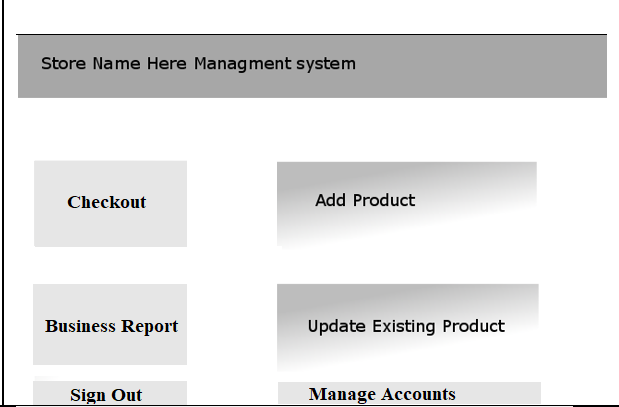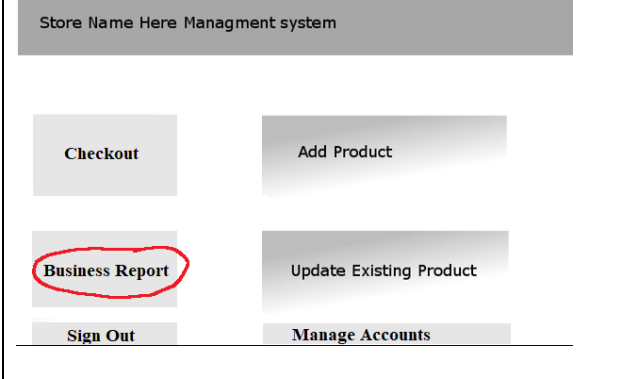
Step 1: Sign in as a manager	Store Name Here Managment system Sign in using username and password Username: Password: Sign In
Step 2: Display the Manager Main Screen	Store Name Here Managment system Checkout Add Product Business Report Update Existing Product Sign Out Manage Accounts
Step 3: User presses "Manage Accounts"	Store Name Here Managment system Checkout Add Product Business Report Update Existing Product Sign Out Manage Accounts

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Step 4: A new display appears with two options: Change account settings, Create new Account. Select Create new account	Store Name Here Managment system Create Account Manage Accounts
Step 5: Choose which account to create, Cashier or Manager	Store Name Here Managment system Create Manager Account Create Cashier Account
Step 6: Input default username and password	Store Name Here Managment system Input Default Info: Username: Password: Confirm
Step 7: The new user is added to the system, returning the user to the main screen with a success message	Store Name Here Managment system Account Successfully Created!! Checkout Add Product Business Report Update Existing Product Sign Out Manage Accounts

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Use Case 8: View and Sort Business Report

Description: As a manager, I want to view and sort the business report: e.g., what products are sold, how many units, how much revenue…

Actors: Manager

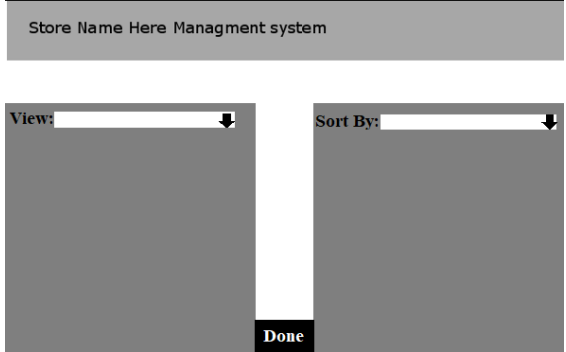| Step 1: Sign in as a manager	
Step 2: Display the Manager Main Screen	
Step 3: User presses "Business Report"	

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Step 4: Business Report Display appears with scroll down bars to select what to view and how to sort report by	Store Name Here Managment system View: ▼ Sort By: ▼ Done
Step 5: Click Done button to return to main screen	Store Name Here Managment system View: ▼ Sort By: ▼ Done