

Iteration 3 Implementation and Testing
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COMP3700

Create Server Socket

```
Server Socket created!  
Waiting for a new connection...  
|
```

Product View via Proxy Access to Remote Server

Product View via Proxy Access to Remote Server

Load Product Save Product Exit

Product ID:

Product Name:

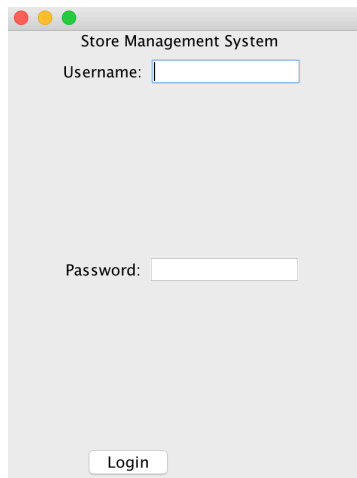
Price: Quantity:

Add or update products from remote access.

Server Timeout

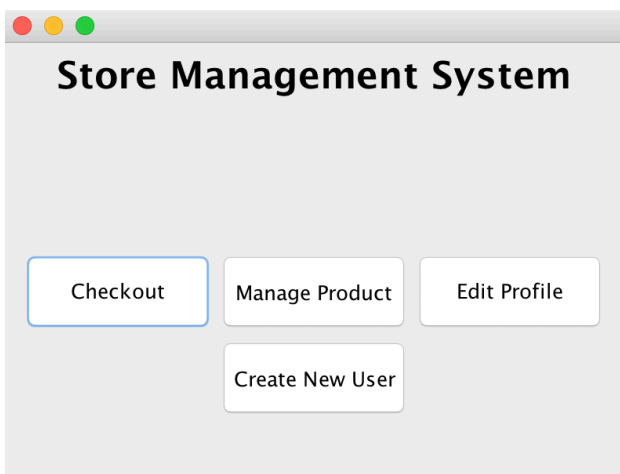
```
Connection Socket Created  
Waiting for Connection  
Timeout Occurred  
Waiting for Connection  
|
```

1. As a user, I want to log into the system. The login page is shown.



A screenshot of a web application window titled "Store Management System". The window has a light gray background and a standard macOS-style title bar with red, yellow, and green window control buttons. Below the title bar, there are two input fields: "Username:" followed by a text box, and "Password:" followed by a text box. At the bottom of the window, there is a "Login" button.

The user enters their username and password and clicks "Login". The home page comes up.



A screenshot of the "Store Management System" home page. The window has a light gray background and a title bar with red, yellow, and green window control buttons. The title "Store Management System" is displayed in a large, bold, black font at the top. Below the title, there are four buttons arranged in a grid: "Checkout", "Manage Product", "Edit Profile", and "Create New User". The "Checkout" button is highlighted with a blue border.

2. As a user, I want to change my login password. Repeat use case 1. Select The edit profile option in the home screen. The edit profile page comes up.

User View

Save User

User ID:

Username:

Password:

DisplayName:

To update password, the user must provide their userID in the first text box. Then type in a new password in the password text box and press “Save User” to update it in the database.

Database before and after:

Table:

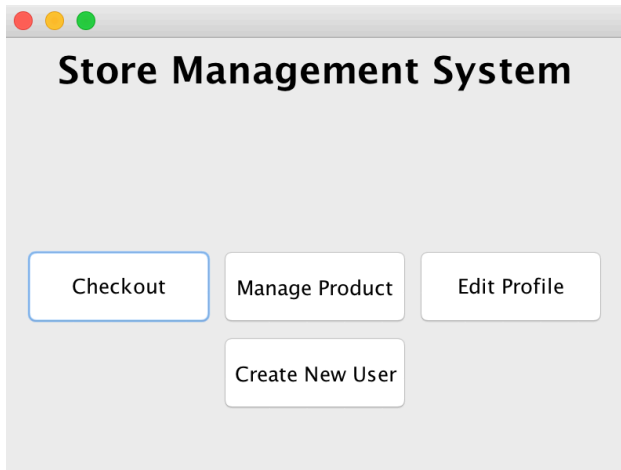
	UserID	Username	Password	DisplayName	isManager
	Filter	Filter	Filter	Filter	Filter
1	1234	mml0017	wareagle	Mike Jordan	True
2	5678	rnw0012	rolltide	Russ	False
3	11111	toonwin	t00nw1n	Toon	False
4	4444	phong1234	phong	Leonard Phong	false

