

Use Case 1: Browse Products

Actors	Customer
Description	The customer views available products from the catalog, including name, description, picture, price, and available quantity.
Data	Product catalog, product details, inventory quantities
Stimulus	Customer opens the catalog page on the website
Response	System retrieves product information and available quantities from the databases, then displays all products with names, prices, pictures, and descriptions.
Comment	Customer can filter or search for specific products; data is pulled from the legacy product database and inventory system

Use Case 2: View Product Details

Actor	Customer
Description	The customer views detailed information about a selected product.
Data	Product information (name, description, price, picture, weight, quantity)
Stimulus	Customer clicks on a specific product.
Response	System retrieves full product details and displays them on the screen.
Comment	Quantity is retrieved from the new inventory database since the legacy database does not track stock.

Use Case 3: Add Product to Cart

Actor	Customer
Description	The customer adds a chosen product with the specified quantity to their shopping cart.
Data	Product ID, quantity, price
Stimulus	Customer clicks “Add to Cart” after selecting a quantity
Response	System validates available stock, adds product to the shopping cart, and updates the subtotal.

Comment	If requested quantity exceeds stock, system displays a message with the maximum available quantity.
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Use Case 4: Update/Remove Cart Items

Actor	Customer
Description	The customer updates quantities or removes items from their shopping cart.
Data	Shopping cart items, product IDs, quantities
Stimulus	Customer changes quantity or removes an item from the cart.
Response	System validates the change, updates the cart totals, and redisplayes the updated list.
Comment	If stock levels changed since the item was added, system adjusts the quantity and notifies the customer.

Use Case 5: View Shopping Cart

Actor	Customer
Description	The customer views the list of all items currently in their shopping cart.
Data	Cart items (product name, quantity, unit price, subtotal)
Stimulus	Customer clicks “View Shopping Cart”
Response	System retrieves all current items in the shopping cart and displays them with totals.
Comment	Customer can proceed to checkout or return to the catalog to add more items.

Use Case 6: Checkout

Actor	Customer
Description	The customer provides shipping and payment information to complete the purchase.
Data	Customer information (name, address, email, credit card), order details, shipping/handling charges
Stimulus	Customer clicks “Checkout” to complete the purchase.

Response	System validates all inputs, calculates total cost (including shipping), sends payment authorization request to the credit card processor, and upon success, records the order and sends confirmation email.
Comment	If payment fails, system displays an error message; if authorization succeeds, order status changes to “Authorized” and confirmation is emailed to the customer

Use Case Description: Warehouse Administrator

Use Case Name	Warehouse Administrator Functions
Actors	Warehouse Administrator
Goal	To manage shipping rates, view and search orders, and configure weight brackets to ensure efficient order handling and shipping processes.
Stakeholders and Interests	<ul style="list-style-type: none">• Warehouse Administrator: Wants efficient tools for order viewing, configuration, and shipment handling.• Customer: Expects accurate and timely shipment updates.• Company Management: Requires up-to-date shipping charges and inventory accuracy.
Preconditions	<ul style="list-style-type: none">• The administrator is logged into the system with valid credentials.• Orders and products exist in the database.• The system is connected to the legacy product and credit card databases.
Postconditions	<ul style="list-style-type: none">• Shipping and handling charges are saved and updated.• Orders can be viewed and filtered accurately.• Weight brackets are properly configured and applied to all future transactions.

Main Flow / Basic Path

Step	Action
1	Administrator logs into the system.
2	Selects an administrative option such as Handle Shipping & Charges, View All Orders, Set Weight Brackets, or Search Orders.
3	The system displays the corresponding interface.
4	Administrator performs the desired task (sets charges, edits brackets, views or searches orders).
5	System validates input and applies changes.
6	Confirmation or results are displayed.
7	Updated information is saved and reflected in the database.

Alternative Flows

Alternative Flow	Description
A1: Invalid Input	If an invalid charge, weight, or date range is entered, the system prompts the administrator to correct the data.
A2: Database Connection Error	If the system cannot access the product or order database, an error message appears and the process pauses until reconnection.

A3: Unauthorized Access	If a user without admin rights attempts to access the interface, access is denied with a security alert.
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Use Case Scenarios

Use Case	Description
Handle Shipping & Charges	Administrator configures and updates shipping costs based on total order weight.
View All Orders	Administrator reviews all customer orders, including their status (authorized, shipped, or pending).
Set Weight Brackets	Administrator defines and edits weight ranges used to calculate shipping costs.
Search Orders	Administrator filters and retrieves orders based on date range, order status, or price range.

