

Java SE 8 Programming Language

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	CODE:	
	TYPE:	
	LOC:	
	DURATION:	180 MINUTES

Long Assignment 1

Objectives:

Working Environments

- JDK 1.8
- NetBeans

Assignment Descriptions

Create a Java consoled based application to manage publications in a library. In the library, there are two kinds of publication: book and magazine.

Book :*isbn* (international standard book number), title, *author* (a set of author name), *price*, *description*.

Magazine is similar to Book class, and has more attributes *public_date*

Validation Rules

- The *isbn* is a unique numeric commercial book identifier. The length of 'isbn' is in the 10-17 digit number. Ex: 6783161486.
- Title cannot be blank
- Prices is greater than 10

Functional Requirements

1. The program must have a function to add a new book.
2. The program must have a function to add a new magazine.
3. The program must have a function to display the list of all books and magazines that have the same publication year and publisher.
4. The program must have a function to add an author to a specific book, if the author existed, the program should print a message "Author existed", and print "Add successfully".
5. The program must have a function to display the list of top 10 magazines sort by created date
6. The program must provide functions to:
 - search book by isbn
 - search book by authorSearch results should be sorted by isbn.

You must override **toString()** method in Book/Magazine class to print all of the information related to Book/Magazine.

User Interface Requirements

Create a new class named **LibraryManagement** that contains a main() method to display user interface.

The main screen allows user to select the following functions:

Menu

===== LIBRARY MANAGEMENT SYSTEM =====

1. Add a book
2. Add a magazine
3. Display books and magazines
4. Display top 10 of magazines
5. Search book by (isbn, author)

Please choose function you'd like to do:

Storage Data

- The user inputs data from the keyboard.
- Data is stored in Database
- Output data is displayed on the console.

-- THE END --