



amazon



# Meet Our Team



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# Introduction

This project involved a complete software engineering analysis of an Amazon-like e-commerce system. We identified key stakeholders, defined system requirements, and created architectural diagrams to model its functionality based on user requirements

## Key points

- System Design Diagrams (ERD, Use Cases, Activity, Sequence, State, and Class Diagrams)
- Proposal for New Features: Shopping Together & TrustGuard
- Amazon Pro: the system prototype.



# What are project Objectives?



To enhance the online shopping experience through intelligent automation and personalized user pathways. This addresses user demands for smart search, personalized recommendations, and faster, more intuitive processes that were identified in our interviews and surveys.



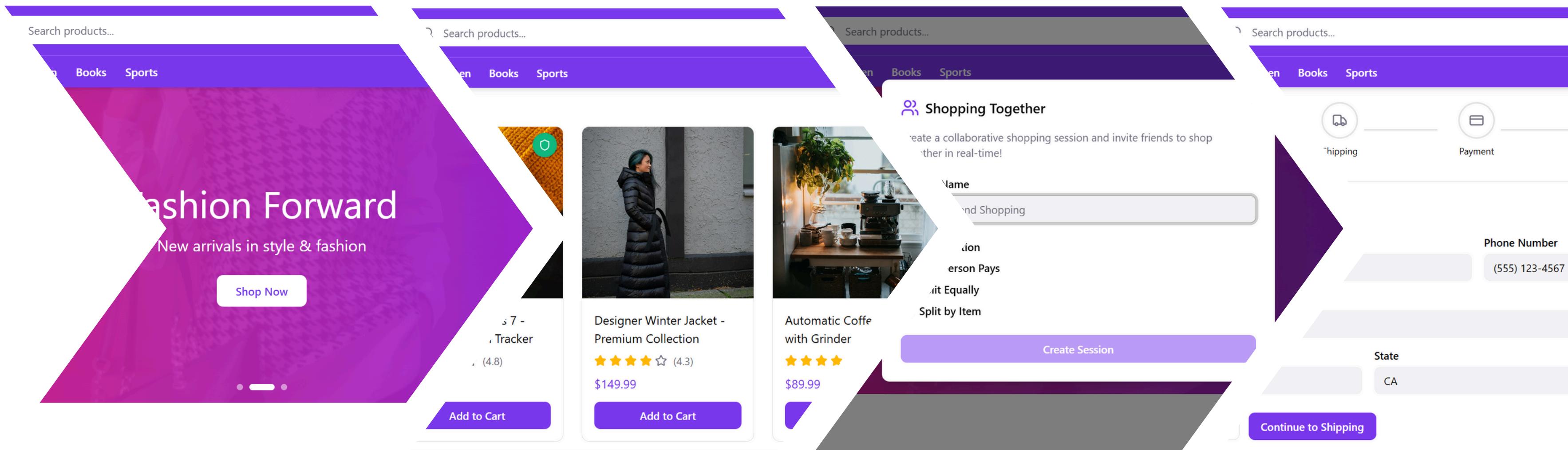
To build a more secure and trustworthy marketplace by integrating advanced verification and community-driven validation. This directly tackles the critical user concern about product authenticity and fake items by introducing the TrustGuard feature for product verification.

