

1. Use Cases and Use Cases Diagram

Use Case Name: Account Registration

Actors: User
Description: New users can create account providing username and password, email, phone number, and mailing address. The system validates and stores the user's information.

Use Case Name: User Login

Actor: User
Description: Users log in to the application using their username and password

Use Case Name: Browse Merchandise

Actor: User
Description: User can browse the name, pictures, and prices of items.

Use Case Name: Add Items to Cart

Actor: User
Description: User can add merchandise to their shopping cart while still browsing.

Use Case Name: Manage Shopping Cart

Actor: User
Description: Users can view their shopping cart, modifying quantities, or removing items. The system will update the shopping cart and recalculate the price total.

Use Case Name: Checkout and Payment

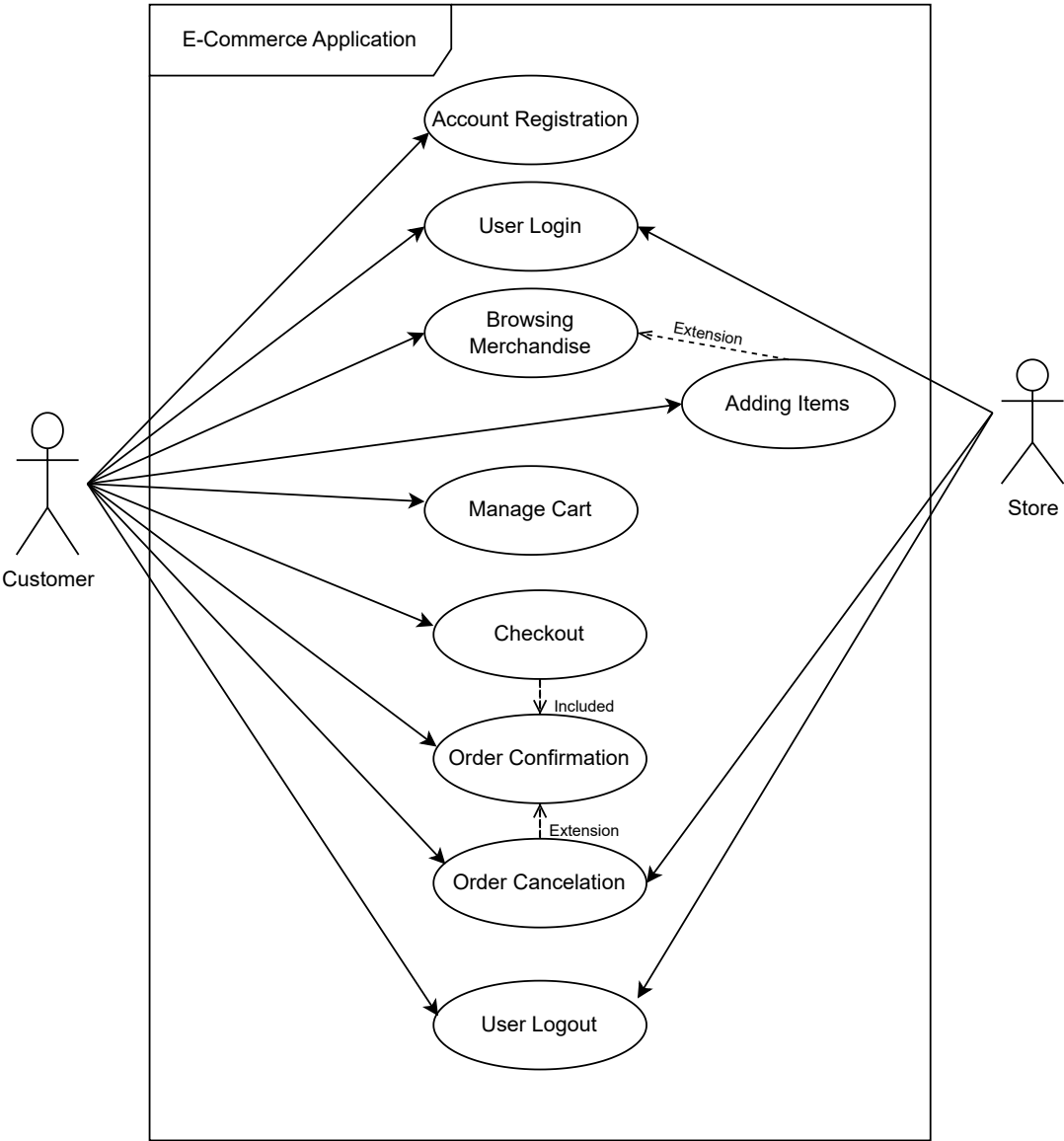
Actors: User
Description: Users proceed to checkout and pay their order, enter their credit card information, selecting their mailing address, and the system process the payment securely.

