

Foundations of Java Programming and Core Java Week- 3 Graded Project [20 Marks]

Topics Covered:

Core Java II

Domain:

Full Stack Foundation

Objective:

You are assigned to write a program for the BookStore management system.

Problem Statement:

Magic of Books is a Book store which deals with book. All the inventory of the store is been managed manualy. But now as store is expending its becoming difficult to manage it manualy. Books store wants to have a book management system with following features.

User Stories:

- 1. As an Admin, I can add a new book
- 2. As an Admin, I can delete a book
- 3. As an Admin, I can update a book
- 4. As an Admin, I can display all the books
- 5. As an Admin, I can see the total count of the books
- 6. As an Admin, I can see the all the books under Autobiography genre
- 7. As an Admin, I can arrange the book in the following order
- price low to high
- price high to low
- best selling

Instructions:

1. The book class should have following attributes:-

Name



Price

Genre

noOfCopyesSold

- 2. Use map to store books in key value paire where key is book Id and value is Book object
- 3. Use generic as and when possible to restrict the collection.
- 4. Create book as a pojo.
- 5. Create MagicOfBooks class to define all the funcanility related methods.
- 6. Use custome exceptions to share the proper error message to the user when the user uses the application
- 7. Zero marks will be awaded if the code throws compile time error. Partial marking will be done only if the code has no compile time error

Boilerplate:

Click here to get the boilerplate

https://gitlab.com/hcl45/assignments/week4

Grading Rubrics:

Implementation	Minimum Marks
Add a Book	2
Delete a Book	2
Update a Book	2
Display a Book	2
Book Count	2
Autobiography Books	2
Price low to high	1
Price high to low	1
Best Selling	1
Classes creation	1
Use of Map	1
Use of Generics	1
Custom Exception	2