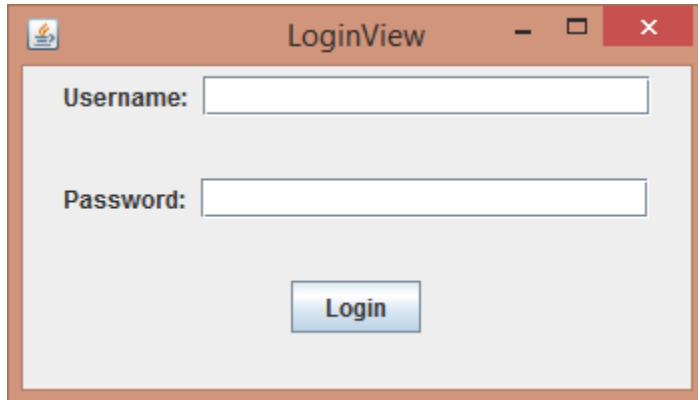


Use Case 1: Login

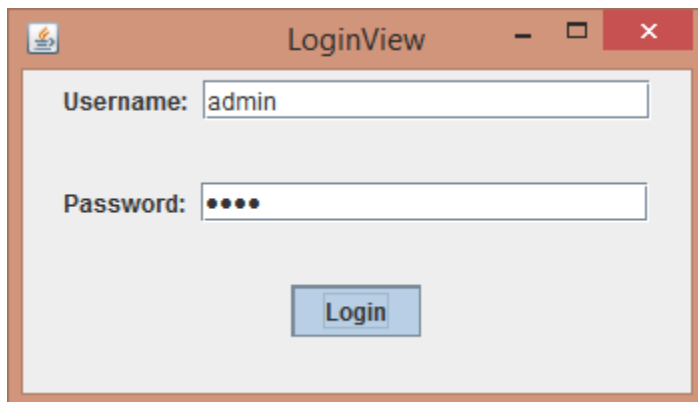
As a user, I want to log into the system.

Welcome to the Store Management System!



The screenshot shows a window titled "LoginView" with a standard macOS-style title bar (red, yellow, green buttons). Inside the window, there are two text input fields. The first is labeled "Username:" and is empty. The second is labeled "Password:" and is also empty. Below these fields is a blue button with the text "Login".

To log in, type in a valid username and password and click Login. The default user in the system will have the username "admin" and password "0000."



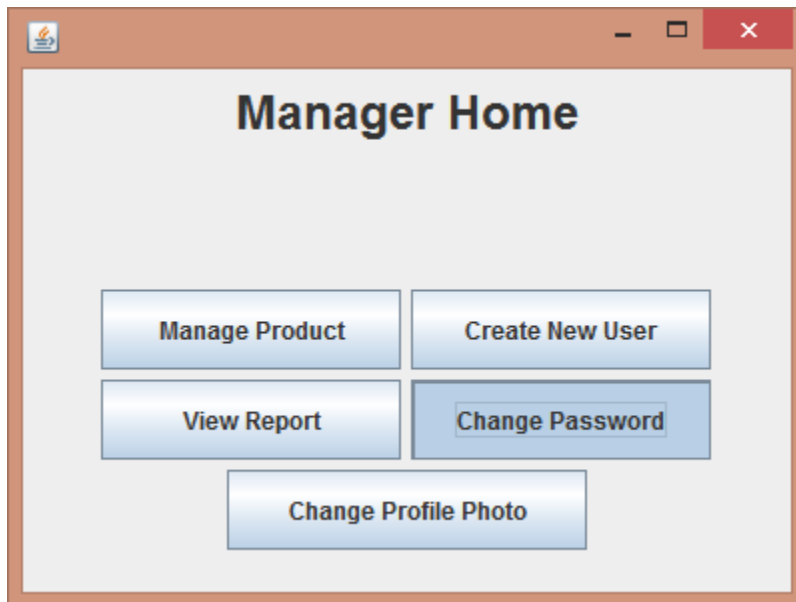
This screenshot shows the same "LoginView" window, but now the "Username:" field contains the text "admin". The "Password:" field contains four black dots, representing a masked password. The "Login" button remains visible below the fields.

After logging in, you will be brought to the Manager Main Screen.

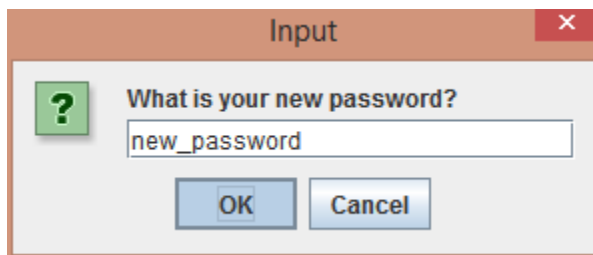
Use Case 2: Change Password

As a user, I want to change my login password.

To change your password, click “Change Password” on the Manager Main Menu. Cashiers can also change their password with the same method.



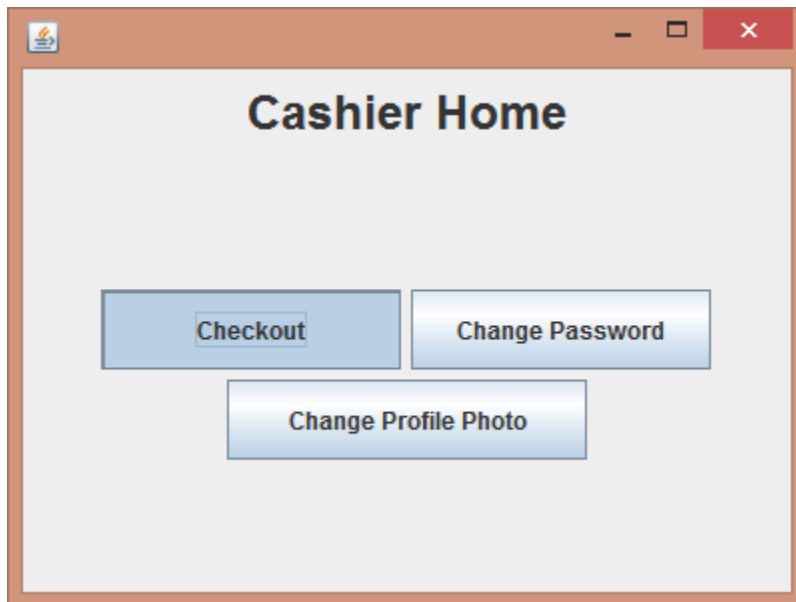
An input dialog will appear. Input your new password into the box and click OK.



