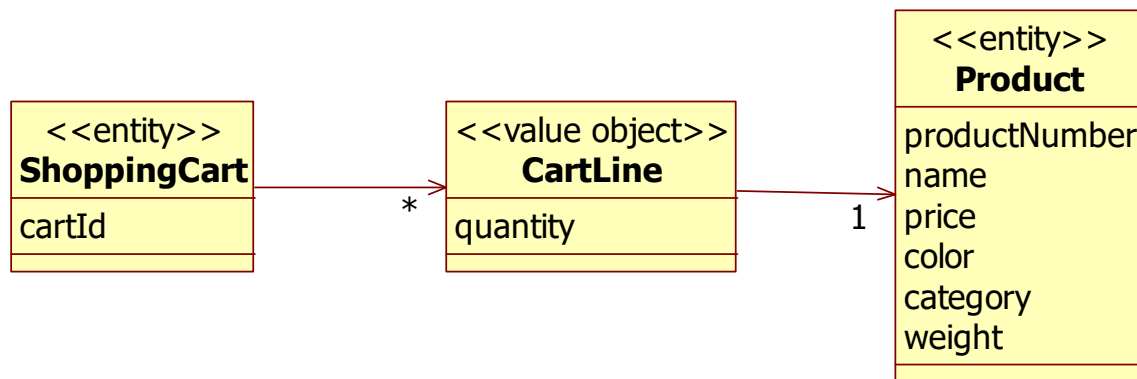


Suppose we have an application with the following domain classes:



The application should support the following requirements:

1. We should be able to add new products to the application. You should be able to remove and update existing products. You should also be able to get product information given a `productNumber` and you should be able to search products on name or category.
2. We should be able to add and remove products to and from the shoppingcart
3. We should also be able to get the shoppingcart so we can show it on the UI.

It is your job to write the interface for this application. Write in Java the interface for this application. (No implementation, only the interface). Make sure your solution follows the best practices we learned in this course.