Develop Library management OOP application with following components and requirements

1. Create MVC console application in NetBean:

- a. Define class Book with following attributes and methods: (2 marks)
 - + BookID, Book Title, Author, Year published
 - + Constructors, get/set(), toString()
 - + implement method for Comparable
- b. Define class Library with following attributes and methods: (5 marks)
 - + List of Book
 - + Read text file to load data for Library lib.txt is provided (1 mark)
 - + Search book by different criteria (1 mark)
 - + Print any List of Book (1 mark)
 - + Add new Book from console (1 mark)
- c. Develop Library Management class for application (4 marks)
 - + Application menu for application include: Display all books, Book Search, Add new Book (1 mark)

Hint: An abstract Menu class is provided for use in the application. Override method excecute()

+ Method for seaching book with searching menu (2 marks)

2. Technical requirements:

- + Create package **model** for Book and Library class.
- + Create package **view** for Menu and LibraryManagement class.
- + User interface as sample images below

Library Management
1.List all books
2.Search book
3.Add new Book
4.Exit
Enter selection

When choose search book:

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Book Searching

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1.Find by BookID

2.Find by Title

3.Find by Author

4.Find by Year of publishing

Enter selection..3
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Enter Author :Cays
List of Books
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Book{B0001 - Java Programming - Cays Horstman - 2020}
Book{B0003 - NodeJS for Beginner - Cays Horstman - 2019}
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Total : 2 books.
```

Notice: Student must strictly follow all requirements as describe above for marking,

Any modification the requirement detail is not allowed and will get no mark!