What data needs to be stored in a shopping cart?

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Product Information

1. **Product ID:** A unique identifier for the product.
2. **Product Name:** Description of the product.
3. **Quantity:** Number of items added to the cart.
4. **Price:** Unit price of the product.
5. **Variant (if applicable):** Specific attributes like color, size, or material.
6. **Product Image/Description:** Enables the presentation of a brief overview in the cart.

Customer Information

1. **Customer ID:** A unique identifier for the customer.
2. **Customer's name**
3. **Shipping Address:** Full address, including city, state, country, and ZIP code.
4. **Billing Address:** If different from shipping address.
5. **Contact Information:** Phone number and email address.

Real-Time Data Updates

1. **Price Alerts:** Notify users of price changes, with a timestamp for limited-time validity.
2. **Stock Updates:** Keep users informed about item availability in real-time.

Payment Details

1. **Payment Method:** Chosen payment method (e.g., credit card, PayPal).
2. **Payment Status:** Indicates whether the payment has been processed.

Order Details

1. **Order ID:** A unique identifier for the order.
2. **Order Date:** Date and time when the order was placed.
3. **Order Status:** Current status of the order (e.g., pending, processing, shipped, delivered).
4. **Subtotal:** Total price of products before taxes and shipping.
5. **Shipping Cost:** Cost of shipping the order.
6. **Grand Total:** Total amount due, including products, taxes, and shipping.
7. **Estimated Delivery Date**: Based on shipping and location.

Special Considerations

1. **Coupon Codes:** If applicable, any coupon codes used for discounts.
2. **Gift Wrapping:** Whether gift wrapping is requested.
3. **Shipping Instructions:** Special instructions for shipping (e.g., leave at the door).

Cart Details

1. **Cart ID:** A unique identifier for each cart instance.
2. **Cart Status:** abandoned, Active, completed.
3. **Time Stamps:** Creation and last update time to track cart activity.
4. **Saved Cart:** Option for users to save their cart for later.