06 Additional API

## Description

Besides the functionalities in the context of the given front-end (previous stories), additional functionalities need to be provided.

Below you find the API of these functionalities (URL, request type, input, output, acceptance criteria).

When a Book object is returned in the output, it has always following fields: “id” (long), “title” (String), “numberInStock” (int), “price” (double), “inColor” (Boolean), “priceInDollar” (double)

**Find book with given id**

|  |  |
| --- | --- |
| Request | GET |
| URL | <http://localhost:8080/api/book/search?id=4> |
| Input | Id (int) |
| Output | A Book object (JSON) |
| Acceptance Criteria | The book with the given id is returned  I If the book does not exist: returns nothing |

**Delete book with given id**

|  |  |
| --- | --- |
| Request | DELETE |
| URL | <http://localhost:8080/api/book/remove?id=1> |
| Input | id (int) |
| Output | A Book object (JSON) |
| Acceptance Criteria | The book with the given id is removed from the library.  Returns the removed book if it exists |

**Find books with price and number in stock greater than**

|  |  |
| --- | --- |
| Request | GET |
| URL | [http://localhost:8080/api/book/search/price/{price}/numberInStock/{numberInStock}](http://localhost:8080/api/book/search/price/%7bprice%7d/numberInStock/%7bnumberInStock%7d) |
| Input | Price (double)  numberInStock(int) |
| Output | A JSON array of books |
| Acceptance Criteria | Returns all books with given price and numberInStock greater than the given number. |

**Find books not in color with price less than**

|  |  |
| --- | --- |
| Request | GET |
| URL | [http://localhost:8080/api/book/search/notInColor/priceLessThan/{price}](http://localhost:8080/api/book/search/notInColor/priceLessThan/%7bprice%7d) |
| Input | Price (double) |
| Output | A JSON array of books |
| Acceptance Criteria | Returns all books that are not in color and have price less than the given price. |

**Order books**

|  |  |
| --- | --- |
| Request | GET |
| URL | <http://localhost:8080/api/book/all?order=desc&column=price> |
| Input | Order: desc or incr  Column: price, numberInStock, title |
| Output | A JSON array of books |
| Acceptance Criteria | Returns all books ordered by given column in given order (descending or increasing)  The URL in the example returns all books ordered by descending price |