Updating password of rnw0012

Table:

	UserID	Username	Password	DisplayName	isManager
	Filter	Filter	Filter	Filter	Filter
1	1234	mml0017	wareagle	Mike Jordan	True
2	5678	rnw0012	gotigers	Russ	False
3	11111	toonwin	t00nw1n	Toon	False
4	4444	phong1234	phong	Leonard Phong	false

3. As a user, I want to change my profile photo. The user does use case 1. The home page comes up.



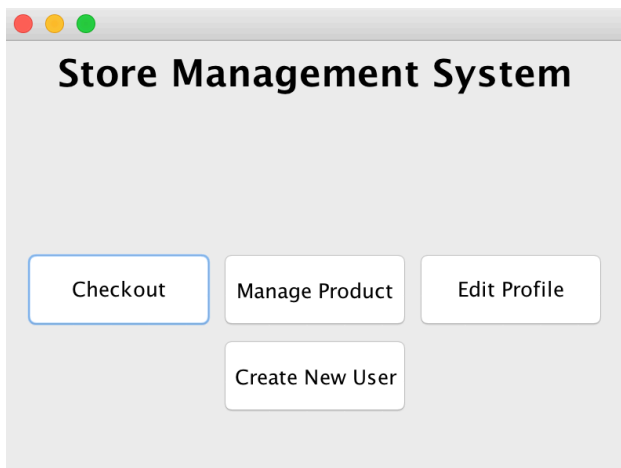
The user selects the edit profile button. The edit profile screen comes up.

A screenshot of a web application window titled "User View". The window has a light gray background and a title bar with three colored buttons (red, yellow, green). Below the title, there is a "Save User" button. Below the button, there are four input fields: "User ID:", "Username:", "Password:", and "DisplayName:". The "Save User" button is highlighted with a blue border.

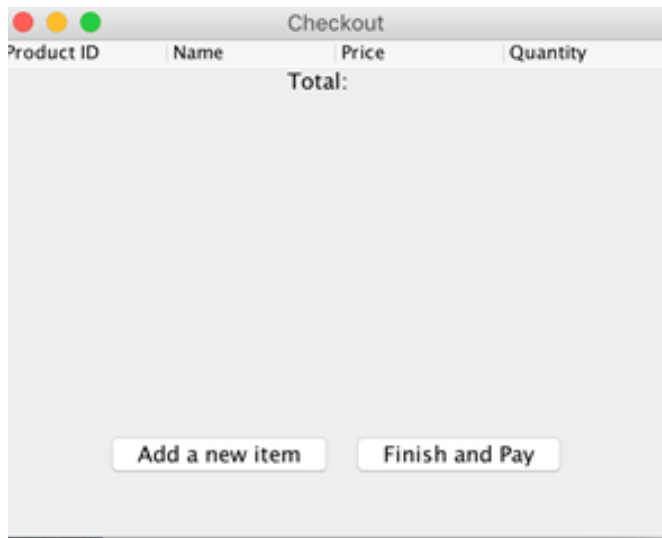
The user selects the update picture option. The update picture screen comes up.

The user enters the location and name of the file that is the picture they want to upload. The user is returned to the home screen with their picture updated.

4. As a cashier, I want to checkout an order. The user repeats use case 1. The home screen appears.



The user selects the checkout option. The checkout screen appears.

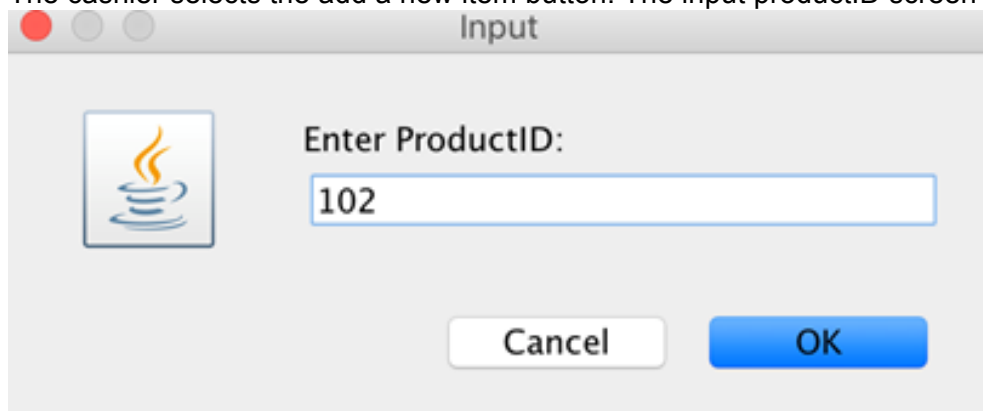


A window titled "Checkout" with a table and two buttons. The table has columns: Product ID, Name, Price, and Quantity. Below the table is a "Total:" label. At the bottom are two buttons: "Add a new item" and "Finish and Pay".

