

# **JAVA Shopping Cart**

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**COP 4331-001**

**Delivery #1 Updated**

## **Project Title: JAVA Shopping Cart**

### **Functional Specification:**

The JAVA Shopping Cart application is created to manage all processes of online shopping. The user can create a new account and log in as either a customer or a seller. After logging in, the customer can see a list of items and their cart information, which starts out empty. The user can directly select an item to add to their invoice, and a tally of the total price is kept on the invoice section. Each item has an info button that the user can click on to view details about that specific item, name, description, price, available quantity, and discount if the item has one. Additionally, items can also come in bundles which are a set of different items.

At any point, the invoice section shows the whole list of items chosen, and the customer can proceed to checkout. At the checkout window the customer can confirm the list of purchases or go back and review. The customer is the customer will be prompted to enter their credit card information. After confirming the information. The purchase is complete.

A seller can log in by changing a toggle at the login screen. The seller menu shows the current inventory. The seller can view the inventory information including internal product ID, type, quantity, invoice price, selling price and discounts for items that have ones. On the Profits tab, the seller can view costs, revenue, and profits. The seller can add a product or update an existing one through the new product option, simply specifies the product name, invoice price, sell price, and quantity. If the product already exists, it will be updated. Otherwise, a new item will be added. The seller can also add a new bundle through the bundle option, and can also remove any item from the inventory.

## **Use Cases:**

1. Customer Log in.
2. Seller Log in.
3. Create new account.
4. Customer adds item to invoice.
5. Customer removes item from invoice.
6. Customer reviews product information.
7. Customer completes payment.
8. Seller adds new item to inventory.
9. Seller adds new bundle to inventory.
10. Seller removes item from inventory.
11. Seller checks revenue, costs, and profit.

### **Use Cases 1:** Customer Log in.

1. User clicks customer button.
2. User enters username and password.
3. System verifies login information.
4. System displays Customer menu.

### **Variation #1:** Invalid login

1. In step 2, user enters invalid username or password.
2. System displays message “invalid login”.

### **Use Cases 2:** Seller Log in.

1. User clicks seller button.
2. User enters username and password.
3. System verifies login information..
4. System displays Seller menu

**Use Cases 3:** Create new account.

1. User clicks "Create Account".
2. System displays Sign up menu.
3. User enters username, password, and confirm password.
4. System verifies signup information.
5. System adds new account to users list.
6. System display login menu.

**Use Case 4:** Customer adds item to invoice.

1. User carries out **Customer Log in**.
2. User selects item from list.
3. User clicks add item.
4. System adds selected item to invoice.
5. System displays invoice.

**Variation #1:** Out of stock.

1. In step 4, Systems display the message "item out of stock".

**Use Case 5:** Customer removes item from invoice.

1. User carries out **Customer adds item to invoice**.
2. User clicks remove item.
3. System removes item from invoice.

**Use Case 6:** Customer reviews product information.

1. User carries out **Customer Log in**.
2. User selects item from list.
3. User clicks info button.
4. System displays item information.

**Use Case 7:** Customer completes payment

1. User carries out **Customer adds item to invoice**.
2. User clicks Check out button.
3. System displays credit card menu.
4. User adds credit card information.
5. User clicks pay.
6. System verifies credit card information.
7. System adds revenue.
8. System displays message “Thank you for purchasing”.

**Use Case 8:** Seller adds new item to inventory.

1. User carries out **Seller Log in**.
2. User clicks new item.
3. System displays new item menu.
4. User adds new item details.
5. User clicks add.
6. System verifies new item details.
7. System adds new item to inventory.
8. System updates costs.

**Variation #1:** Item already in inventory

1. In step 7, System updates details of item in inventory.
2. System updates costs if item quantity is higher than before.

**Use Case 9:** Seller adds new bundle to inventory.

1. User carries out **Seller Log in**.
2. User clicks new bundle.
3. System displays new bundle menu.
4. User adds new bundle details.
5. User clicks add.
6. System verifies new bundle details.
7. System adds new bundle to inventory.

**Use Case 10:** Seller removes item from inventory.

1. User carries out **Seller Log in**.
2. User selects item from list.
3. User clicks remove.
4. System removes item from inventory.

**Use Case 11:** Seller checks revenue, costs, and profit.

1. User carries out **Seller Log in**.
2. User clicks profit.
3. System displays menu showing revenue, costs, and profit.