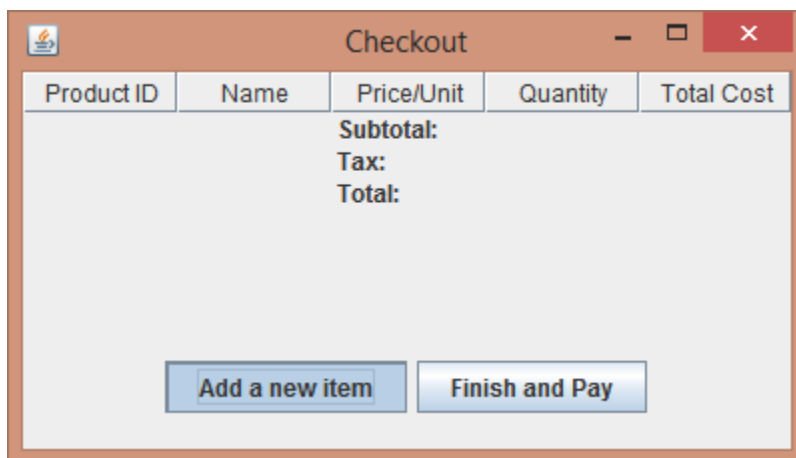
Use Case 3: Checkout

As a cashier, I want to check out an order.

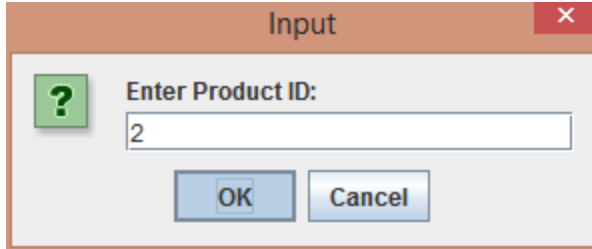
To check out an order for a customer, click “Checkout” on the Cashier Main Screen. You must be logged in as a cashier to complete this task.



This will bring you to the Checkout page where you can view the order and add items to the list. To add a new item, select “Add a new item.” This will bring up a window to input the ID of an item.

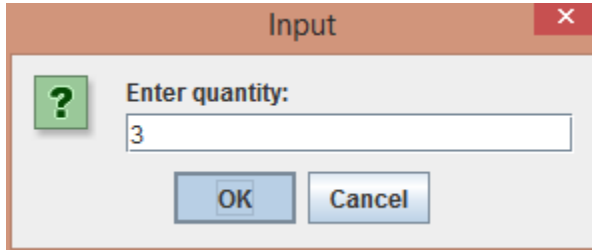


Input the ID of Milk (2) and click OK.



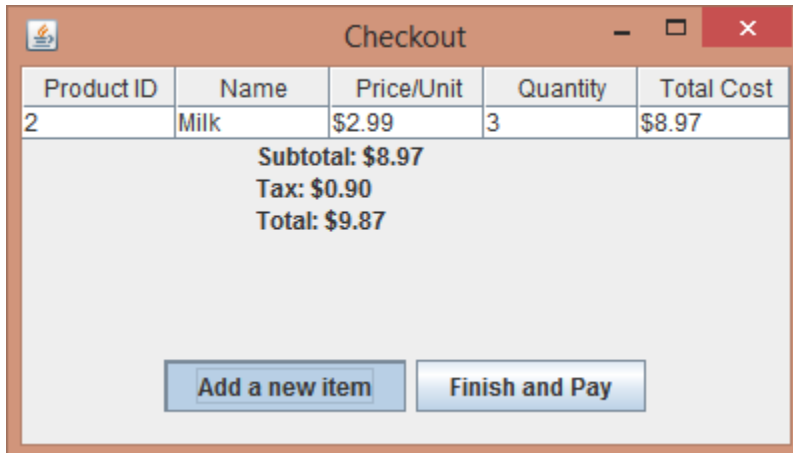
An "Input" dialog box with a red title bar and a close button. It contains a green question mark icon, the label "Enter Product ID:", a text box with the value "2", and "OK" and "Cancel" buttons.

A new text box will appear and ask you to input the desired quantity of the item that you are purchasing. Input a quantity of 3 and click OK.



An "Input" dialog box with a red title bar and a close button. It contains a green question mark icon, the label "Enter quantity:", a text box with the value "3", and "OK" and "Cancel" buttons.

You will be brought back to the main checkout screen. The screen has been updated with the ID, name, price, quantity, and total cost of your first item. Additionally, the subtotal, tax, and total are now displayed. To add to the order, select "Add a new item" once again.



A "Checkout" window with a red title bar and standard window controls. It features a table with the following data:

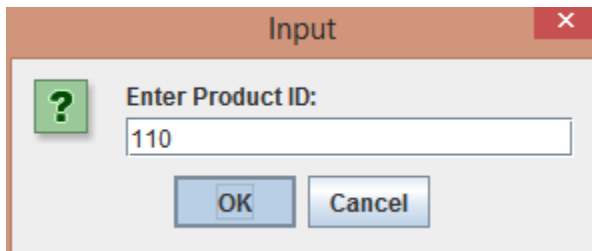
Product ID	Name	Price/Unit	Quantity	Total Cost
2	Milk	\$2.99	3	\$8.97

Below the table, the following summary is displayed:

Subtotal: \$8.97
Tax: \$0.90
Total: \$9.87

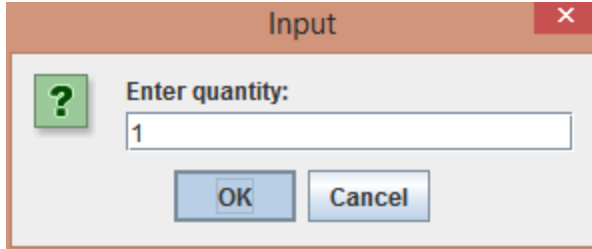
At the bottom are two buttons: "Add a new item" and "Finish and Pay".