Use Case Name: Order Completion

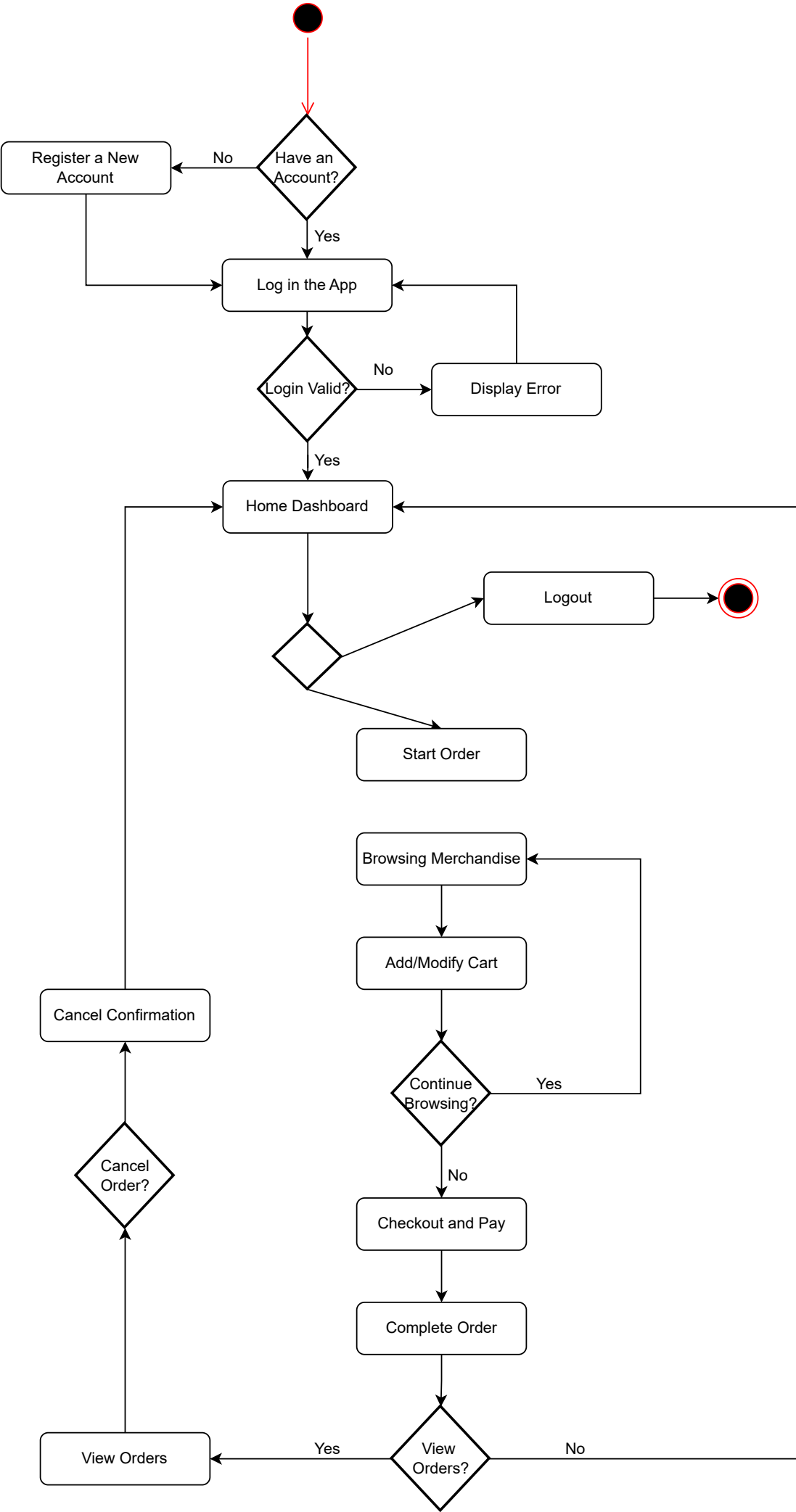
Actor: User
Description: Upon successful payment, the system creates an order for the customer, including order number, customer name, list of items, total price and postal address.