Product ID	Name	Price	Quantity
Total:			

Add a new item Finish and Pay

The cashier selects the add a new item button. The input productID screen appears.



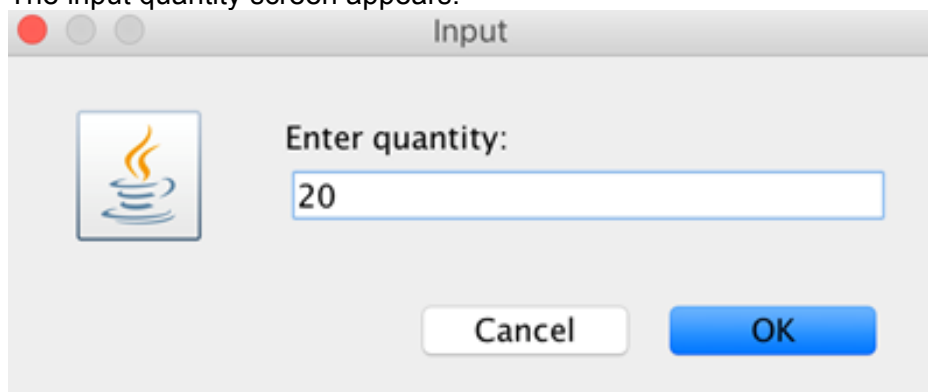
A window titled "Input" with a coffee cup icon, a label "Enter ProductID:", a text input field containing "102", and two buttons: "Cancel" and "OK".

Enter ProductID:

102

Cancel OK

The cashier inputs the productID of the product they want to checkout and selects ok. The input quantity screen appears.



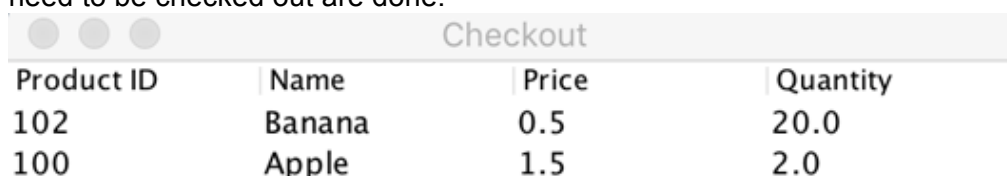
A window titled "Input" with a coffee cup icon, a label "Enter quantity:", a text input field containing "20", and two buttons: "Cancel" and "OK".

Enter quantity:

20

Cancel OK

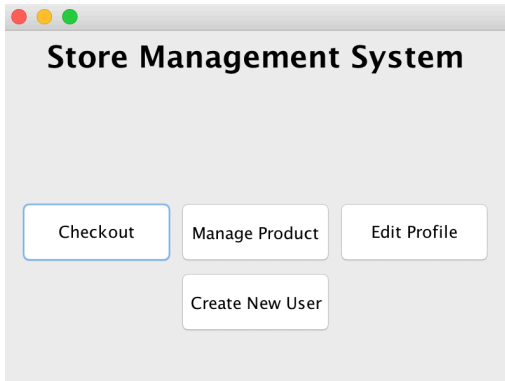
The cashier inputs the quantity of the product they want to check out and selects ok. The checkout screen appears. The cashier repeats these steps until all the products that need to be checked out are done.



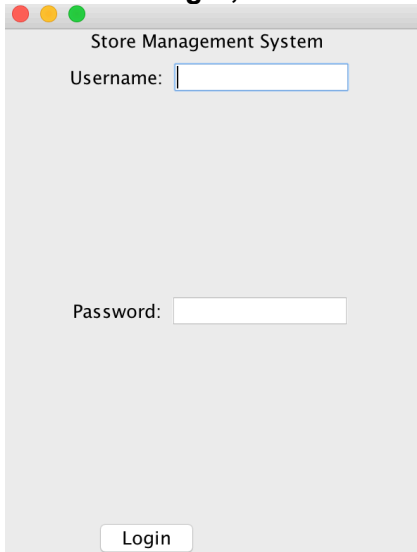
A window titled "Checkout" showing a table with product details.