This time, input the ID of Basketball (110) and click OK.



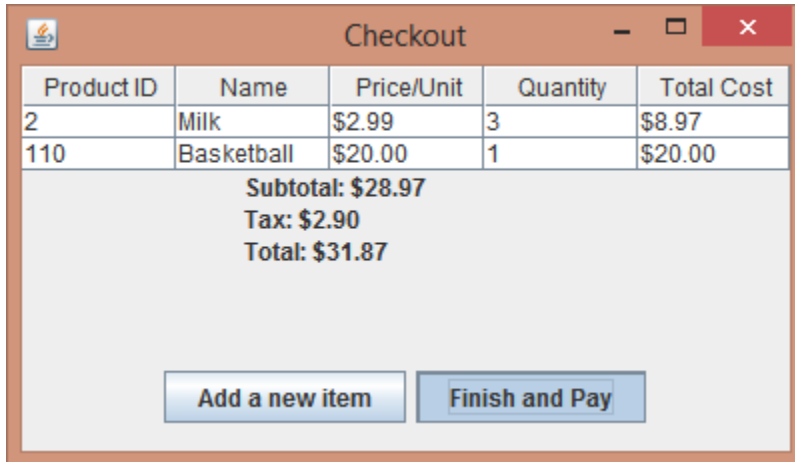
An "Input" dialog box with a red title bar and a close button. It contains a green question mark icon, the label "Enter Product ID:", a text box with the value "110", and "OK" and "Cancel" buttons.

Input a quantity of 1 and click OK.



An "Input" dialog box with a red title bar and a close button. It contains a green question mark icon, the text "Enter quantity:", a text input field with the value "1", and "OK" and "Cancel" buttons.

The main checkout screen will once again be updated. The subtotal, tax, and total values now represent the combination of the items on the screen. Now select "Finish and Pay." The next screen will prompt you to enter a payment type.



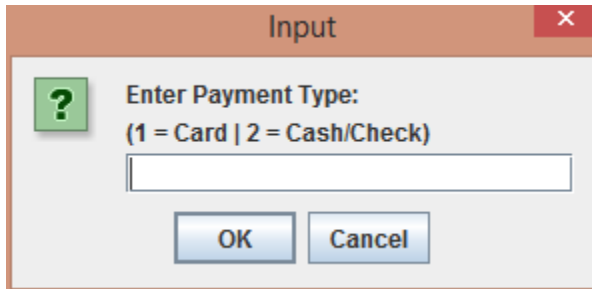
A "Checkout" window with a red title bar and standard window controls. It displays a table of items, a summary of costs, and two buttons at the bottom.

Product ID	Name	Price/Unit	Quantity	Total Cost
2	Milk	\$2.99	3	\$8.97
110	Basketball	\$20.00	1	\$20.00

Subtotal: \$28.97
Tax: \$2.90
Total: \$31.87

Buttons: "Add a new item", "Finish and Pay"

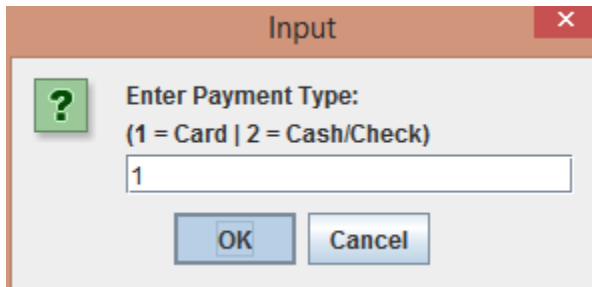
Input 1 for a card payment or 2 for a cash/check payment and click OK.



An "Input" dialog box with a red title bar and a close button. It contains a green question mark icon, the text "Enter Payment Type:", the instruction "(1 = Card | 2 = Cash/Check)", an empty text input field, and "OK" and "Cancel" buttons.

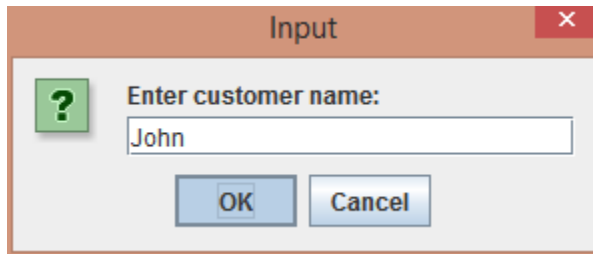
4.1) Paying with Card:

To pay with a card, input 1 and then press OK.



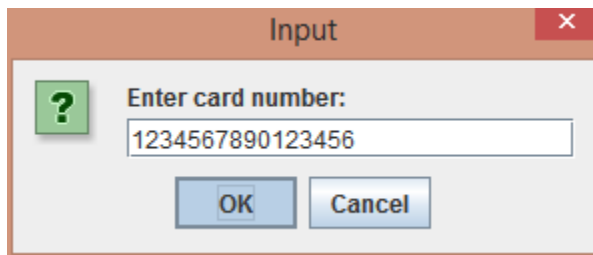
An "Input" dialog box with a red title bar and a close button. It contains a green question mark icon, the text "Enter Payment Type:", the instruction "(1 = Card | 2 = Cash/Check)", a text input field with the value "1", and "OK" and "Cancel" buttons.

You will be prompted to input a customer name. It can be up to 30 characters in length. If it exceeds the length, you will receive an error message. Enter the name "John" and click OK.



