

Coding Assignment – Book Ledger

Write a program that reads a collection of books from a data source containing the following properties:

- Author
- Genre
- Number of pages
- Year of publication
- Overall rating (from 1 to 5 stars)
- Read or not

REST API

- GET a list of books and display them (client-side) items should be returned sorted by date.
- POST a new book to the list in backend. This needs to be done via a simple form on the client side. Form fields needs to have the correct validation on them (required, min length, type).

Client App

- Presents the book list
- Offers a form to add a new book with the following fields
 - **Author**, needs to be an <input> **text only**
 - **Genre**, needs to be an <input> **text only**
 - **Number of pages**, needs to be an <input> **numbers only**
 - **Year of publication**, needs to be an <input> **numbers only**
 - **Overall rating** (from 1 to 5 stars), needs to be a <select> **choices 1 to 5**
 - **Read or not**, needs to be an <input> **checkbox**

Basic Requirements

- Written in Java.
- Uses Maven to load any dependencies.
- Uses REST to pass data between the server and the front-end.
- Is a web application.
- Deployed to GitHub.
- Contains at least 1 unit test.

Extra Credit

- Use of Hibernate/JPA
- Use of Spring (Boot, MVC, Data)
- Use of AngularJS

Evaluation Criteria

- Correctness and adherence to requirements
- Layout and user experience
- Application design following OOP principles
- Appropriate test coverage
- Leverage of existing frameworks and reusability of code
- Good performance

Provide us the URL for your git repository. There is no time limit to complete your assignment. Take as long as you want. If you have any questions, don't hesitate to contact us.