

**Homework task:**

Create a Java application for quick book storage, update, access and total price calculation.

- A client can use a REST call to put a book into the system providing its name, author, barcode, quantity, price per unit.
- A client can use a REST call to retrieve book's information from a system by providing its barcode.
- A client can use a REST call to update any of its detail providing the barcode and updated field information.
- A client can use a REST call to calculate the total price of specific books in the system given the barcode (including antique books and science journals).
- A client can use a REST call to request a list of all barcodes for the books in stock grouped by quantity
  - Optional – barcodes for each group sorted by total price

Total price = Quantity \* Price

A client also wants to store and access antique books in his system. They are just like other books, but also have a release year parameter (no more recent than 1900).

Total Price = Quantity \* Price \* (Current Year – Release Year) / 10.

A client also wants to store and access science journals in his system. They are just like other books, but also have a science index (int between 1 – 10).

Total Price = Quantity \* Price \* Science Index.

Utilise OOP concepts. There should be a base class Book.

Avoid saving data to external database – saving to file(s) or embedded database is OK.

If you do not know / care which framework to use – please utilise Java EE concepts.