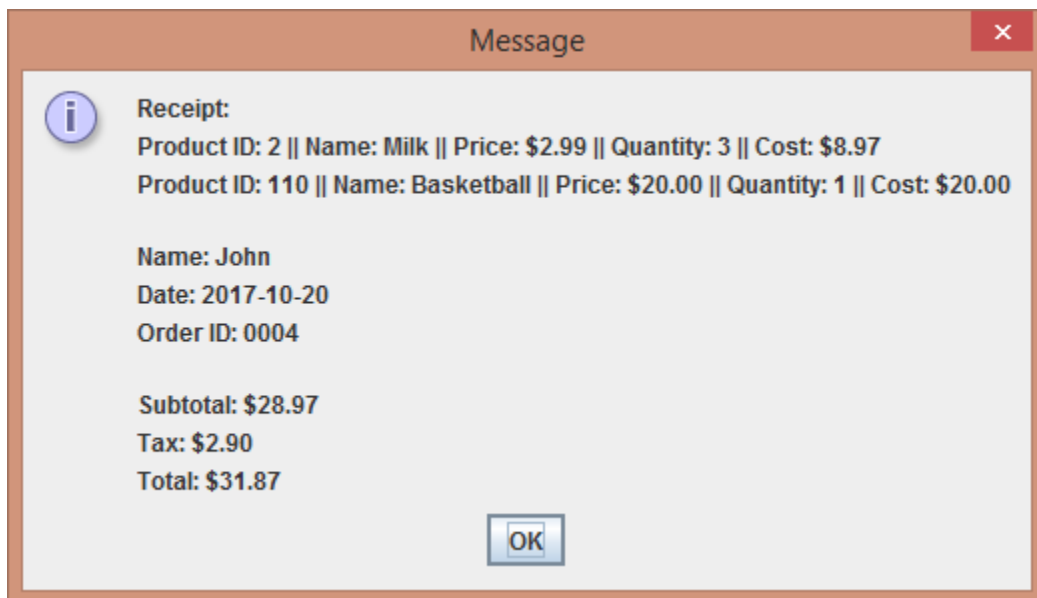
A screenshot of a Windows-style dialog box titled "Input" with a red close button in the top right corner. Inside the dialog, there is a green question mark icon on the left. To its right, the text "Enter customer name:" is displayed above a text input field. The input field contains the text "John". Below the input field are two buttons: "OK" and "Cancel".

Now you will be prompted to input a card number. The card number needs to be exactly 16 digits in length; otherwise, you will receive an error message. Enter the number "1234567890123456" and click OK.



A screenshot of a Windows-style dialog box titled "Input" with a red close button in the top right corner. Inside the dialog, there is a green question mark icon on the left. To its right, the text "Enter card number:" is displayed above a text input field. The input field contains the 16-digit number "1234567890123456". Below the input field are two buttons: "OK" and "Cancel".

You will now be able to view a receipt of your order. The receipt lists the information of all the products in the order. In addition, it will list the name of the customer, the date of the transaction, the order ID, the subtotal, the tax, and the total amount paid. Note that the date and order ID will vary per order.



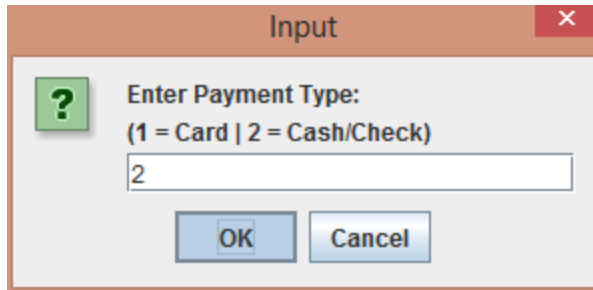
A screenshot of a Windows-style message dialog box titled "Message" with a red close button in the top right corner. Inside the dialog, there is a blue information icon on the left. To its right, the text "Receipt:" is displayed. Below this, the following information is listed:
Product ID: 2 || Name: Milk || Price: \$2.99 || Quantity: 3 || Cost: \$8.97
Product ID: 110 || Name: Basketball || Price: \$20.00 || Quantity: 1 || Cost: \$20.00

Name: John
Date: 2017-10-20
Order ID: 0004

Subtotal: \$28.97
Tax: \$2.90
Total: \$31.87
At the bottom right of the dialog is an "OK" button.

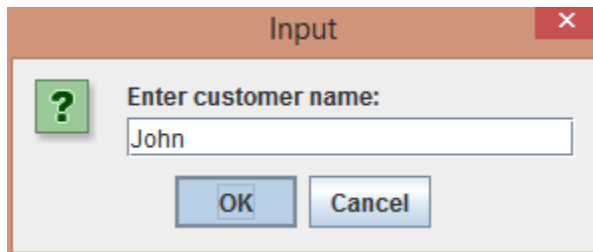
4.2) Paying with cash or check:

To pay with cash/check, input 2 and then press OK.



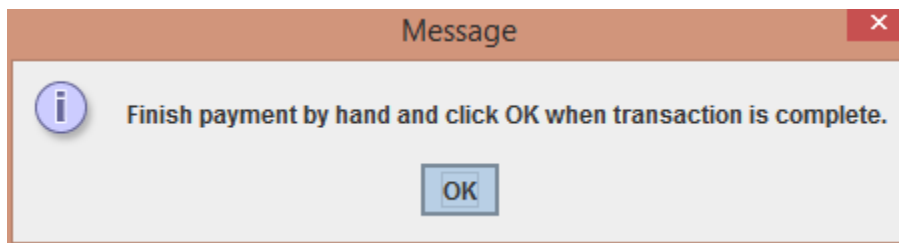
An input dialog box titled "Input" with a red close button. It contains a green question mark icon, the text "Enter Payment Type: (1 = Card | 2 = Cash/Check)", a text field containing the number "2", and "OK" and "Cancel" buttons.

You will be prompted to input a customer name. It can be up to 30 characters in length. If it exceeds the length, you will receive an error message. Enter the name "John" and click OK.