Frequency of Use

- Daily: View all orders and handle shipping/charges.
- Weekly or Monthly: Update weight brackets or pricing structures.

Exceptions

- System crash or data inconsistency during update.
- Internet or database service interruption.
- Attempt to save duplicate or overlapping weight brackets.

Use Case Model for Warehouse Receiver

Actor Description

Actor	Description
Warehouse Receiver	Responsible for checking incoming deliveries, verifying product information, Updating Quantity and viewing inventory.

Use Case Descriptions

Use Case Name	Receiving Delivered Products
Actor	Warehouse Receiver
Goal	To enter the arrival of the new product.
Preconditions	The delivery must have a valid purchase order.
Main Flow	<ol style="list-style-type: none">1. Delivery arrives.2. Receiver logs into the system.3. Receiver records delivery details (supplier, products, quantity).4. System confirms receipt and stores records.
Postconditions	Products are marked as "Received" in the inventory.

Use Case Name	Identify Product (By Part Number or Description)
Actor	Warehouse Receiver
Goal	To locate and verify product information.
Preconditions	Product must exist in the database.
Main Flow	<ol style="list-style-type: none">1. Receiver searches for part number or description.2. System displays product details.3. Receiver verifies product information against the delivery slip.
Postconditions	Product details verified for further processing.

Use Case Name	Update Quantity on Hand
Actor	Warehouse Receiver
Goal	To ensure that stock quantities reflect actual received items.
Preconditions	Products must be received and identified.

Main Flow	1. Receiver selects product. 2. Inputs new quantity received. 3. System updates stock count.
Postconditions	Updated quantity saved in the inventory database.

Use Case Name	View Inventory Stock Levels
Actor	Warehouse Receiver
Goal	To monitor inventory levels to prevent shortages or overstocking.
Preconditions	Receiver is logged into the system.
Main Flow	1. Receiver opens inventory dashboard. 2. System displays stock levels. 3. Receiver reviews and verifies stock quantities.
Postconditions	Accurate inventory information available for planning.

