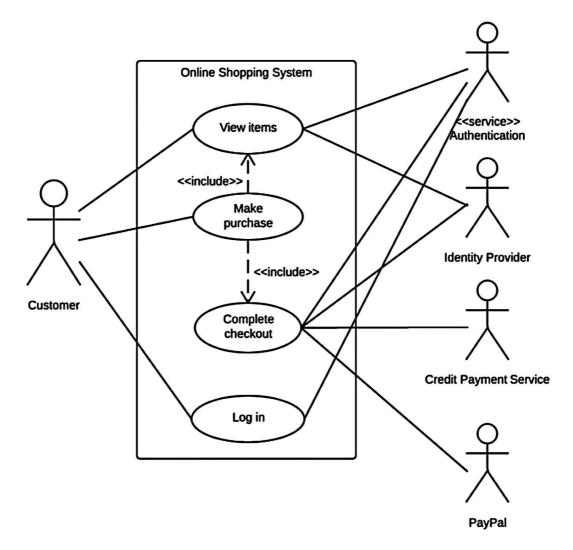
1. Use case diagram

"Draw and explain a UML Use Case Diagram for an *Online Shopping System*. The system should include the following:

- A customer can view items, make purchases, and complete checkout.
- Authentication and Identity Provider services should be included.
- · Payment can be completed through Credit Payment Service or PayPal.
- The system should also support a login process."



2. Use case description

Use Case: Make Purchase

Goal:

Customer selects an item and adds it to the shopping cart in order to buy later.

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Preconditions:

- Customer is logged in.
- Customer has already viewed items.

Success End Condition:

Item is successfully added to the shopping cart.

Failed End Condition:

Item is not added to the cart (e.g., due to stock issues or invalid selection).

Primary Actor:

Customer

Secondary Actors:

- Inventory System
- Shopping Cart Service

Trigger:

Customer clicks the "Add to Cart" button after selecting an item.

Description / Main Success Scenario

Step Action

- Customer views available items.
- 2 Customer selects a desired item.
- 3 System retrieves item details (price, stock, description).
- 4 Customer clicks "Add to Cart."
- 5 System verifies item availability.
- 6 System adds the item to the shopping cart.
- 7 System shows confirmation message ("Item added to cart").

Alternative Flows

Step Branching Action

- 5a If item is out of stock 'n System shows "Out of Stock" message.
- 5b If item selection is invalid 'n System shows "Invalid Selection" error.
- 6a If cart service is unavailable 'n System shows "Unable to add item, try again later."

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