E-commerce End-to-End Process

1. Account Access & Verification

The shopping journey begins as soon as a visitor enters the e-commerce platform. The system immediately verifies their login status.

- **New User:** If no account is found, the visitor is redirected to the registration/login screen. They enter their details, which are validated, and a new profile is created. A verification email is also sent.
- Returning but Logged-Out User: If the user already has an account but isn't signed in, they are prompted to log in with credentials checked against stored records.
- **Logged-In User:** If an active session exists, the customer is taken directly to the main shopping interface.

2. Browsing & Shopping Cart Actions

Once access is granted, the buyer can start exploring products.

- Search & Browse: Customers may navigate categories or use the search feature to find desired products.
- **Product Page:** Selecting an item opens a detail page with specifications, reviews, images, and other essential information.
- Cart Addition: Items can be added to the cart directly from the product page.
- Next Step: Shoppers may either continue exploring and add more products or head to the checkout process.

3. Checkout & Payment Flow

This phase ensures the order details and payment are completed.

- Shipping & Billing Info: The system asks customers to enter delivery and billing details, validating accuracy before proceeding.
- Order Summary: A final review page displays product totals, taxes, and shipping charges for user confirmation.

• Payment Handling:

- o **On Success:** The payment is accepted, and a unique order ID is created.
- On Failure: A payment error message is displayed, and the customer is asked to retry or choose another payment method. The process loops back to the payment stage.

4. Fulfillment & Delivery

Once a payment clears, the order is sent for processing and shipment.

- **Inventory Adjustment:** The system updates stock records to reflect the purchase.
- Confirmation Notice: A detailed confirmation email is sent to the customer.
- Processing Queue: The order is placed in the fulfillment pipeline.
- **Picking & Packing:** Warehouse staff retrieve the items, pack them, and prepare them for shipping.

Delivery Stages:

- A shipping label is printed.
- The package is handed over to a courier.
- The system updates the order status to "Shipped."

5. Process Completion

The cycle concludes once the product successfully reaches the customer, marking the end of the e-commerce workflow from login to delivery.