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CSE 3241 PROJECT PART 1 - Requirements

From assignment:

1. Owner can add or change or delete the base price of a product type. For example, \$8 for a 'OSU mug'. The information added will become effective immediately.
2. Owner can track shipment information such as the product type and its corresponding quantity.
3. Owner can track customer information such as customer ID, name, address, phone.
4. Owner can track sales information including product type, sale price, invoice number, customer ID, tax and total.
4. Owner can track the inventories that include product type and quantity. The quantity in stock should match the total items received (through shipments) minus the number of items sold.

Additional Requirements:

-When an order is placed, product instances are created for each individual product purchased, along with the purchase price. This "locks in" the purchase price of the item, to be retrieved in case of returns.

-For each order, the store stores the following information: order date, payment information, order id, customer id, total price, tax, shipping address (street address and zip code), and each individual product in the order along with its price.

-When it is shipped, the tracking information for an order is stored in the database. This provides a tracking number along with the carrier. Additional shipping information must be retrieved by the customer from the carrier. An order may be split up into more than one shipment if necessary.

-Each user has a cart, which they can place items into. Placing an item into a cart doesn't guarantee that the customer "reserves" the item; an item is only removed from stock when a customer confirms their order, which requires a completed transaction, and the customer's information.

-When there is a low stock level, and as a result there is a price markup: if a customer decides to add a quantity greater than one, then the price mark-ups for next items after the first will match the lowest price markup in the cart.

-A customer has the option to return items from orders placed within 30 days. They must have the order id, and can choose from their order: what quantity of which product(s) they wish to return. Value of the return product will be the same as the price when that product was purchased. The product(s) will be added back into stock immediately after the return is processed unless the product is damaged.

Project Part 1 ER Diagram

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