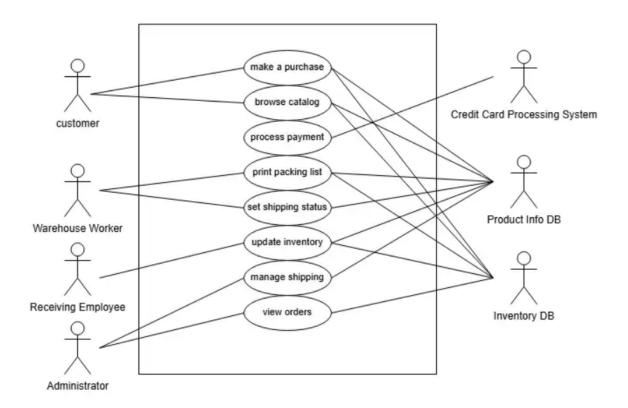
# Use case diagram



# Actor Descriptions

Actor	Description	Use Case(s)
Customer	An individual who uses the online interface to	Browse Catalog, Make a Purchase
	browse the product catalog, select auto parts,	
	and place orders. They provide shipping/-	
	billing info and finalize payment.	
Warehouse	An employee in the warehouse responsible for	Print Packing List, Set Shipping
Worker	printing packing lists, picking items, packing	Status
	shipments, and updating shipping status once	
	an order is shipped.	
Receiving	An employee at the receiving desk who up-	Update Inventory
Employee	dates inventory whenever new product stock	
	arrives (by part number or description) and	
	adjusts quantities on hand in the system.	
Administra-	A privileged user who configures shipping han-	Manage Shipping, View Orders
tor	dling charges, maintains weight-based pricing	
	brackets, and views/searches orders by date,	
	status, or price range.	
Credit Card	An external service used by the new system	Process Payment
Processing	to authorize customer credit card transac-	
System	tions. Receives card info, expiration date, and	
	amount, returning authorization.	
Product Info	The legacy database storing product part	Manage shipping, Update inven-
DB	numbers, descriptions, weights, pictures, and	tory, set shipping status, print
	base prices. The new system retrieves product	packaging list, browse catalog,
	data from here when displaying the catalog.	make a purchase
Inventory	A new or selected database that stores the	Make a Purchase, Update Inven-
DB	quantity on hand for each product, as well as	tory, Browse catalog, Print pack-
	customer orders and their status (authorized,	aging list, View Orders
	shipped, etc.).	

# Use case descriptions

#### 3.1 Browse Catalog

Actors	Customer, Product Info DB, Inventory DB
Description	The Customer views the online catalog of auto parts.
	The system retrieves product information (name, de-
	scription, picture, price, weight) from the Product
	Info DB. The system retrieves inventory information
	from the inventory DB.
Data	Product details: part number, description, weight,
	picture link, price,
Stimulus	Customer requests to browse or search the product
	catalog.
Response	System displays a list of products with relevant de-
	tails.
Comments	This use case is the entry point for a Customer before
	selecting items to purchase.

## 3.2 Make a purchase

Actors	Customer, Product Info DB, Inventory DB
Description	The Customer selects products, specifies quantities,
	provides shipping/billing details, and confirms the
	order. The system calculates the total cost (includ-
	ing shipping/handling).
Data	Selected products and quantities, Customer ship-
	ping/billing information, Shipping and handling
	charges, Total order price
Stimulus	Customer proceeds to checkout (submits order).
Response	System creates a new order record, updates inventory
	levels, and confirms the order
Comments	Credit card authorization is handled by the <i>Process</i>
	Payment use case. An email confirmation is sent
	upon successful purchase.

## 3.3 Print Packing List

Actors	Warehouse Worker, Product Info DB, Inventory DB
Description	Warehouse Worker retrieves a list of authorized
	(paid) orders ready for fulfillment, then prints a
	packing list that includes product details and ship-
	ping information.
Data	Order details (items, quantities, shipping address),
	Inventory DB records (order status)
Stimulus	Warehouse Worker selects an order to be packed.
Response	System generates and prints the packing list
Comments	Printing a packing list helps the Warehouse Worker
	gather all required items for shipment.

## 3.4 Set Shipping Status

Actors	Warehouse Worker, Product Info DB
Description	After packing and shipping an order, the Warehouse
	Worker updates the order status to indicate it has
	shipped.
Data	Order ID, Shipping status (shipped date/time, track-
	ing info if applicable)
Stimulus	Warehouse Worker marks the order as shipped in the
	system.
Response	System updates the order record in the DB, sends
	shipment confirmation email to the Customer.
Comments	Indicating that the order is shipped completes the
	fulfillment process for that order.

## 3.5 Update Inventory

Actors	Receiving Employee, Product Info DB, Inventory DB
Description	The Receiving Employee updates the system when-
	ever new stock arrives, increasing the quantity on
	hand for specific products.
Data	Product part number or description, New quantity
	delivered, Current inventory levels
Stimulus	Receiving Employee logs new products into the sys-
	tem.
Response	System updates the product's quantity on hand in
	the DB.
Comments	Ensures accurate inventory data for orders.

## 3.6 Manage Shipping

Actors	Administrator, Product Info DB
Description	Administrator configures shipping and handling charges, in-
	cluding defining or updating weight brackets and associated
	costs.
Data	Shipping weight brackets, Shipping/handling charges
Stimulus	Administrator chooses to add or modify shipping cost rules.
Response	System saves updated shipping rules in the DB, used for
	future order calculations.
Comments	These charges are factored into the total price when Cus-
	tomers place orders.

#### 3.7 View Orders

Actors	Administrator, Inventory DB
Description	Administrator searches and views orders by date
	range, status, or price range, and can display full
	order details.
Data	Order records: ID, date, status, items, price, etc.
Stimulus	Administrator requests to see orders
Response	System retrieves matching orders from the Inventory
	DB and displays the results.
Comments	The Administrator may also use this information for
	analysis or troubleshooting.

## 3.8 Process Payment

Actors	Credit Card Processing System
Description	The new system submits credit card details (number,
	expiration, amount) to the external Credit Card Pro-
	cessing System for authorization.
Data	Credit card information (number, expiry date), Pur-
	chase amount, Authorization result (approval or de-
	cline)
Stimulus	A request to authorize payment is sent by the new
	system during checkout.
Response	The external system returns an authorization or de-
	cline code. The new system updates the order status
	accordingly.
Comments	If payment is authorized, the order is marked as paid
	and an email confirmation is sent to the Customer.