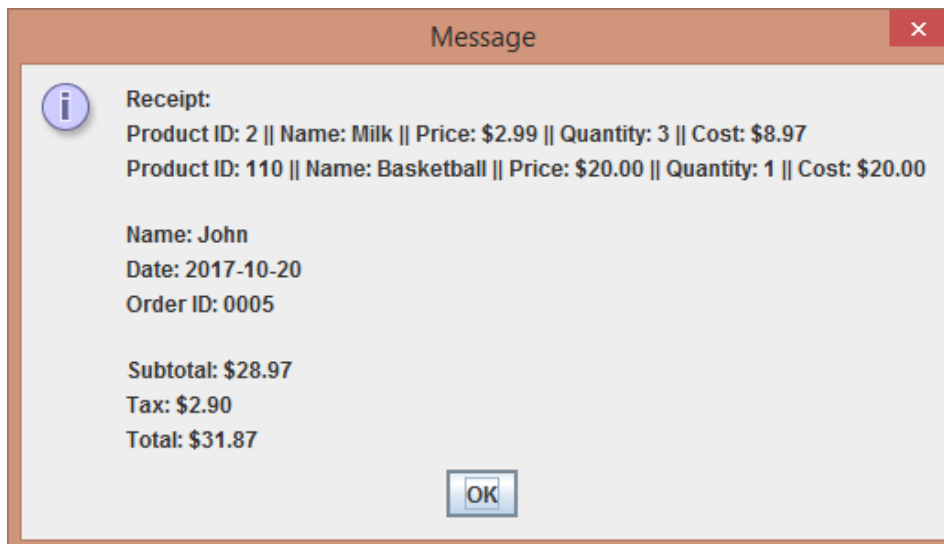
An input dialog box titled "Input" with a red close button. It contains a green question mark icon, the text "Enter customer name:", a text field containing the name "John", and "OK" and "Cancel" buttons.

A message will appear stating that the transaction is to be completed by hand. Click OK.



A message dialog box titled "Message" with a red close button. It contains an information icon, the text "Finish payment by hand and click OK when transaction is complete.", and an "OK" button.

You will now be able to view a receipt of your order. The receipt lists the information of all the products in the order. In addition, it will list the name of the customer, the date of the transaction, the order ID, the subtotal, the tax, and the total amount paid. Note that the date and order ID will vary per order.



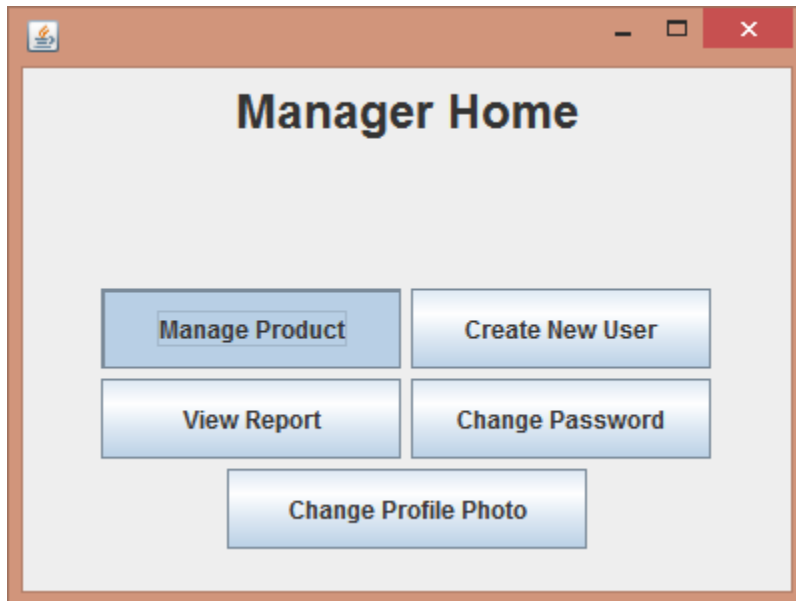
A message dialog box titled "Message" with a red close button. It contains an information icon and a receipt summary. The receipt lists two products: Milk (3 units, \$8.97) and Basketball (1 unit, \$20.00). It also lists the customer name (John), date (2017-10-20), order ID (0005), subtotal (\$28.97), tax (\$2.90), and total (\$31.87). An "OK" button is at the bottom.

Receipt:				
Product ID: 2	Name: Milk	Price: \$2.99	Quantity: 3	Cost: \$8.97
Product ID: 110	Name: Basketball	Price: \$20.00	Quantity: 1	Cost: \$20.00
Name: John				
Date: 2017-10-20				
Order ID: 0005				
Subtotal: \$28.97				
Tax: \$2.90				
Total: \$31.87				

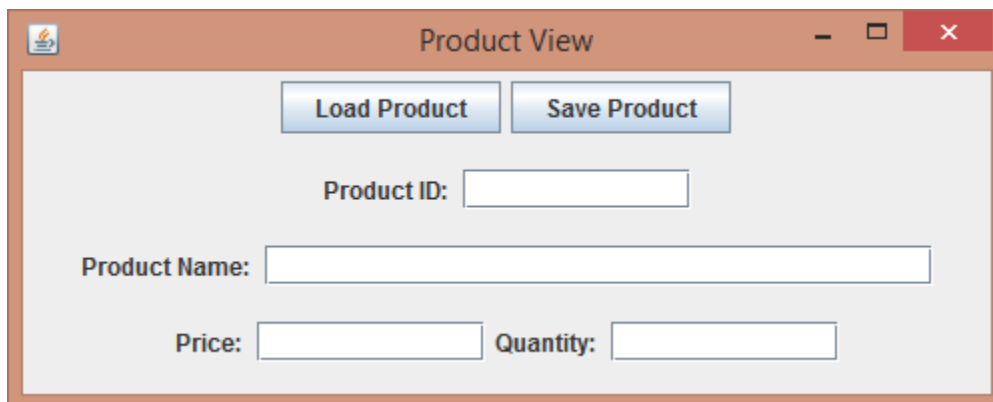
Use Case 4: Add New Product

As a manager, I want to add a new product to the database.

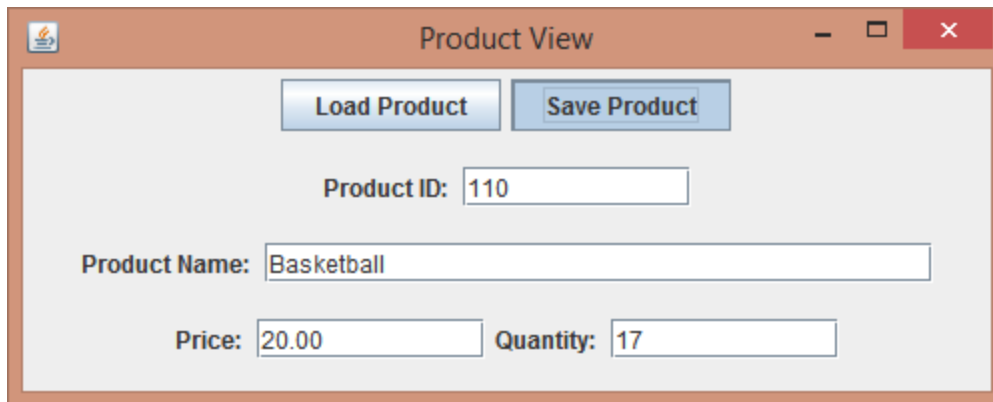
To manage products in the system, click “Manage Product.” You must be logged in as a manager to complete this task.