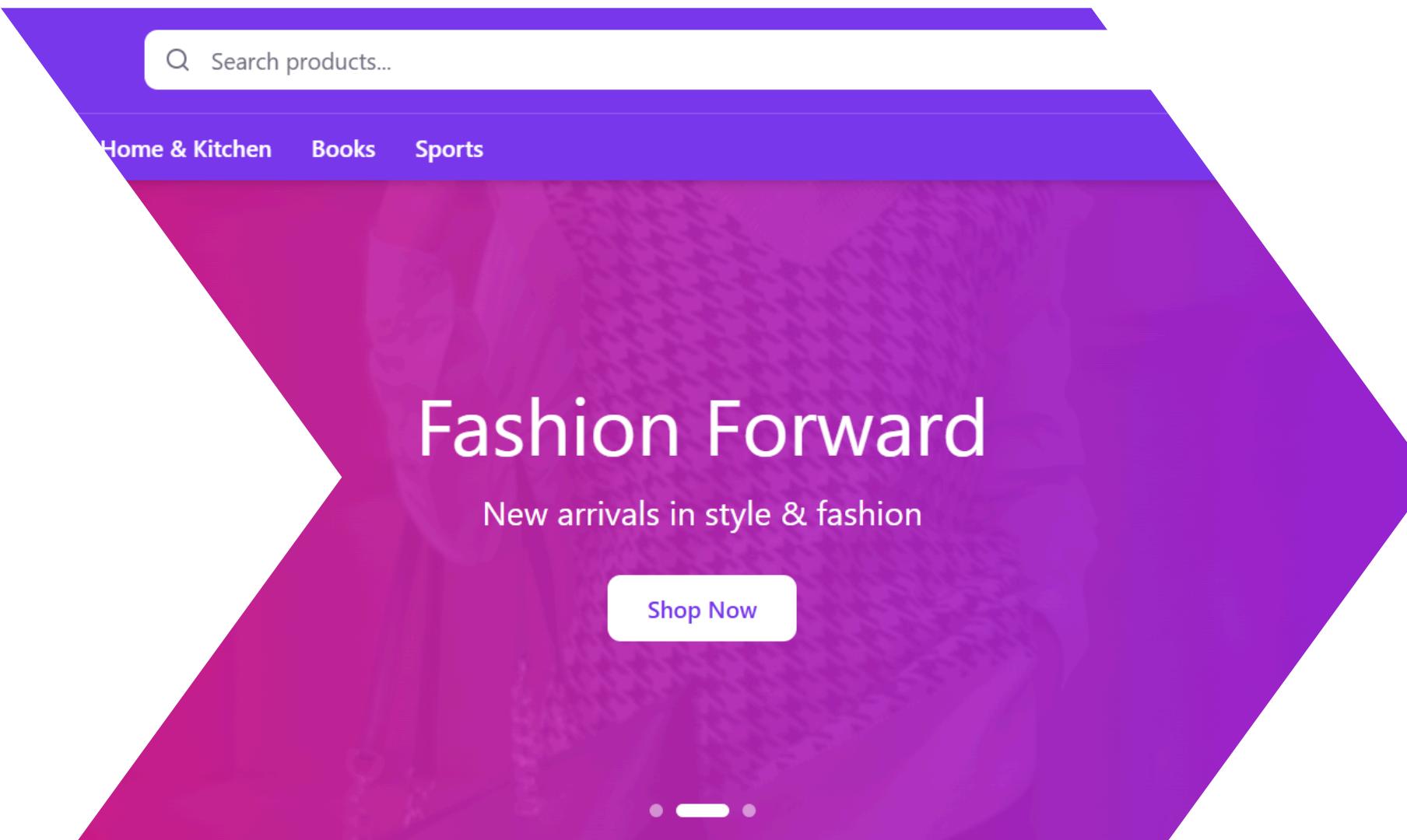


To transform e-commerce from an individual task into a collaborative social experience with real-time interactive features. This leverages the strong user support for the Shop Together feature, allowing users to browse, chat, and manage shared carts in real-time

# Our Prototype

This design outlines the "Amazon Pro" Figma prototype, featuring a fully interactive cart, secure checkout, and innovative AI-powered TrustGuard and real-time Shopping Together functionalities.





# Link to the prototype page

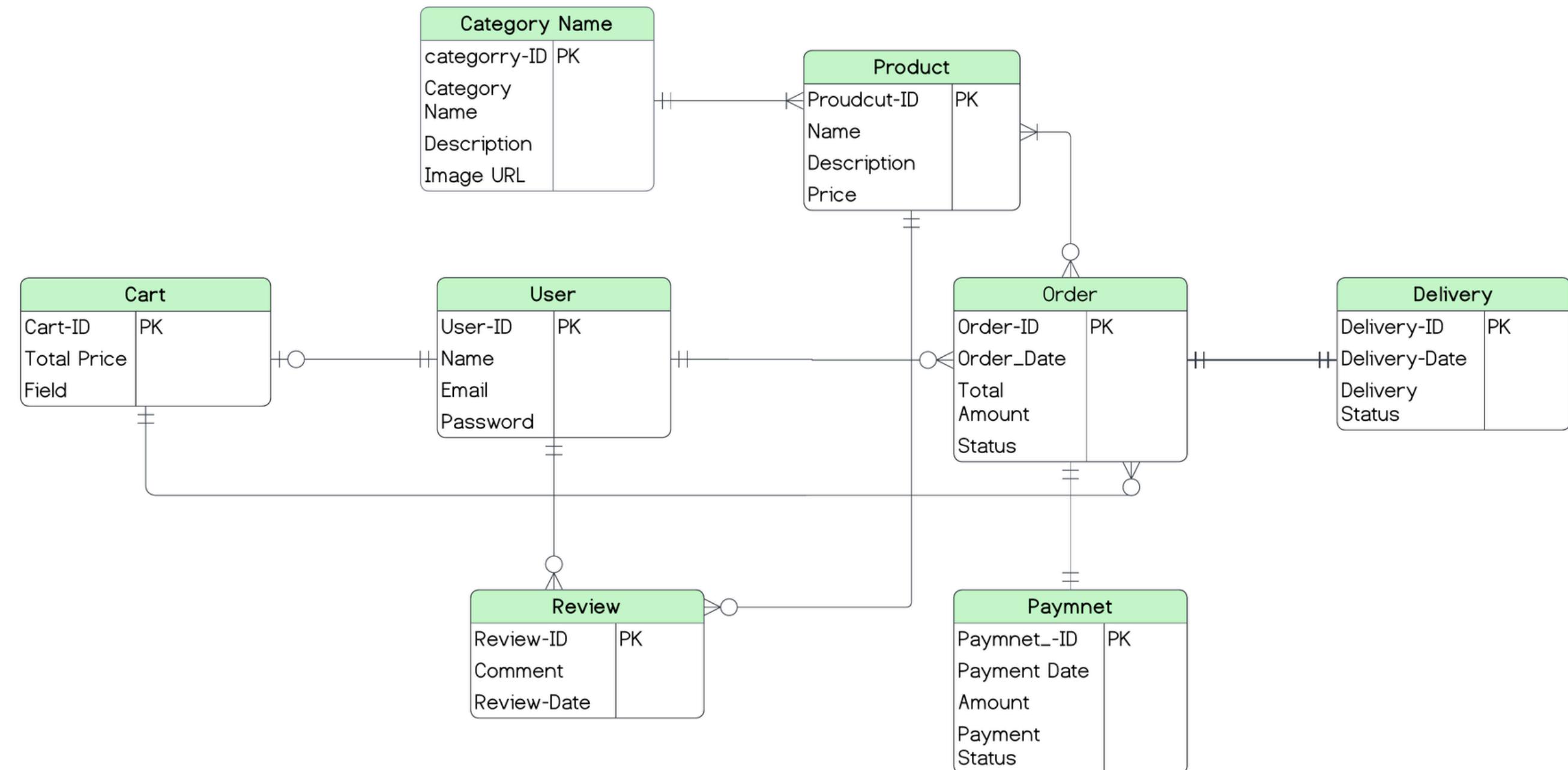
[This design outlines the "Amazon Pro" Figma prototype, featuring a fully interactive cart, secure checkout, and innovative AI-powered TrustGuard and real-time Shopping Together functionalities.](#)