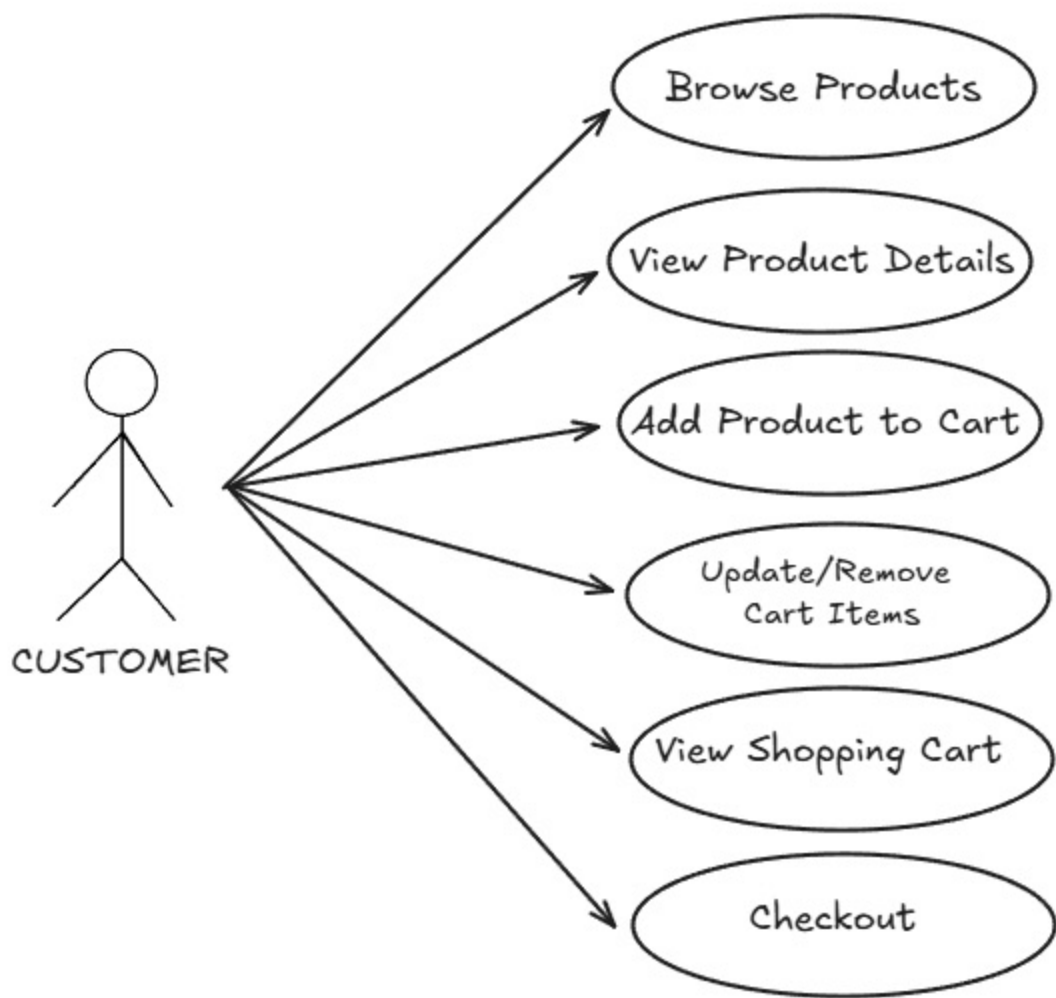
Actor Description Table

Actor Name	Description
Warehouse Worker	The Warehouse Worker is responsible for preparing and shipping customer orders. They view completed orders, retrieve items to pack, print invoices and labels, mark orders as shipped, and send shipping confirmations.