Use Case Name: Order Cancellation

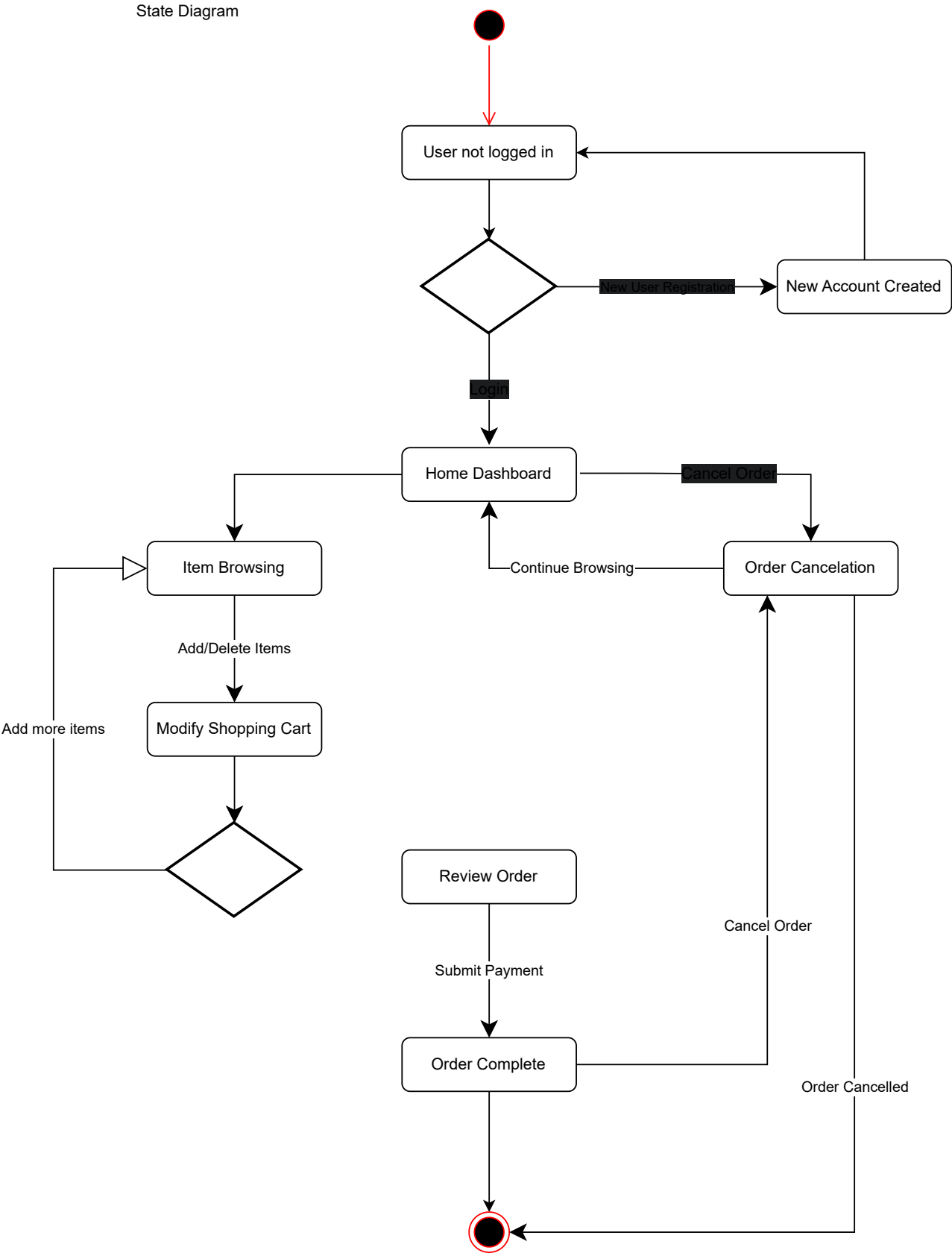
Actor: User, Store
Description: Customers can cancel an order they have placed. The store can also cancel orders on their end.