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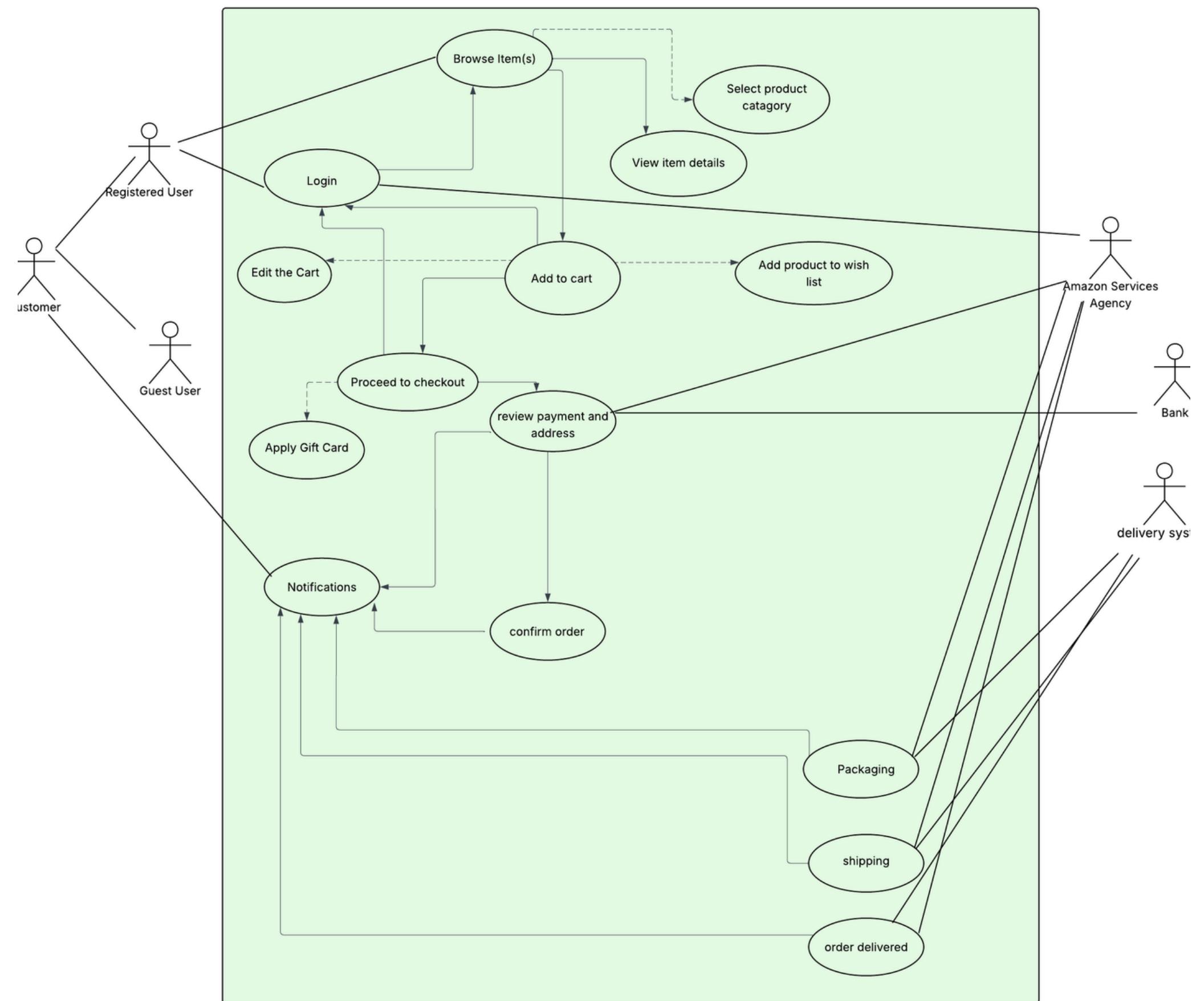
# Entity Relationship Diagram

