

Assessment 6

Make the Book Store App functionality accessible via Web API.

getBook(name)	Returns the book object if found otherwise "Not found" exception.						
getBooksByPageCount(pageCount)	Returns the books with pages \geq the pageCount parameters. E.g. Calling the function with pageCount=200 should return all the books with pages \geq 200.						
getBooksByAuthor(author)	Returns all the books authored by that specific author. Note: some books have more than one author. You should consider those too and return them as well.						
getBooksbyCatagory(category)	Returns the books for a particular category. E.g. Calling the function with <i>category = Programming</i> should return all the programming books.						
getAuthorsBookCount()	Returns a map that contains the author name and the number of books they have authored. E.g. <table border="1"><thead><tr><th>Author Name</th><th>Book Count</th></tr></thead><tbody><tr><td>James</td><td>2</td></tr><tr><td>Ali</td><td>4</td></tr></tbody></table>	Author Name	Book Count	James	2	Ali	4
Author Name	Book Count						
James	2						
Ali	4						

Develop Web API to make the Book App functionality accessible via the web:

- Create **app.js** file, import express package, instantiate an express app, configure it then start it at port 8090.
- Create a **book-service.js** file and implement **BookService** class with methods to handle the requests listed in the table below. The handlers should use the provided methods from the **BookRepository** class.
- Create a **book-router.js** file and implement handlers for the Urls listed in the table below. The Url handlers should use the methods from the BookService class.

HTTP Verb	Url	Functionality
Get	/api/books?name=	Returns the book by name
Get	/api/books?pageCount=	Returns the books with pages \geq the pageCount parameters. E.g. Calling the function with pageCount=200 should return all the books with pages \geq 200.

Get	/api/books?author=	Returns all the books authored by that specific author.						
Get	/api/books?category=	Returns the books for a particular category. E.g. Calling the function with <i>category = Programming</i> should return all the programming books.						
Get	/api/books/summary	Returns a map that contains the author name and the number of books they have authored. E.g. <table><tr><th>Author Name</th><th>Book Count</th></tr><tr><td>James</td><td>2</td></tr><tr><td>Ali</td><td>4</td></tr></table>	Author Name	Book Count	James	2	Ali	4
Author Name	Book Count							
James	2							
Ali	4							
Post	/api/books/	Adds a book						
Put	/api/books/:isbn	Updates a book						
Delete	/api/books/:isbn	Deletes a book						

1. Test the Web API using Postman.
2. Create a **book-service.spec.js** file. Test the Web API using chai-http.

After you complete the lab, fill in the **TestingDoc-Grading-Sheet.docx** and save it inside **Assessment 6-Web API** folder. Sync your repository to push your work to Github.