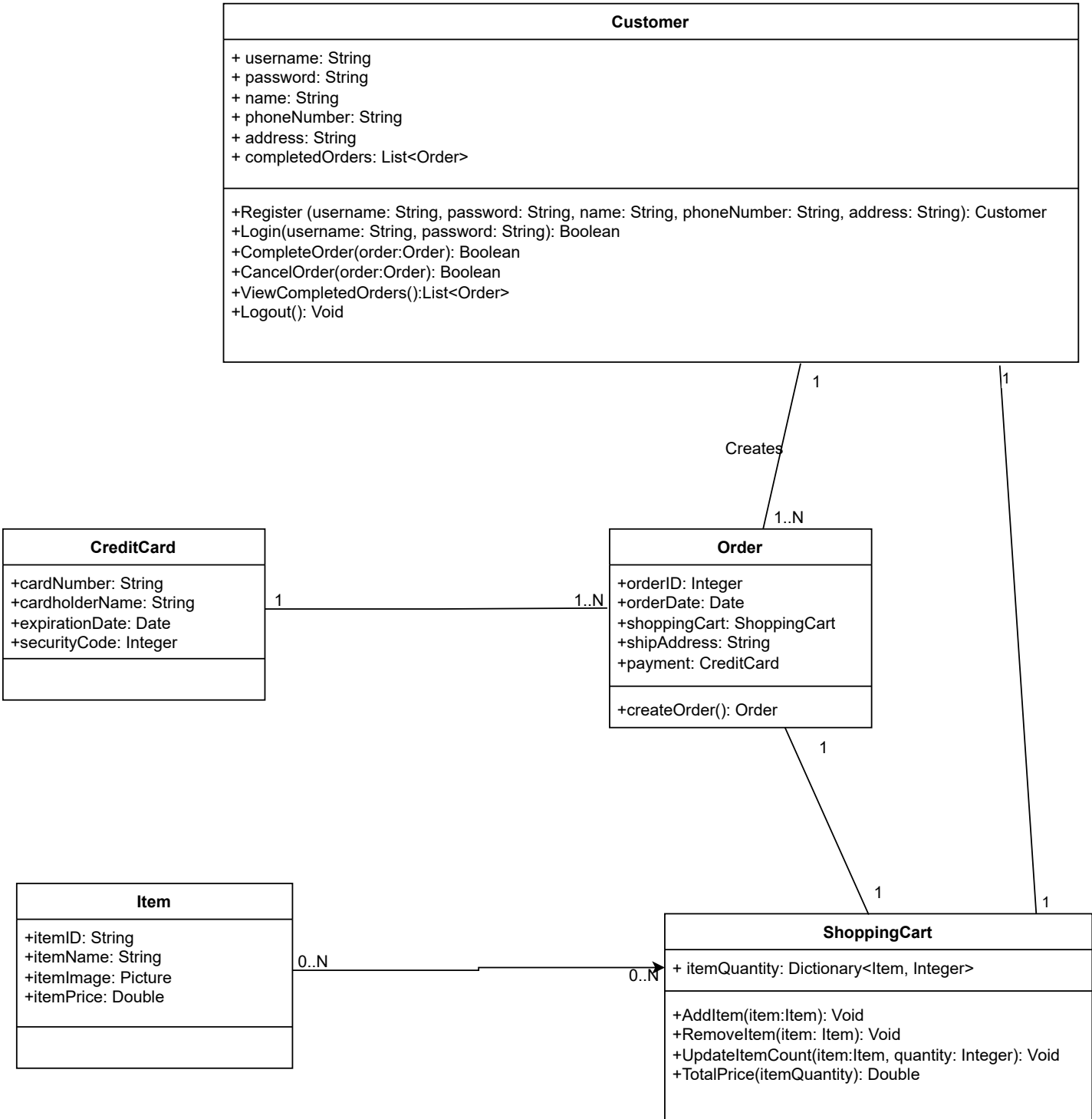
Activity Diagram



State Diagram



Class Diagram



Sequence Diagram