Entity Relationship Diagram



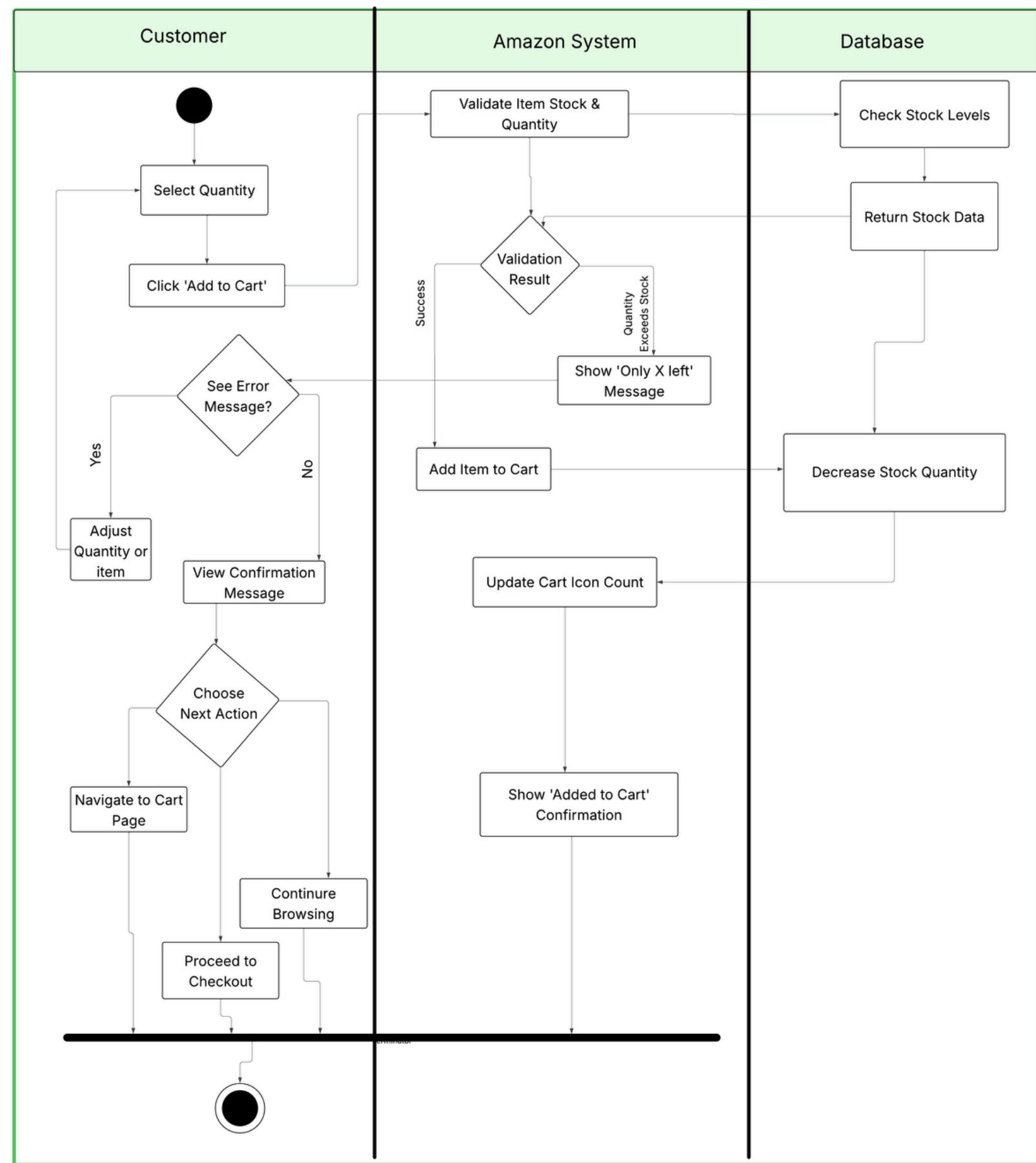
# Use-Cas diagram

Use-Case diagram



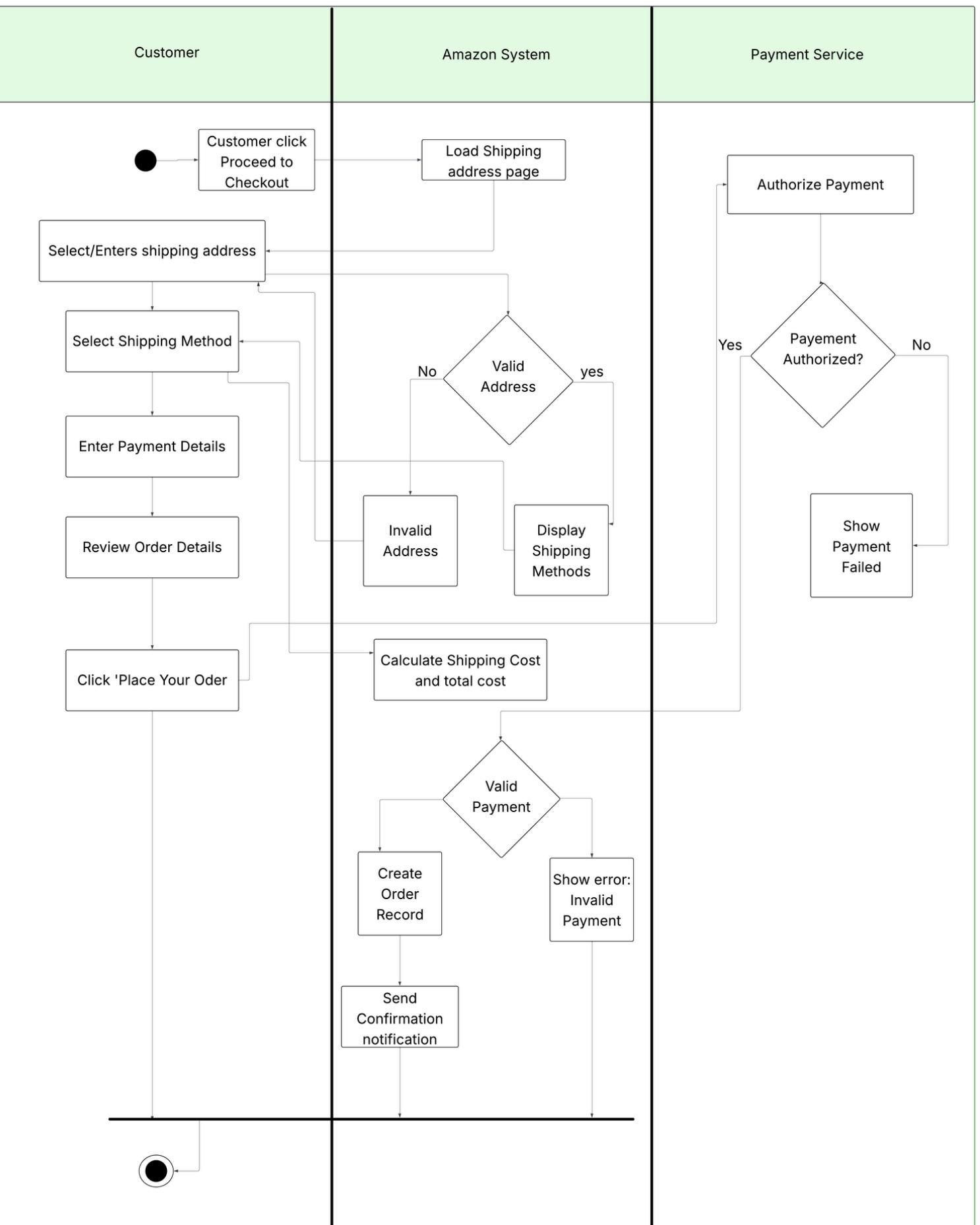
