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| **Use Case Name:** | Place an order | |
| **Scenario:** | places an order for items in cart | |
| **Triggering Event:** | Customer decides to purchase items from their shopping cart. | |
| **Brief Description:** | The customer logs in, the system retrieves the cart, checks item availability, processes payment, updates inventory, and sends confirmation. | |
| **Actors:** | * Customer | |
| **Stakeholders:** | * Customer | |
| **Preconditions:** | * Customer has an account. * Items are added to the shopping cart. | |
| **Post conditions:** | * Order is placed successfully, and confirmation is sent. * Inventory is updated. * If payment fails or items are unavailable, error messages are shown. | |
| **Flow of Activities:** | **Customer** | **System** |
| 1. Customer must login | 1.1 System checks if customer is logged in. |
| 1. Customer initiates checkout. | 2.1 System retrieves cart items.  2.2 System checks item availability.  2.3 System prompts for payment info. |
| 1. Customer enters payment details. | 3.1 System processes the payment. 3.2 system updates inventory.  3.3 System sends order confirmation. |
| 1. Customer receives confirmation. |  |
| **Exception Conditions:** | 1.1. customer is not authorized  2.2 if the items aren’t available, then the system displays an error.  3.2 if the payment failed, then the system displays payment error. | |