You will now find yourself at the Product View screen. It contains input fields for the product ID, name, price, and quantity.

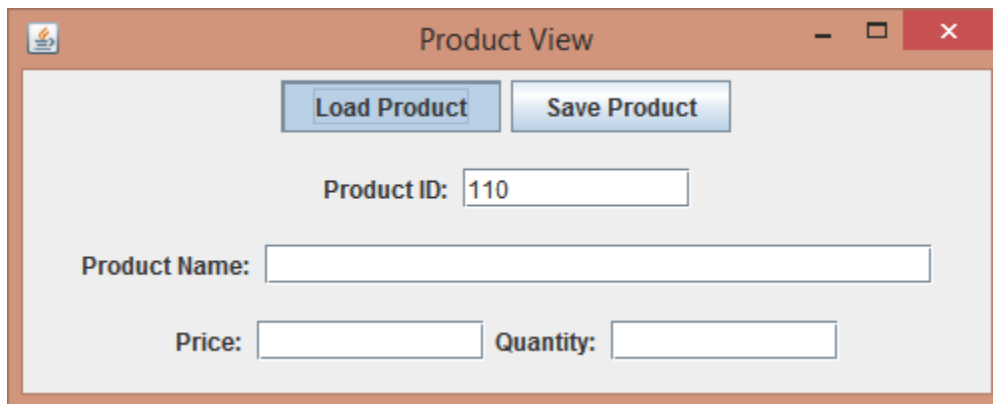
A screenshot of a web application window titled "Product View". The window has a light gray background and a brown border. At the top, the title "Product View" is centered in a bold, black font. Below the title, there are two blue buttons with white text: "Load Product" and "Save Product". Below the buttons, there are four input fields. The first is labeled "Product ID:" and is a single-line text box. The second is labeled "Product Name:" and is a single-line text box. The third is labeled "Price:" and is a single-line text box. The fourth is labeled "Quantity:" and is a single-line text box.

To add a new product to the database, you must input valid values into every data entry box. For a new item to be added, you can only input a product ID that is not currently in use; otherwise, the existing product under that ID will be updated. In the following example, the product ID is 110, the name is Basketball, the price is \$20.00, and the quantity is 17. Input these values and then click “Save Product.”



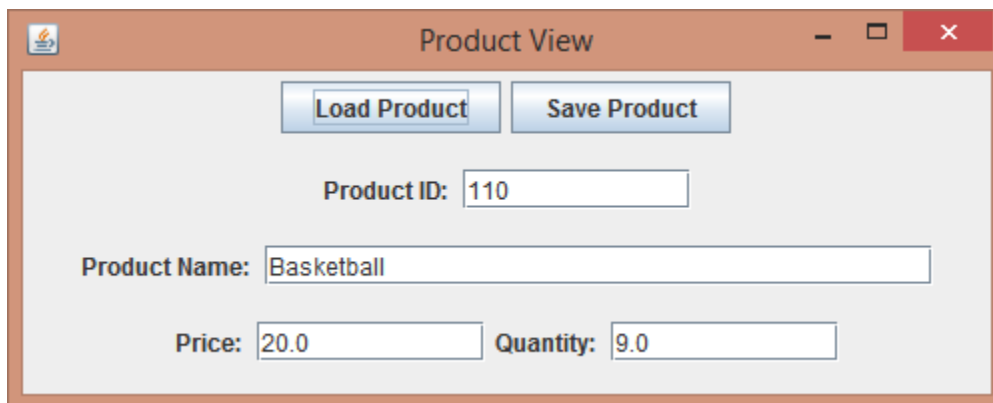
The screenshot shows a window titled "Product View" with a standard Windows-style title bar (minimize, maximize, close buttons). Inside the window, there are two buttons at the top: "Load Product" and "Save Product". Below these buttons, there are four input fields: "Product ID" with the value "110", "Product Name" with the value "Basketball", "Price" with the value "20.00", and "Quantity" with the value "17".

The database now contains the new item. To ensure that the item has been added, you can load the item by inputting the product ID and selecting "Load Product." Input the ID of Basketball into the Product ID box and leave every other input field blank.



The screenshot shows the same "Product View" window. The "Load Product" button is highlighted with a blue border. The "Product ID" field contains the value "110". The "Product Name", "Price", and "Quantity" fields are empty.

After selecting Load Product, the rest of the elements will appear.

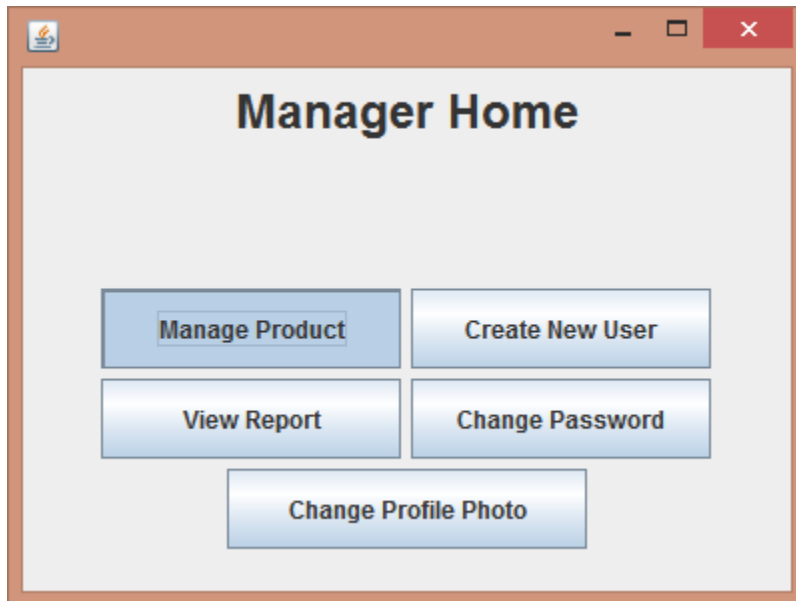


The screenshot shows the same "Product View" window. The "Load Product" button is highlighted with a blue border. The "Product ID" field contains the value "110". The "Product Name" field contains the value "Basketball". The "Price" field contains the value "20.0" and the "Quantity" field contains the value "9.0".