# Add to Cart Activity Diagram

"Add to cart" Activity diagram



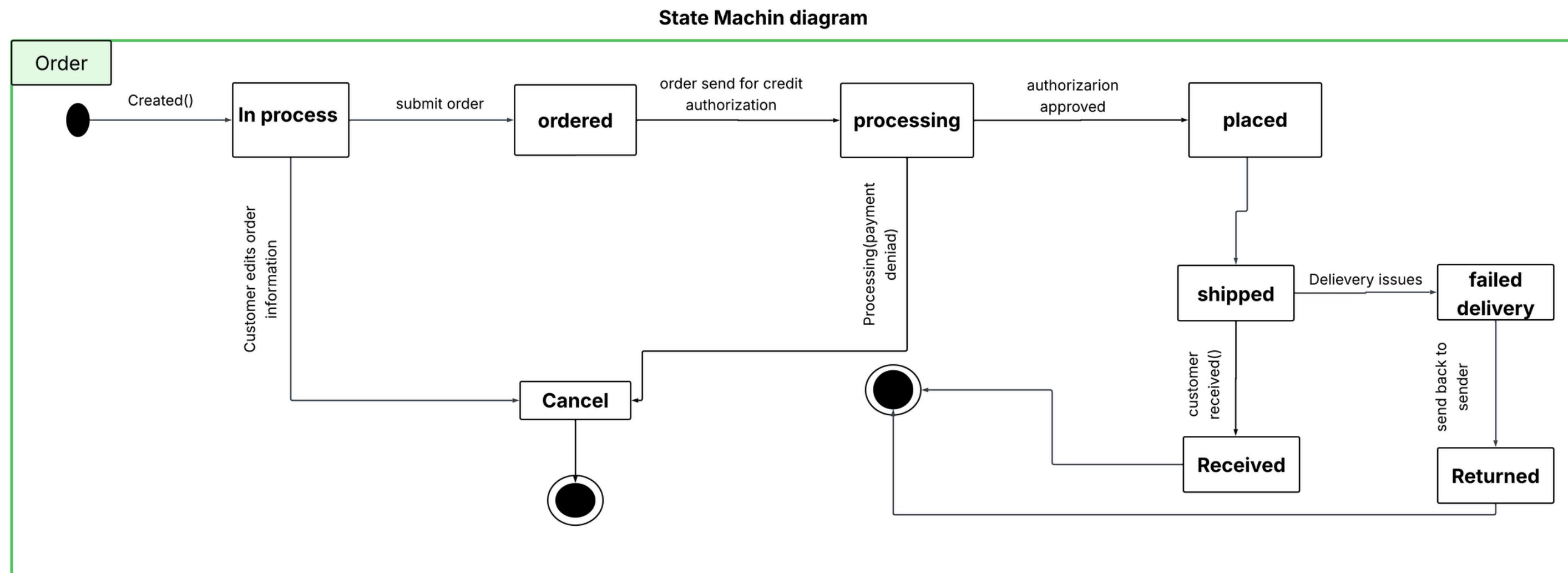
# Check-out Activity Diagram

Checkout