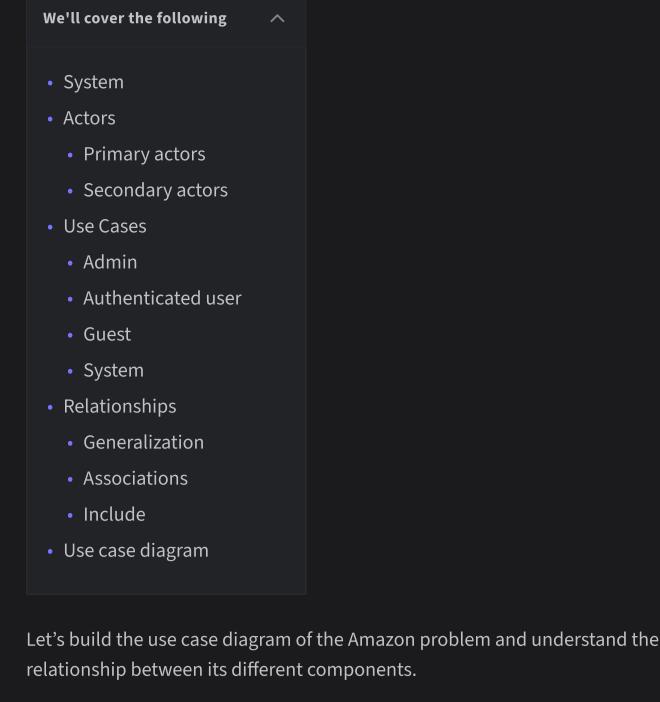
## Use Case Diagram for the Amazon Online **Shopping System**

Learn how to define use cases and create the corresponding use case diagram for the Amazon problem.



case diagram of the system.

**System** 

Our system is the "Amazon shopping system."

• Authenticated user: This actor can search for products using the catalog, place

• Guest: The guest actor can search for products using the catalog, add items to a

First, we'll define the different elements of Amazon, followed by the complete use

### Now, we'll define the main actors of Amazon.

**Actors** 

**Primary actors** 

or cancel orders, and add new products to sell.

shared among different actors in the system.

as well as modify account details

#### shopping cart and update it. However, it needs to become a registered/authenticated member to place an order.

**Use Cases** 

**Secondary actors** 

delete existing product categories. • System: This is responsible for sending out notifications for orders and shipping updates.

• Admin: This can add, remove, or update an account as well as add, modify, or

cases according to their respective interactions with a particular actor.

Note: You will see some use cases occurring multiple times because they are

• Block/Unblock/Update/Delete account: To block, unblock, or delete an account

In this section, we will define the use cases for Amazon. We have listed down the use

### **Admin** • Login/Logout: To log in or log out of your account on Amazon

categories

cart

section

Guest

System

section.

shipment

Generalization

• **Modify product:** To modify the details of any existing product Authenticated user

Add/Modify/Delete product category: To add, modify, or delete product

- Add item to shopping cart: To add an item to a shopping cart • **Update shopping cart:** To update the item quantities present in the shopping
- Add shipping address: To add a shipping address

• Checkout shopping cart: To check out from the shopping cart into the payment

cart

• **Register account:** To register for an account on Amazon

Relationships We describe the relationships between and among actors and their use cases in this

• The "Authenticated User" actor has a generalization relationship with the

• Send order notification: To send a notification of an order after payment

• **Send shipment update notification:** To send a notification of any updates in

The table below shows the association relationship between actors and their use cases.

**Associations** 

**Authenticated User Admin** Guest Login/Logout Register account Register account Send order notif

Search product

Add item to shopping

Update shopping cart

Login/Logout

Update/delete account

Add/modify product

Add item to shopping

Search product

Sys

Send shipment notification

Update shopping cart Checkout shopping cart Add shipping address Add credit card Include • The "Add product" and "Modify product" use cases have an include relationship with the "Update catalog" use case since the catalog needs to be updated as well when any new product is added or the details of an existing product are modified. • The "Make payment" use case has an include relationship with the "Send order notification" use case, since once the payment has been made and verified, only then will the system generate a notification. • The "Cancel order" use case has an include relationship with the "Refund payment" use case, since this is part of the process. Use case diagram

# The use case diagram of Amazon online shopping system

classes and their relationship with each other.

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In the next lesson, we'll discuss the class diagram with a detailed explanation of all

• **Register account:** To register for an account on Amazon • Login/Logout: To log in or log out of your account on Amazon • Update/Delete account: To delete an account or modify their own account details Add/Modify/Delete product: To add a new product or modify the details of any existing product that a customer themselves added for selling. A user can also delete a product that they added for selling • Search product: To search for any particular product based on the given criteria (name or category)

- Add credit card: To pay the order amount via credit card
  - (name or category) • Add item to shopping cart: To add an item to a shopping cart • **Update shopping cart:** To update the item quantities present in the shopping

**Search product:** To search for any particular product based on the given criteria

- - can perform. • We can search for a product by category and by product name. This shows that the "search product" use case has a generalization relationship with the "By

product category catalog" and "By product name catalog" use cases.

"Guest" actor, as an authenticated user can perform all those tasks that a guest

Update/delete account

Block/Unblock account

Add/modify product

Modify product

category

- Here's the use case diagram of Amazon: Amazon-online shopping system Add shipping Block/Unblock (Update Account Delete account address account <<include>> Refund Add product Login/Logout Cancel order payment category Checkout Modify product Modify product Add product shopping cart category -<<include>> 

  </t <<include>> Send order Make payment Admin Update catalog update notification notification <include> Authenticated User Add item to By product Add credit card Search product name catalog shopping cart System Update Register By product shopping cart account category catalog Guest