Bookstore API

Level: middle-senior

Objective

Your assignment is to implement a bookstore REST API using Java or Python and any framework.

Brief

Lohgarra, a Wookie from Kashyyyk, has a great idea. She wants to build a marketplace that allows her and her friends to self-publish their adventures and sell them online to other Wookies. The profits would then be collected and donated to purchase medical supplies for an impoverished Ewok settlement.

Tasks

- Implement assignment using:
  - Language: **Java or Python**
  - Framework: **any**
- Implement a REST API returning JSON or XML based on the Content-Type header
- Implement a custom user model with a "author pseudonym" field
- Implement a book model. Each book should have a title, description, author (your custom user model), cover image and price
  - Choose the data type for each field that makes the most sense
- Provide an endpoint to authenticate with the API using username, password (you may implement a token-authorization model, or something more simple if you like)
- Implement REST endpoints for the /books resource
  - No authentication required
  - Allows only GET (List/Detail) operations
  - Make the List resource searchable with query parameters
- Provide REST resources for the authenticated user
  - Implement the typical CRUD operations for this resource
  - Implement an endpoint to unpublish a book (DELETE)
- Implement API tests for some endpoints or unit tests for some logic in your application

Evaluation Criteria

- **Java / Python** best practices
- If you are using a framework make sure best practices are followed for models, configuration and tests
- Write tests, comment your code
- Make sure that users may only unpublish their own books
- Bonus: Make sure the user *Darth Vader* is unable to publish his work on Wookie Books

Deploy

Please feel free to deploy your code as you like: you may give us a link on a repo (github, bitbucket) with your code pushed, or even send us an archive with sources.

Thanks and good luck!

The CANDR Team