Activity diagram



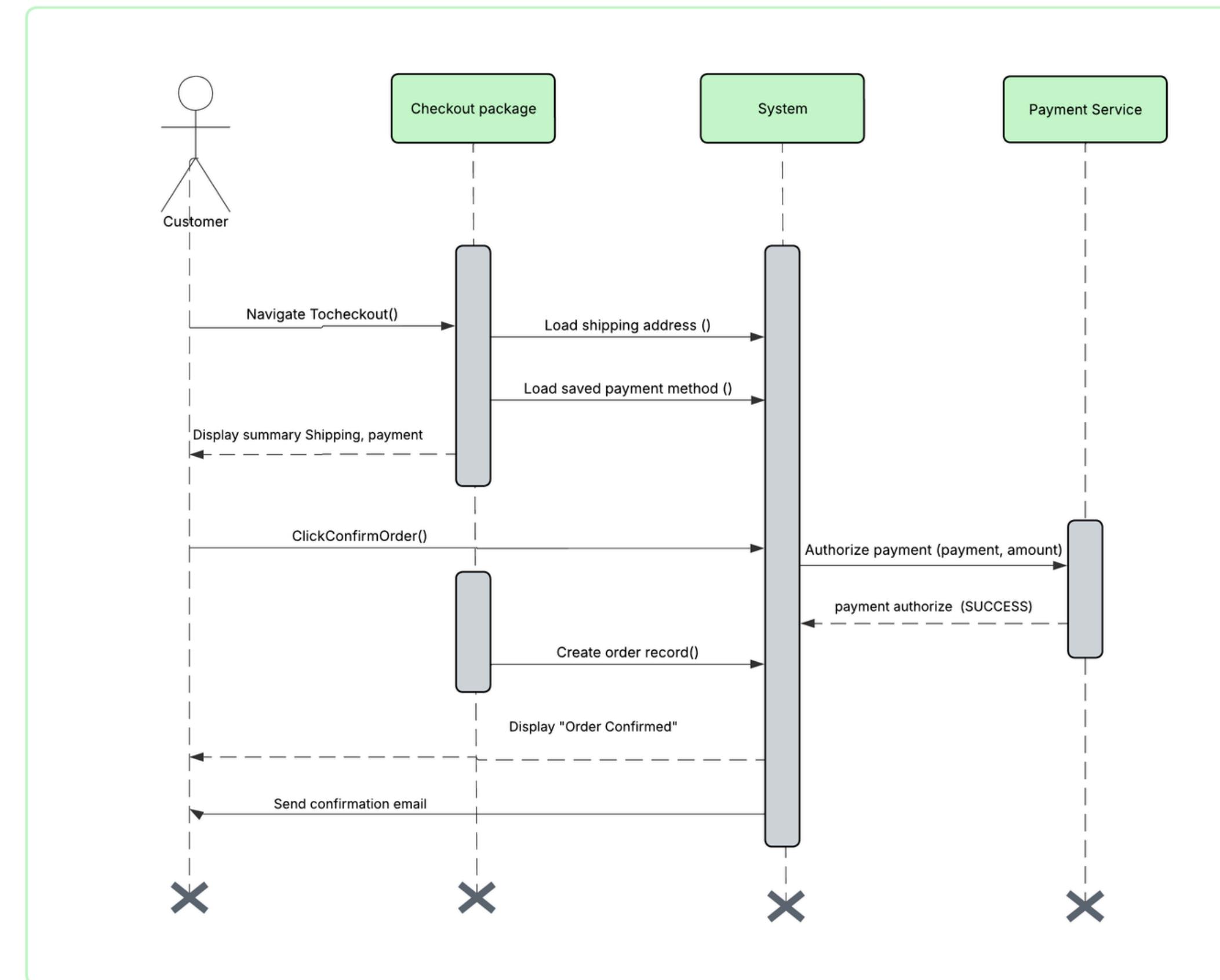
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# Order State-Machin diagram

