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Use Case Model

Actor Descriptions

Actor	Description	Use Cases
External Legacy Database	Legacy database that contains the part number, description, weight, picture link and price for all products offered.	Place Order
Customer	A person that browses through inventory, selects desired products and quantity, and is able to place orders.	Place Order, Manage Orders
Credit Card Authenticator	A credit card processing system that requires the credit card number, expiration date and purchase amount.	Process Credit Card, Place Order
Warehouse Employee	A worker at the company, responsible for working on and completing orders.	Manage Orders
Receiving Desk Employee	An authorized employee responsible for managing company inventory.	Update Inventory
Administrator	An authorized employee responsible for shipping and handling charges, and can view all orders.	View All Orders, Set Shipping and Handling Charges

Use Case Descriptions

Place Order

Actors	Customer, Ext. Legacy Database, Credit Card Authenticator
Description	<p>The customer selects products from the catalog, adds them to the cart, inputs personal and payment information, and places orders.</p> <p>The system computes the total price, including shipping and handling charges. It then sends the payment information to the Credit Card Authenticator System.</p> <p>The product catalog is maintained by the Ext. Legacy Database.</p>
Data	Part number, part weight, part price, quantity of part, customer name, customer email, customer mailing address, credit card information.
Stimulus	The customer selects the operation.
Response	The order is added to the internal database.
Comments	

Process Credit Card

Actors	Credit Card Authenticator
Description	Receives customer payment information when customer places order, processes the credit card information, and then sends a response to the system.
Data	Customer credit card number, credit card expiration date, purchase amount
Stimulus	When an order is placed, then credit card information gets sent to Authenticator
Response	An authorization number
Comments	Response can indicate good or bad credit card information

Manage Orders

Actors	Warehouse Employees, Customer
Description	The warehouse workers will print packing lists for completed orders, retrieve items from the warehouse, package the orders up, add a shipping label and invoice. Then the system sends an email to the customer saying the order has shipped.
Data	Customer name, customer email, customer mailing address, order-related data.
Stimulus	Upon order completion and when employee selects operation.
Response	Email confirmation to customer.
Comments	

Update Inventory

Actors	Receiving Desk Employee
Description	The employee will add products to the inventory when delivered.
Data	Part number, part description, quantity of part.
Stimulus	Upon new inventory arrival and when employee selects operation.
Response	Inventory gets updated in the internal database.
Comments	

Set Shipping and Handling Charges

Actors	Administrator
Description	The administrator can set shipping and handling charges based on the weight of complete orders.
Data	Weight of orders.
Stimulus	Administrator selects operation.
Response	Shipping and handling charges get updated in the internal database.
Comments	

View Orders

Actors	Administrator
Description	The administrator can view all orders, these orders can be searched by date range, status, or price range. This also shows all details of a selected order.
Data	Order-related data.
Stimulus	Administrator selects operation.
Response	A report of the orders.
Comments	

