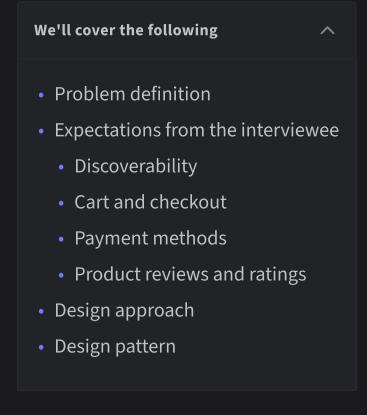
# **Getting Ready: The Amazon Online Shopping System**

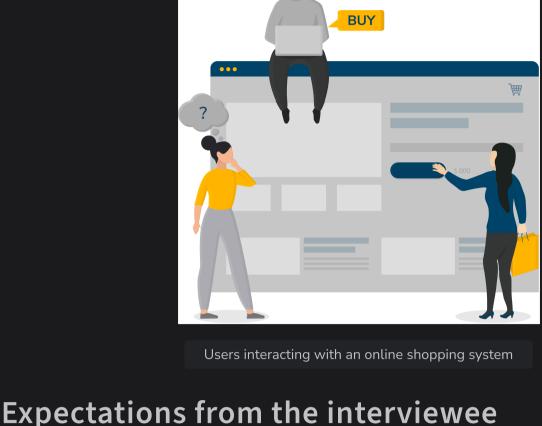
Understand the Amazon problem and learn the questions to further simplify this problem.



## **Amazon** is an online retail platform that allows its users to buy from and sell products

**Problem definition** 

to other users in the system. There are numerous product categories that customers can search and choose from. Products have reviews and ratings that can help customers make a buying decision. Each customer has a shopping cart where they can add products they wish to order. Once customers have added their favorite products to the cart, they can check out the cart and choose a payment method to place their orders. The customers are notified about their order and shipment statuses until the order is delivered. The system also allows users to add products they want to sell.



#### Numerous components are present in the Amazon online shopping system, each with specific constraints and requirements placed on them. The following provides an

overview of some of the main things that the interviewer will want to hear you discuss in more detail during the interview. Discoverability

### that distinguish it from others. You can ask the following questions to know more

about the system: How will the buyer discover a product? • How will the search surface result?

For an online shopping system like Amazon, discoverability is one of the key features

- Cart and checkout
- One of the most significant attributes of the online shopping system is the cart and

#### checkout functionality that it provides to its customers. The interviewer expects the cart and checkout to behave in a certain way. You may ask the interviewer:

innovative checkout semantics like "one-click purchase?" Payment methods

The interviewer expects you to ask questions about the payment methods to figure

• How will the design adhere to such known best practices while also introducing

**Product reviews and ratings** 

• How will the users pay? Will they use credit cards, gift cards, and so on?

out the necessary requirements. You may ask the following questions:

How will the payment method work with the checkout process?

- Product reviews and ratings help customers make informed decisions regarding what to buy. It is important to know how to make this feature an effective part of the system. You can ask the interviewer:
  - When can a user post a review and a rating? How are useful reviews tracked and less useful reviews deprioritized?

Design approach

Design pattern

**(i)** 

 $\leftarrow$  Back

this purpose, we will follow the steps below:

• Identify and design the smallest components first, such as a product.

We will design this online shopping system using the bottom-up design approach. For

Repeat the steps above until we design the whole system that contains multiple

• Use these small components to design bigger components, like a product category that contains different products.

product categories and various users that use the system.

questions like, "Define design patterns."

- During an interview, it is always a good practice to discuss the design patterns that the amazon online shopping system falls under. Stating the design patterns gives the
- advanced concepts of object-oriented design.

Try to answer the following question. If you are not familiar with

design patterns, don't worry! You can learn about them by asking

interviewer a positive impression and shows that the interviewee is well-versed in the

Which design pattern(s) should be used to design an Amazon online shopping system? Please elaborate on your choice(s). H<sub>1</sub> H<sub>2</sub> H<sub>3</sub>

Let's explore the requirements of the online shopping system in the next lesson.

Code for the Hotel Management System Requirements for the Amazon Online Sho...

**Complete**