

## Assignment - Rest APIs using Spring web and Spring Data JPA

Q1. You have to design CRUD APIs for an e-commerce platform keeping an item into contention i.e

Create/Add item API - This API should be responsible for adding an item into the system

Update item API - This API should be responsible for updating an item's info for example: price of an item

Delete item API - This API should be responsible for removing / deleting an item from the system

Get item API - This API should return the details of an item

### **Very Important**

List items API - This API should be a paginated and filtered API which will return not all the items of the system but some items in a paginated fashion. Just like what happens when you scroll your feed on fb / insta / linkedin or when you scroll through the items in an e-commerce website

Also this API need to support certain filters like for example return all the items (in a paginated fashion) which are of certain category etc.

Bonus points

Design APIs which can do the order management part as well i.e

CREATE order API - Important thing is how the item's status etc. will change

GET order details API

UPDATE order details API

CANCEL order API