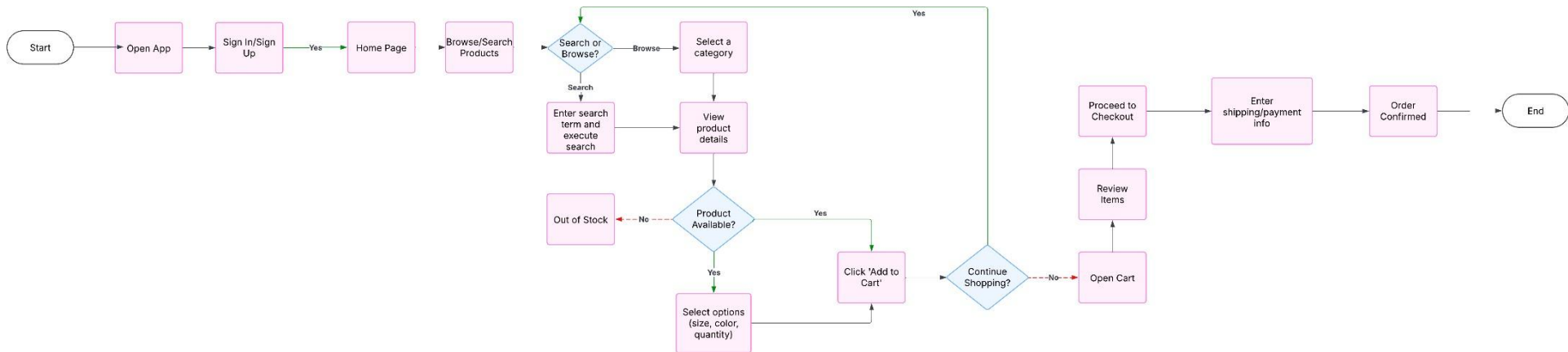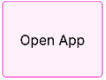# E-Commerce Application

Task Analysis
- ➢ Opening the App for Authentication
- ➢ Browsing or Searching for Products
- ➢ Adding a Product to the Cart
- ➢ Checking Out

Process Flow

1. Opening the App for Authentication

Start	Start: User launches the application.
Open App	Open App: App opens to the welcome screen.
Sign In/Sign Up	Sign In/Sign Up: User logs in or creates an account.

Home Page	Home Page: If authenticated, the user lands on the home page.

Flow: Start → Open App → Sign In/Sign Up → Home Page

2. Browsing or Searching for Products

Browsing Products

Search or Browse?	Browse Products: User chooses to browse categories.
Select a category	Select a Category: User selects a product category.
View product details	View Product Details: User views detailed information about a product.
Product Available?	Check Availability: The system checks if the product is in stock.

Flow: Browse/Search Products → Select a Category → View Product Details → Check Availability

Searching for a Specific Product
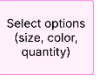
Search or Browse?	Search Products: User selects the search option.
Enter search term and execute search	Enter Search Term: User types a product name or keyword. Execute Search: The system returns matching results.

View product details	View Product Details: User selects a product to see details.
Product Available?	Check Availability: The system checks if the product is in stock.

Flow: Search or Browse → Enter Search Term → Execute Search → View Product Details → Check Availability

3. Adding a Product to the Cart

Product Available?	Product Available? System checks if the product is available.
Out of Stock	If No, the system displays "Out of Stock" and the flow stops.
Select options (size, color, quantity)	If Yes, the user selects product options (size, color, quantity).
Click 'Add to Cart'	Add to Cart: User clicks "Add to Cart".
Continue Shopping?	Continue Shopping Decision: User decides whether to continue shopping or proceed to checkout.

Flow: Product Available? → (Yes) → Select Options → Add to Cart → Continue Shopping Decision

4. Checking Out

Open Cart	Open Cart: User taps on the cart icon.
Review Items	Review Items: User checks all products in the cart.
Proceed to Checkout	Proceed to Checkout: User confirms readiness for payment.
Enter shipping/payment info	Enter Shipping/Payment Info: User provides shipping and payment details.
Order Confirmed	Order Confirmed: The system confirms a successful order.
End	End: User closes the app

Flow: Open Cart → Review Items → Proceed to Checkout → Enter Shipping/Payment Info → Order Confirmed