-------------- **State Transition Diagram for Adding an Item to Cart and Checking Out------------------**

**## Key States**

**1. Browsing Items:** The user is exploring available products.

**2. Item Selected:** The user selects an item to view its details.

**3. Item Added to Cart:** The user adds the selected item to the cart.

**4. Cart Updated:** The cart is updated with the new item.

**5. Proceeding to Checkout:** The user decides to check out.

**6. Checkout Completed:** The user completes the checkout process.

**7. Order Confirmed:** The order is confirmed and processed.

**## Transitions**

**1. Browse Items** → Item Selected

**2. Item Selected** → Item Added to Cart

**3. Item Added to Cart** → Cart Updated

**4. Cart Updated** → Proceeding to Checkout

**5. Proceeding to Checkout** → Checkout Completed

**6. Checkout Completed** → Order Confirmed

**## Visual Representation**

[Browsing Items]

        (Select Item)

 [Item Selected]

        (Add to Cart)

[Item Added to Cart]

(Update Cart)

[Cart Updated]

        (Proceed to Checkout)

[Proceeding to Checkout]

        (Complete Checkout)

[Checkout Completed]

        (Confirm Order)

[Order Confirmed]