

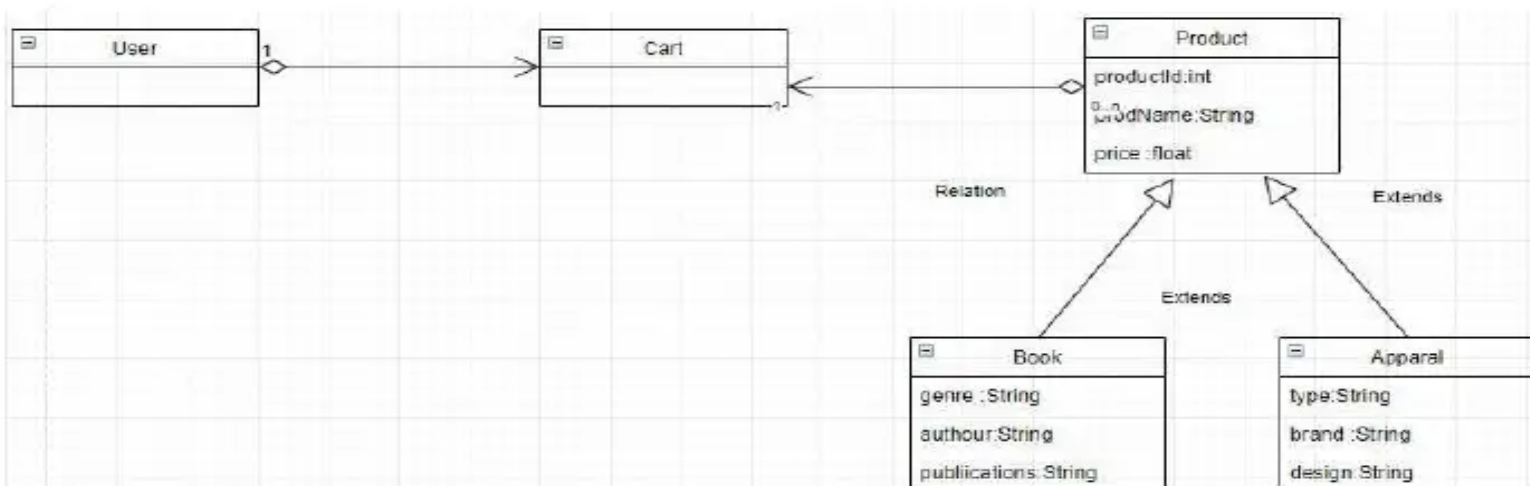
## Assignment- Hibernate GLOMart Shopping Application

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### Problem Statement

The main objective of the **GLO Mart Shopping Application** is to manage the cart and product details. User can add, update, remove and view the products in the cart. While displaying the cart contents .the system has to display all the items in the cart and total amount to be paid by the user.

Entity classes has to be designed as per the diagram below



## Cardinality relationship between entities

- ❖ one to One mapping between User class and Cart class
- ❖ One to Many mapping between Cart class and Product class
- ❖ Each product can be categorized by the sub-class of Product class

## Functional Requirements

### 1. Managing the Life cycle of Entities

- ❖ In this Shopping cart application user need to manage the lifecycle of only Cart Entities, So no need to **add, delete, modify Product entities**.
- ❖ User can Search the Product by ID, or by product Name or by product Category

### 2. Adding a Product entity into a cart

- ❖ User can add the same product multiple times in the cart. If the same product is added more than once just need to increment the quantity by 1.

### 3. Remove a Product entity from a cart

- ❖ User can remove a specific product and remove all products from the cart.

## 4. Updating the Cart

- ❖ User can update the quantity of the products in the cart. Quantity should not be negative. If the user updated the quantity as zero the product has to be removed from the cart.

## 5. Viewing the Cart

- ❖ User can view the product any time. The application has to display the total amount to be paid by the user.

## 6. Hibernate and Spring module

- ❖ The life cycle of entity classes completely managed by Hibernate framework,
- ❖ Spring Boot to be used to bootstrap the application Spring data JPA to be used
- ❖ Spring Transaction management to be used.

ORM - Hibernate

Database - MySQL/Postgres