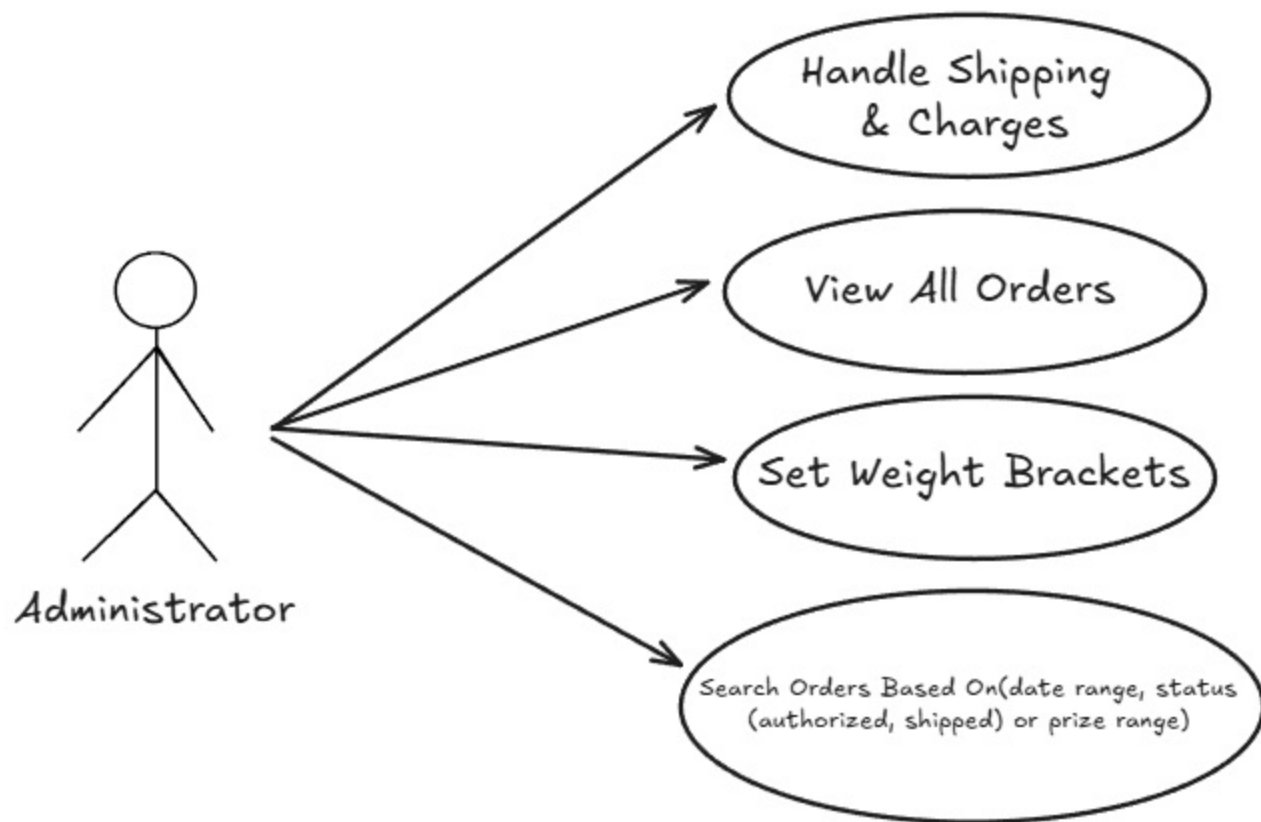
Use Case Description Table

Use Case Name	Description	Primary Actor	Stimulus	Response
View List of Completed Orders	Shows all completed orders ready for packing.	Warehouse Worker	Orders must be marked completed.	Worker can view all completed orders.
Retrieve List of Items to Pack	Displays items that need packing for a chosen order.	Warehouse Worker	Worker selects a completed order.	List of items is displayed.
Print Invoice & Shipping Label	Creates and prints invoice and shipping label.	Warehouse Worker	Order must be ready to ship.	Invoice and label are printed.
Mark Order as Shipped	Updates status to 'Shipped' after sending package.	Warehouse Worker	Order is packed and labeled.	Order status updated to 'Shipped'.
Send Shipping Confirmation Email	Sends an email confirming shipment to the customer.	Warehouse Worker	Order marked as shipped.	Customer receives confirmation email.

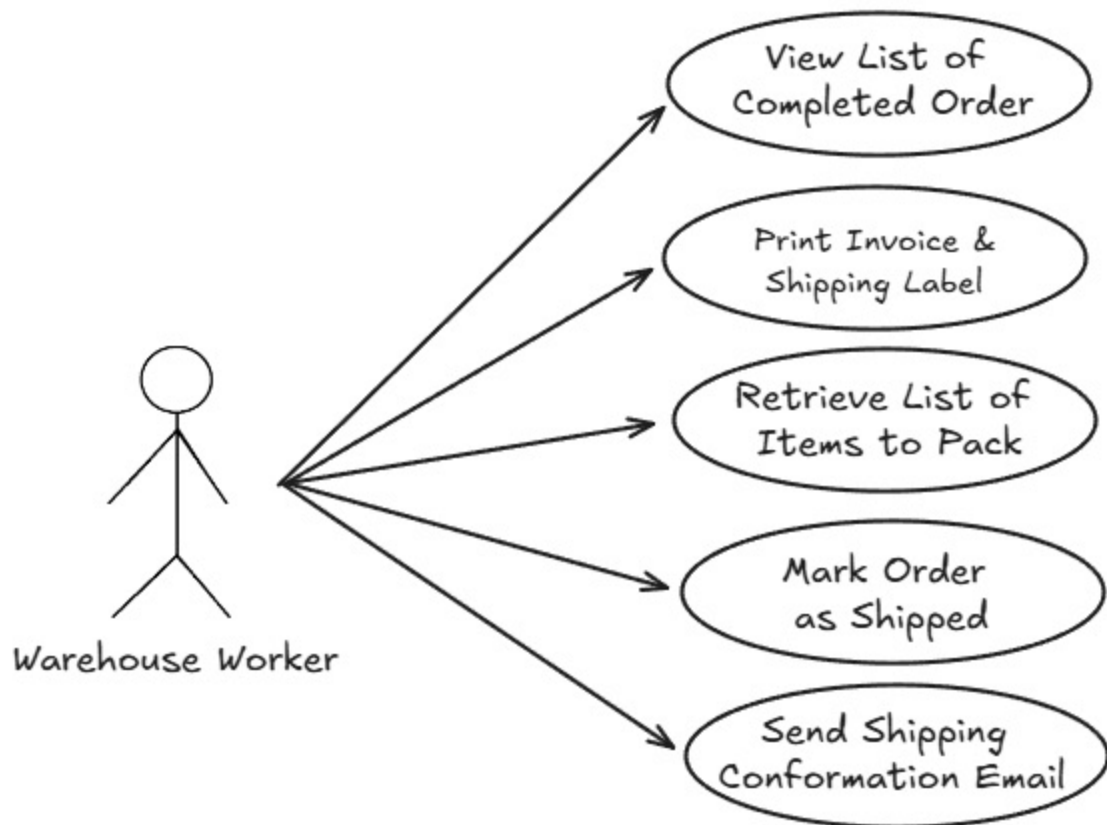
Use Cases in the Auto Shop Involving the Role Customer



Use Cases in the Auto Shop Involving the Role Warehouse Administrator



Use Cases in the Auto Shop Involving the Role Warehouse Worker



Use Cases in the Auto Shop Involving the Role Warehouse Receiver