Use Case 5: Update Product

As a manager, I want to update a product in the database.

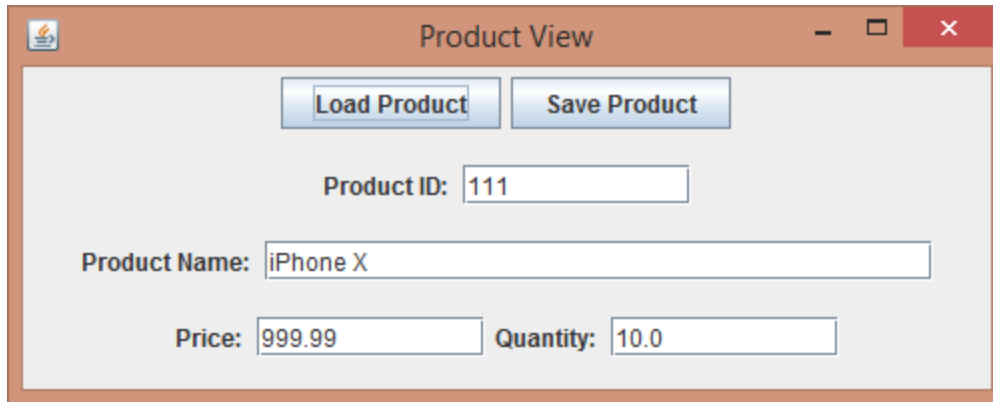
To manage products in the system, click “Manage Product.” You must be logged in as a manager to complete this task.



You will now find yourself at the Product View screen. It contains input fields for the product ID, name, price, and quantity.

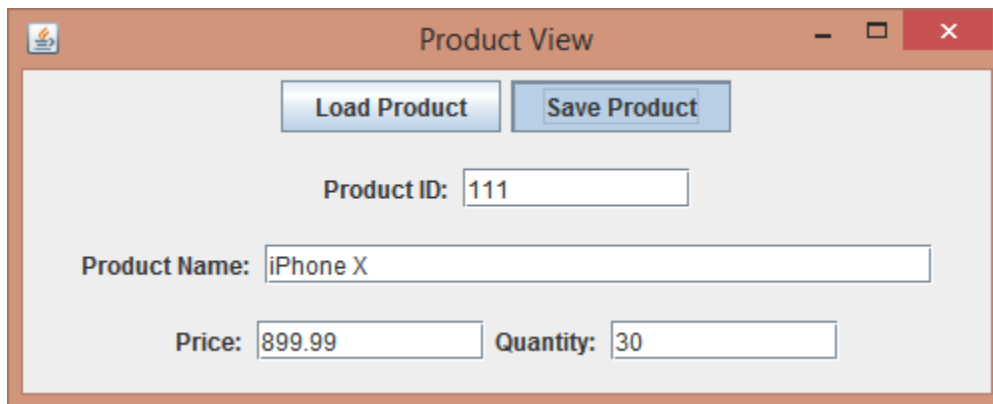
A screenshot of a web application window titled "Product View". The window has a light gray background and a brown border. At the top, there is a title bar with a small icon on the left and standard window controls (minimize, maximize, close) on the right. The main content area contains two blue buttons at the top: "Load Product" on the left and "Save Product" on the right. Below these buttons are four input fields. The first is labeled "Product ID:" and is a single-line text box. The second is labeled "Product Name:" and is a wider single-line text box. The third and fourth are labeled "Price:" and "Quantity:" respectively, and are single-line text boxes. The "Price:" and "Quantity:" labels are positioned to the left of their respective input fields.

To load and display the information of a product that is already in the database, you must input a product ID that already exists. Input the value of 111 into the Product ID field and then click “Load Product.” The corresponding product’s information will display.



The screenshot shows a window titled "Product View" with a standard Windows-style title bar (minimize, maximize, close buttons). Inside the window, there are two buttons at the top: "Load Product" and "Save Product". Below these buttons, the "Product ID" is displayed as 111. The "Product Name" is displayed as iPhone X. The "Price" is displayed as 999.99 and the "Quantity" is displayed as 10.0.

Now, change the price to 899.99 and quantity to 30. To do this, input the new values in the text boxes and click "Save Product." This overrides the data currently in the database with the new information that you've inputted.

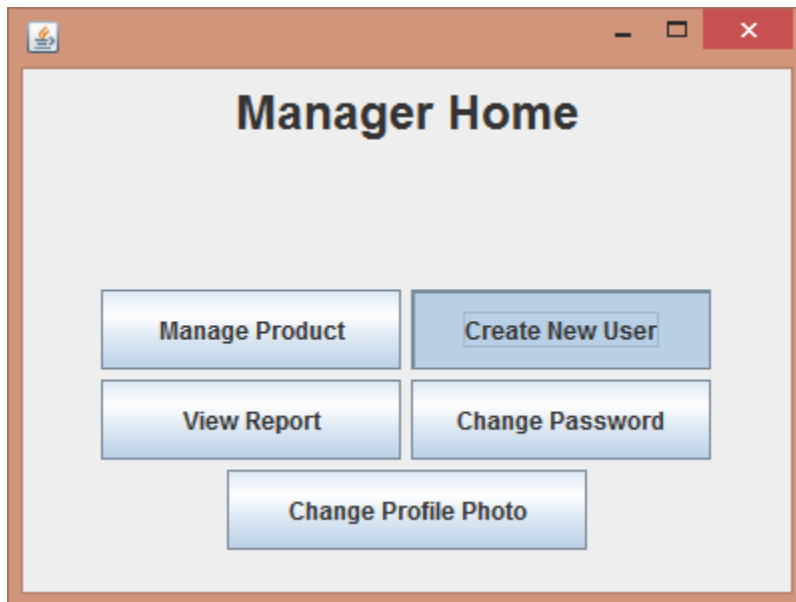


The screenshot shows the same "Product View" window, but with updated values. The "Product ID" remains 111 and the "Product Name" remains iPhone X. The "Price" has been changed to 899.99 and the "Quantity" has been changed to 30. The "Load Product" and "Save Product" buttons are still present at the top.

