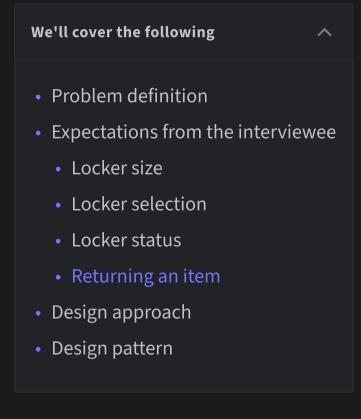
## **Getting Ready: Amazon Locker Service**

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



## Amazon is an online retail platform that allows its customers to place orders and buy

customers.

**Problem definition** 

products online. There are times when the customer is not available in the particular location to pick up the order. In such a case, Amazon Locker can be one of the most secure way of delivery.

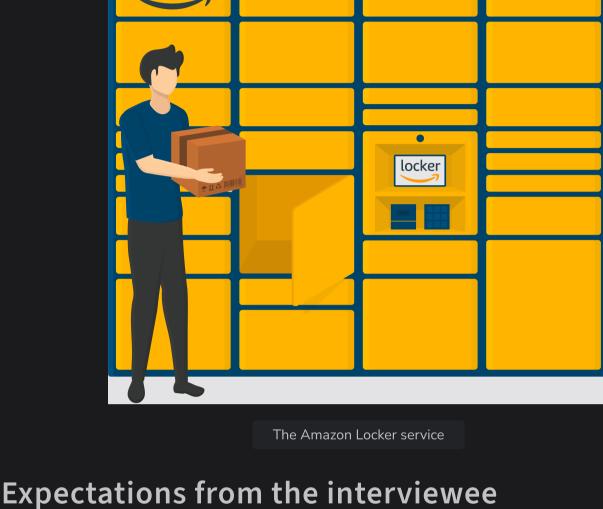
Amazon Locker is also known as Amazon Hub or Amazon Hub Locker. It is a fully

automated package delivery service provided by Amazon. Customers can choose any

locker location as their delivery address and pick up the package from that location at no additional cost. In particular, when a customer places an order and chooses to get their item delivered to locker service, the system suggests the nearest available locker based on preferences. The order is packaged and placed in the locker. The customer gets the notification containing the code to open the locker, and they can pick up the package using that code within a valid amount of time. This is how the Amazon Locker service functions.

locker

This problem is applicable to any retailer who wants to deliver goods safely to their



## some of the main expectations that the interviewer will want to hear you discuss in more detail during the interview.

Locker size

Every locker is of a specific size in the Amazon Locker system. The interviewer expects you to ask questions listed below:

The Amazon Locker service consists of multiple components. Each component has its

own functionality and constraints. The following section provides an overview of

## Will every locker be of the same size?Is there any size restriction on an item that can be kept in the locker?

Locker selection

about the locker status:

Returning an item

The most significant part of the Amazon Locker service is the selection of the locker.

The system has to make sure that more than one customer should not be able to

access a locker at a single time. The interviewer expects you to ask the questions

 How will the system make sure that multiple customers do not get the same locker?

Can a customer get two lockers for different orders at the same time?

listed below to identify how the system will work in such situations:

him a locker based on availability?

locker to the customer?

Locker status

Since this problem revolves around the locker, you may ask the questions listed below

Will the system keep in mind the locker and package sizes while assigning the

• Will the customer choose the locker of his own choice, or will the system assign

Is there any time constraint on the package that can be kept in the locker?
What will happen if the customer does not come to pick up his package within the valid time period?

Similar to the order delivery process, the item can also be returned through the

• How will the locker be assigned to the customer while returning an item?

Amazon Locker service. Therefore, you may ask the questions listed below:
Can the customer return an item through the Amazon Locker service?
If yes, will they get the same locker from which they picked up the item?

We will design this Amazon Locker service using the bottom-up design approach. For

• Use these small components to design bigger components, such as the locker

this purpose, we will follow the steps below:
Identify and design the simple components first, like the locker and item.

Design pattern

**(i)** 

H<sub>1</sub> H<sub>2</sub> H<sub>3</sub>

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Code of Library Management System

advanced concepts of object-oriented design.

Design approach

respectively.Repeat the steps above until we design the whole system.

location and order that can be composed of multiple lockers and items,

During an interview, it is always a good practice to discuss the design patterns that the amazon locker system falls under. Stating the design patterns gives the

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

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

design patterns, don't worry! You can learn about them by asking questions like, "Define design patterns."

Which design pattern(s) should be used to design an Amazon Locker service? Kindly elaborate on your choice(s).

Please enter the correct design pattern(s)

Let's explore the requirements of the Amazon Locker service in the next lesson.

Complete

Next  $\rightarrow$ 

Requirements for the Amazon Locker Servi...