Product ID	Name	Price	Quantity
102	Banana	0.5	20.0
100	Apple	1.5	2.0

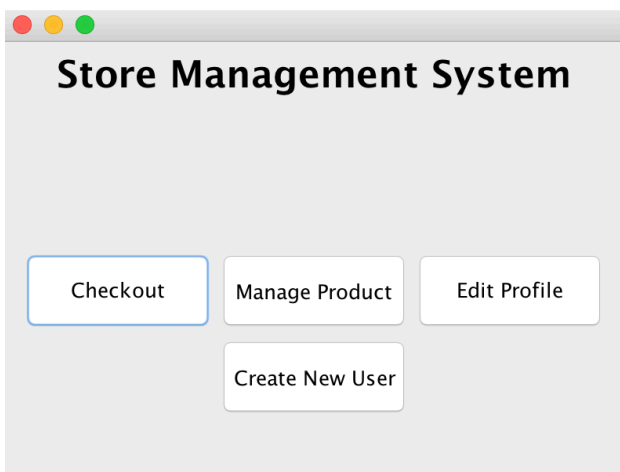
The user selects the checkout button and is returned to the home screen.



5. As a manager, I want to add a new product to the System's database



Login to the Store management system using Manager account and password. The Store homepage will be shown next.



Click Manage Product Button. The Product View page will be shown next.

Product View

Load Product Save Product

Product ID:

Product Name:

Price: Quantity:

Enter product data and press “Save Product” button to add it in the system.

Table: Product New Record De

	ProductID	ProductName	Quantity	Price
	Filter	Filter	Filter	Filter
1	100	Apple	50	1.5
2	101	Orange	8	1.65
3	102	Banana	35	0.5

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

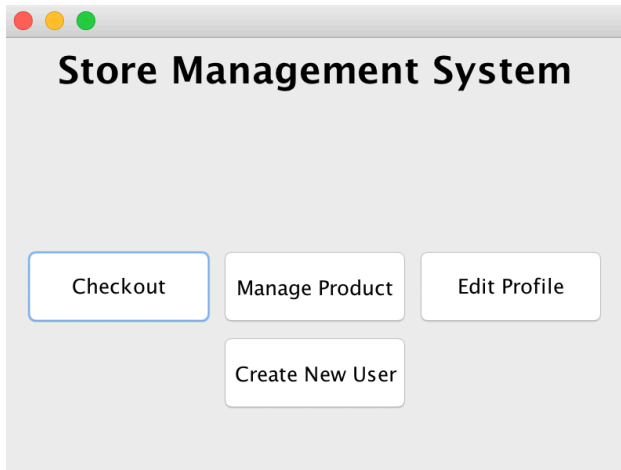
Store Management System

Username:

Password:

Login

Login to the Store management system using Manager account and password. The store homepage will be displayed.



Click Manage Product Button. The product view page will be displayed.

A screenshot of a web application window titled "Product View". The window has a light gray background and a title bar with three colored buttons (red, yellow, green). Below the title, there are two buttons: "Load Product" and "Save Product". Below these buttons, there are four input fields: "Product ID:" with the value "100", "Product Name:" with the value "Apple", "Price:" with the value "1.5", and "Quantity:" with the value "50".

Enter product data and press "Save Product" button to update it in the system.

Database before and after Updated Apple quantity:





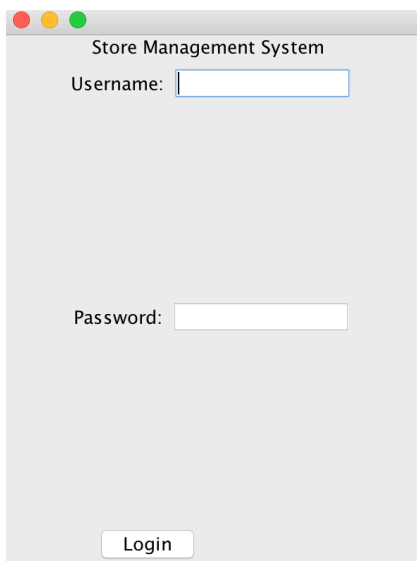
Table:  Product   				
	ProductID	ProductName	Quantity	Price
	Filter	Filter	Filter	Filter
1	100	Apple	4	1.5
2	101	Orange	8	1.65
3	102	Banana	35	0.5

Table: Product New Record De

	ProductID	ProductName	Quantity	Price
	Filter	Filter	Filter	Filter
1	100	Apple	50	1.5
2	101	Orange	8	1.65
3	102	Banana	35	0.5