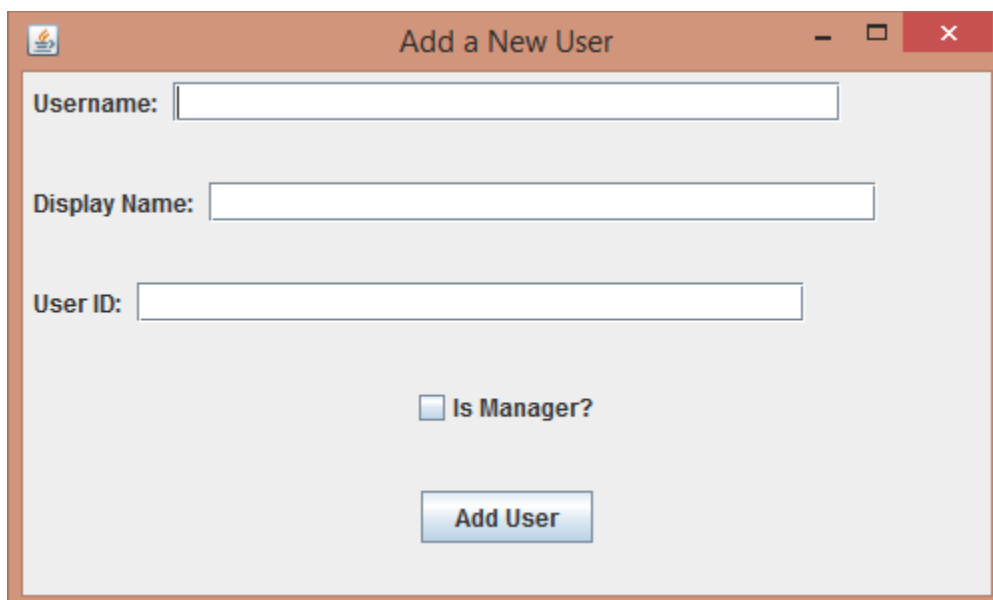
Use Case 6: Create User

As a manager, I want to create a new user.

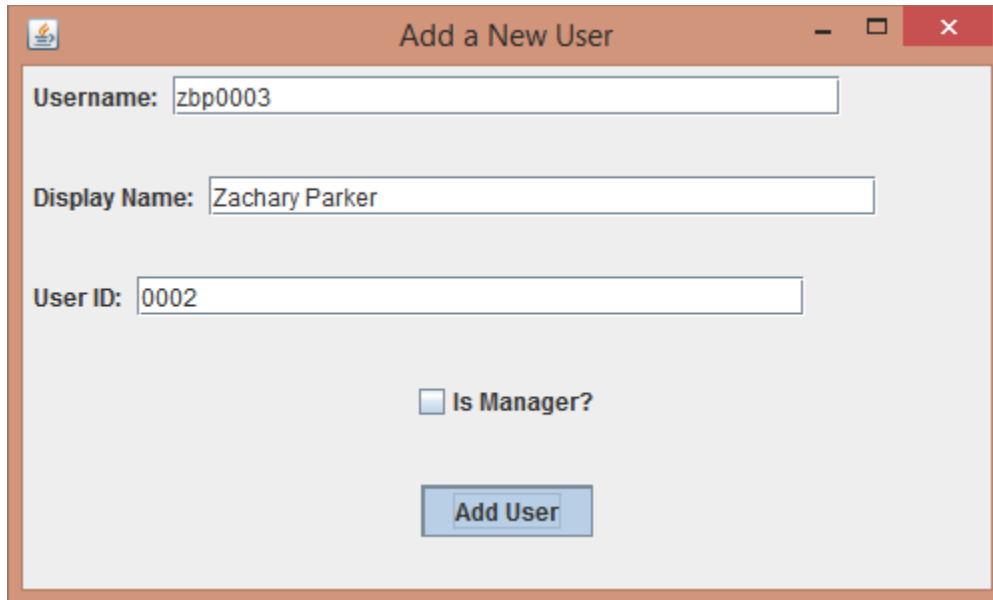
To create a new user, click “Create New User.” You must be logged in as a manager to complete this task.



You will now be brought to an “Add a New User” screen. There are input fields for username, display name, and user ID. Additionally, there is a checkbox to decide whether or not the new user is a manager. If they are not selected as a manager, then they will default to the cashier role. Every new user has a default password of “password.”

A screenshot of a web application window titled "Add a New User". The window has a light gray background and a brown border. At the top, the title "Add a New User" is displayed in a bold, black font. Below the title, there are three input fields: "Username:", "Display Name:", and "User ID:". Each input field is a white rectangle with a thin gray border. Below the input fields, there is a checkbox labeled "Is Manager?". At the bottom of the form, there is a blue button with white text labeled "Add User".

Input a username of “zbp0003,” a display name of “Zachary Parker,” a user ID of 0002, and leave the “Is Manager” box unchecked. Once the fields are filled out, click “Add User.” The new user will be added to the database and will be able to log in using their username and default password. They can change their password at a later date.



The image shows a screenshot of a web application window titled "Add a New User". The window has a light gray background and a brown border. It contains three text input fields: "Username:" with the value "zbp0003", "Display Name:" with the value "Zachary Parker", and "User ID:" with the value "0002". Below these fields is a checkbox labeled "Is Manager?" which is currently unchecked. At the bottom center of the form is a blue button labeled "Add User". The window also features standard window controls (minimize, maximize, close) in the top right corner.

Field	Value
Username:	zbp0003
Display Name:	Zachary Parker
User ID:	0002

☐ Is Manager?

Add User