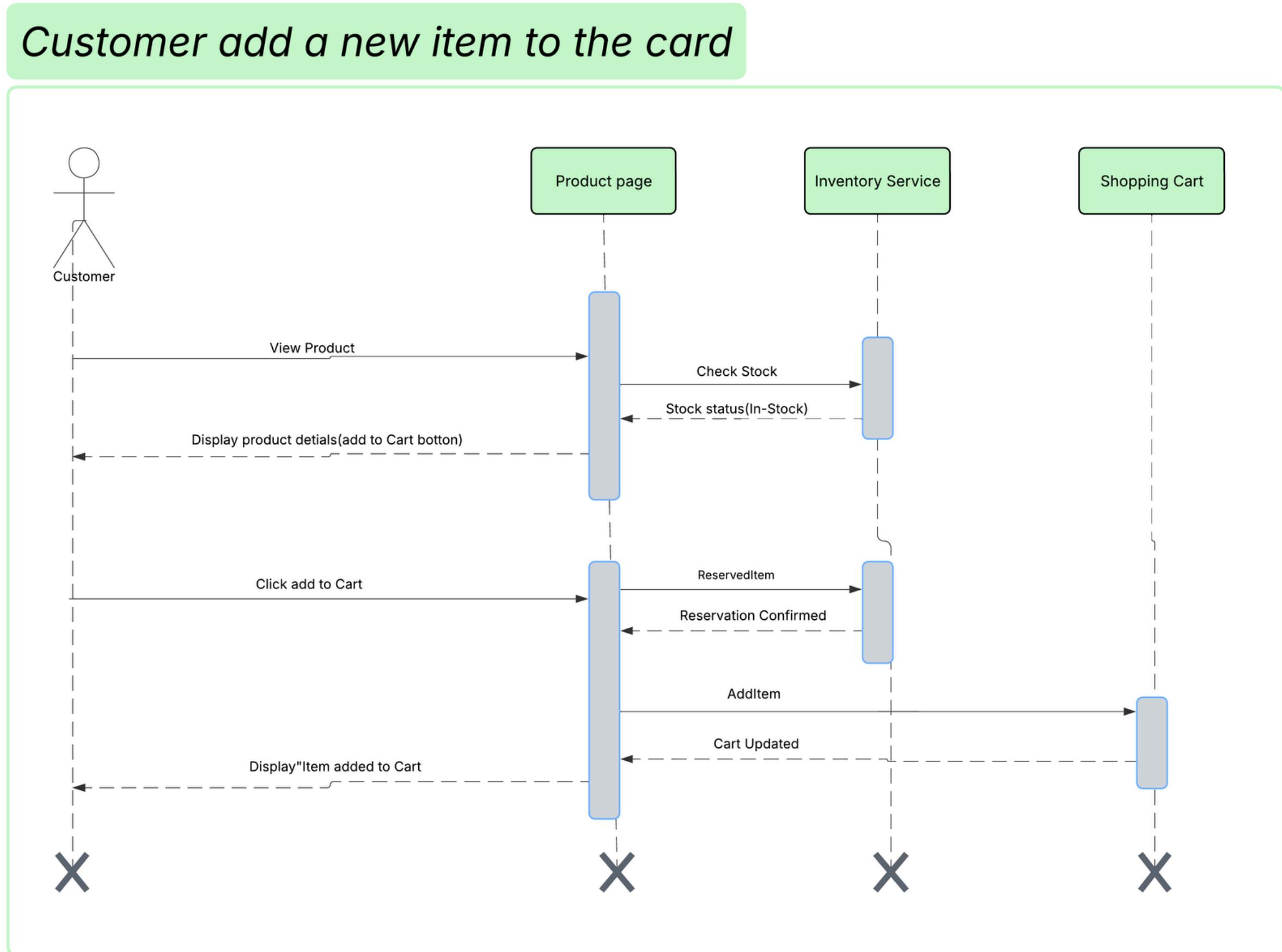


## *Confirmation of shipping and payment*

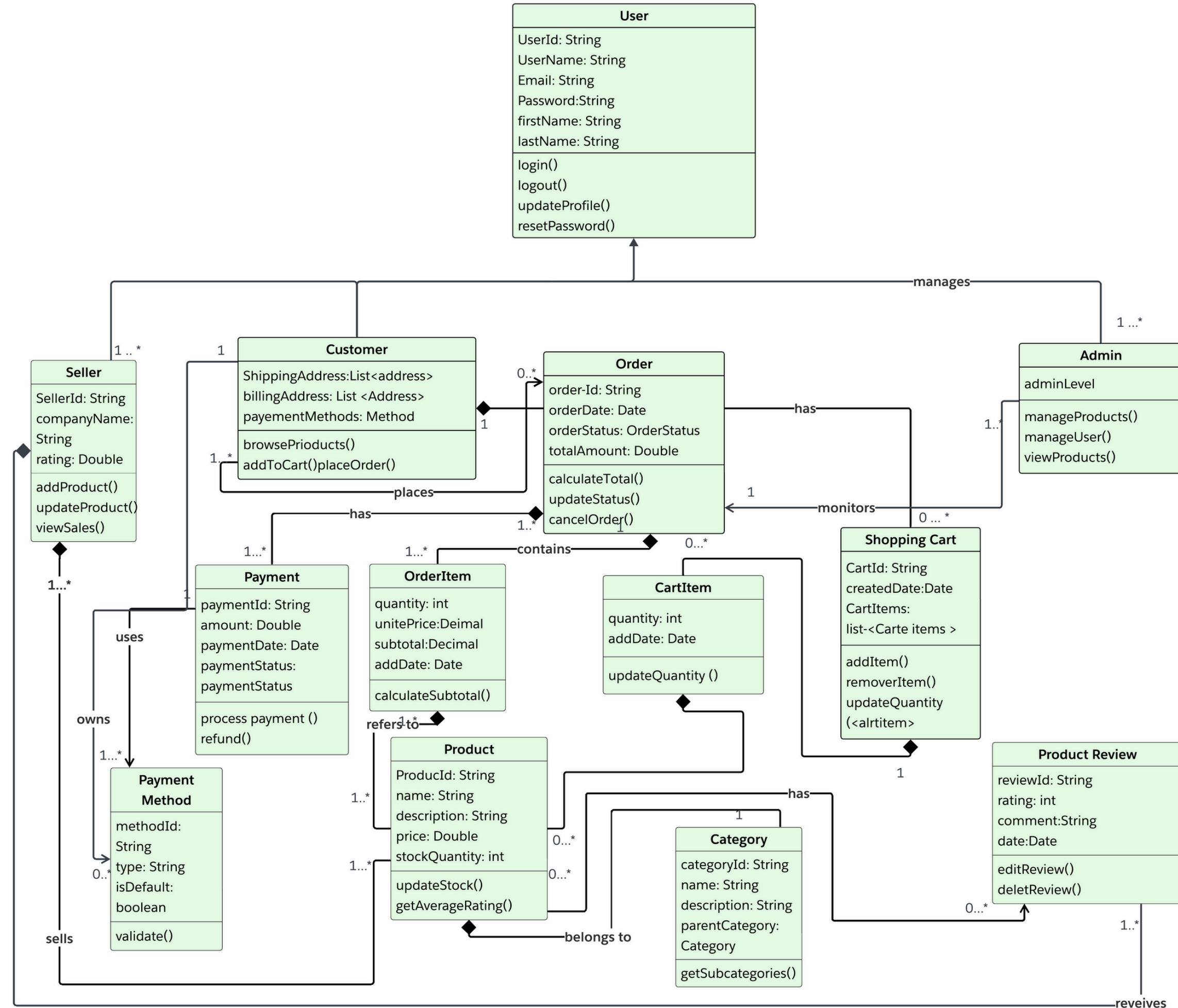
### Confirmation of Shipping and Payment Sequence Diagram



## Customer Add a New Item to the Cart Sequence Diagram



# Class Diagram



# Why us?

01

## Collaborative Shopping Feature

- Our System: Introduces "Shopping Together," allowing users to browse, chat, and manage a shared cart with friends in real-time.
- Amazon Today: Lacks a native, integrated feature for real-time collaborative shopping sessions.



02

## AI-Powered Authenticity Verification

- Our System: Features "TrustGuard," an AI tool that analyzes products to verify their authenticity and explain why an item might be fake or genuine.
- Amazon Today: Relies on customer reviews and seller ratings, but does not offer a direct, AI-driven authenticity check for individual products.

# Thank You



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