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



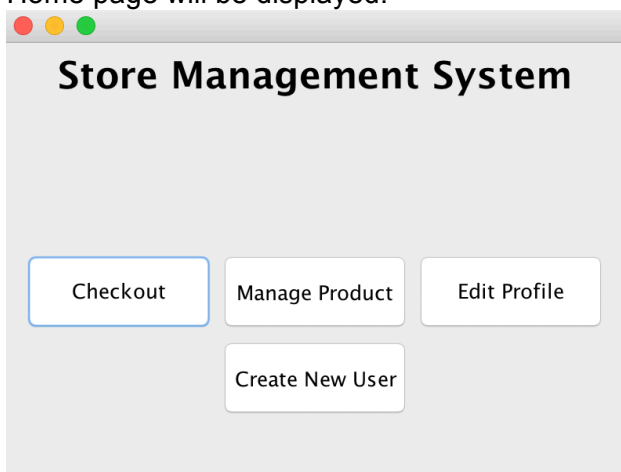
Store Management System

Username:

Password:

Login

Login to the Store management system using Manager account and password. The Home page will be displayed.



Store Management System

Checkout Manage Product Edit Profile

Create New User

Click 'Create New User' Button. The Create New User page will be displayed.

User View

Save User

User ID:

Username:

Password:

DisplayName:

IsManager:

Enter user Data. Default password is shown. Enter 'True' in the 'isManager' text box to add a new Manager to the system. Enter 'False' to add a Cashier.

Database before and After adding Leonard Phong.

Table: User

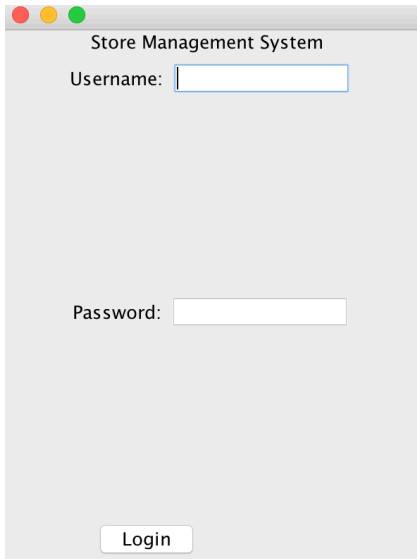
Select a table to browse data

	UserID	Username	Password	DisplayName	isManager
	Filter	Filter	Filter	Filter	Filter
1	1234	mml0017	wareagle	Mike Jordan	True
2	5678	rnw0012	rolltide	Russ	False
3	11111	toonwin	t00nw1n	Toon	False

Table: User

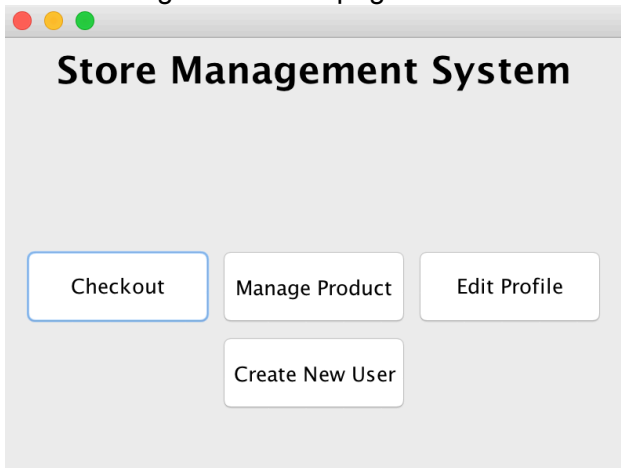
	UserID	Username	Password	DisplayName	isManager
	Filter	Filter	Filter	Filter	Filter
1	1234	mml0017	wareagle	Mike Jordan	True
2	5678	rnw0012	rolltide	Russ	False
3	11111	toonwin	t00nw1n	Toon	False
4	4444	phong1234	phong	Leonard Phong	false

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...



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Login to the Store management system using Manager account and password. The Store management homepage is shown.



A screenshot of the "Store Management System" homepage. The window has a light gray background and a standard macOS-style title bar. The title "Store Management System" is displayed in a large, bold, black font at the top. Below the title, there are four buttons arranged in a grid: "Checkout", "Manage Product", "Edit Profile", and "Create New User". The "Checkout" button is highlighted with a blue border.

Click 'View Reports' Button. Business reports page will be displayed.