

Manual Test Plan for sp21-CS242-assignment 2.2

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Environment Setup

- **Javascript**
- **HTML**
- **D3 and svg**
- **Eclipse - 4.20.0**
- **Windows 10**

Test - Home Page Route

Test 1.1

← → ↺ 127.0.0.1:5000

Apps Assignments - CS 2...

Enter Book ID to Get:

Get Book

Enter Author ID to Get:

Get Author

Enter a Query to Get:

Get Query

Enter a Book ID to update:

Enter a JSON object with fields to update:

Put a Book

Enter an Author ID to update:

Enter a JSON object with fields to update:

@Test 1.1-Home Page Route Layout

- The home page url supports all API Requests that were implemented from prior weeks and have buttons to execute each command.

Test 1.2 - GET Book Request

book_url : <https://www.goodreads.com/book/show/3735293-clean-code>
title : Clean Code: A Handbook of Agile Software Craftsmanship
book_id : 3735293
ISBN : 9780132350884
author_url : https://www.goodreads.com/author/show/45372.Robert_C_Martin
author : Robert C. Martin
rating : 4.40
rating_count : 123
review_count : 1036
image_url : https://i.gr-assets.com/images/S/compressed.photo.goodreads.com/books/1436202607l/3735293_SX318_.jpg
book_id : 3735293
similar_book : https://www.goodreads.com/book/show/4099.The_Pragmatic_Programmer
,
similar_book : https://www.goodreads.com/book/show/85009.Design_Patterns
,
similar_book : <https://www.goodreads.com/book/show/44936.Refactoring>
,
similar_book : https://www.goodreads.com/book/show/58128.Head_First_Design_Patterns
,
similar_book : <https://www.goodreads.com/book/show/34927404-effective-java>
,
similar_book : https://www.goodreads.com/book/show/387190.Test_Driven_Development
,
similar_book : https://www.goodreads.com/book/show/4845.Code_Complete
,
similar_book : https://www.goodreads.com/book/show/179133.Domain_Driven_Design

@Test 1.2 :

- The GET Book request will print out the object that was requested at the bottom of the page if successful based on the given book ID.
- If a valid request was not made due to any invalid inputs or any other reason, an error will be thrown to the log report at the bottom of the screen for the user.

Test 1.3 - GET Author Request

```
name : Andy Hunt
author_url : https://www.goodreads.com/author/show/2815.Andy_Hunt
author_id : 2815
image_url : https://images.gr-assets.com/authors/1215370372p5/2815.jpg
rating : 4.23
rating_count : 22235
review_count : 1306
related_author : https://www.goodreads.com/author/show/2815.Andy_Hunt
,
related_author : https://www.goodreads.com/author/show/302.Chad_Fowler
,
related_author : https://www.goodreads.com/author/show/3307.Steve_McConnell
,
related_author : https://www.goodreads.com/author/show/25169.Charles_Petzold
,
related_author : https://www.goodreads.com/author/show/25201.Michael_C_Feathers
,
related_author : https://www.goodreads.com/author/show/25215.Martin_Fowler
,
related_author : https://www.goodreads.com/author/show/32731.Eric_Freeman
,
related_author : https://www.goodreads.com/author/show/45372.Robert_C_Martin
```

@Test 1.3 :

- **The GET Author request will print out the object that was requested at the bottom of the page if successful based on the given author ID.**
- **If a valid request was not made due to any invalid inputs or any other reason, an error will be thrown to the log report at the bottom of the screen for the user.**

Test 1.4 - GET Query Request

```
name : Andy Hunt
author_url : https://www.goodreads.com/author/show/2815.Andy_Hunt
author_id : 2815
image_url : https://images.gr-assets.com/authors/1215370372p5/2815.jpg
rating : 4.23
rating_count : 22235
review_count : 1306
related_author : https://www.goodreads.com/author/show/2815.Andy_Hunt
,
related_author : https://www.goodreads.com/author/show/302.Chad_Fowler
,
related_author : https://www.goodreads.com/author/show/3307.Steve_McConnell
,
related_author : https://www.goodreads.com/author/show/25169.Charles_Petzold
,
related_author : https://www.goodreads.com/author/show/25201.Michael_C_Feathers
,
related_author : https://www.goodreads.com/author/show/25215.Martin_Fowler
,
related_author : https://www.goodreads.com/author/show/32731.Eric_Freeman
,
related_author : https://www.goodreads.com/author/show/45372.Robert_C_Martin
```

@Test 1.4 :

- **The GET Query request will print out the object that was requested at the bottom of the page if successful based on the given query string.**
- **If a valid request was not made due to any invalid inputs or any other reason, an error will be thrown to the log report at the bottom of the screen for the user.**

Test 1-5: PUT Book Request

Enter a Book ID to update:

3735293

Enter a JSON object with fields to update:

{"ISBN":"43211234"}

Put a Book

@Test 1-5:

- If a valid Book Id is given and a valid json object with fields to update are given, the database will update the information specified and the log at the bottom of the page will output success.

Test 1-6: PUT Author Request

Enter an Author ID to update:

2815

Enter a JSON object with fields to update:

{"image_url":"example.com"}

Put an Author

@Test 1-6:

- If a valid Author Id is given and a valid json object with fields to update are given, the database will update the information specified and the log at the bottom of the page will output success.

Test 1-7: POST Book Request

Enter a Book JSON Object to insert:

```
[{"book_url": "dfasdf", "title": "vasdvdsaf", "book_id": "3314", "ISBN": "321314", "author_url": "41312df", "author": "M12313", "rating": "12313", "rating_count": "7123420", "review_co
```

Insert a Book

@Test 1-7:

- If a valid Book json object with all the required fields for a book is given, the database will insert the information specified and the log at the bottom of the page will output success.

Test 1-7: POST Author Request

Enter an Author JSON Object to insert:

```
[{"name": "bob", "author_url": "ht32131", "author_id": "4112", "rating": "5", "rating_count": "312312", "review_count": "32231", "image_url": "https://jo231t.com", "related_authors": "1
```

Insert an Author

Enter a Book ID to Delete:

@Test 1-7:

- If a valid Book json object with all the required fields for a book is given, the database will insert the information specified and the log at the bottom of the page will output success.

Test 1-8 : DELETE Book Request

Enter a Book ID to Delete:

3314

Delete a Book

@Test 1-8:

- If a valid Book ID is given, the database will remove the entry that contains the ID the user has input.
- If the ID is invalid or the request failed, the log will output a delete failure at the bottom of the page.

Test 1-8 : DELETE Author Request

Enter an Author ID to Delete:

2815

Delete an Author

@Test 1-8:

- If a valid Author ID is given, the database will remove the entry that contains the ID the user has input.
- If the ID is invalid or the request failed, the log will output a delete failure at the bottom of the page.

Test - Top K Rated Books

Test 1-9

← → ↻ 127.0.0.1:5000/vis/top-books

Apps Assignments - CS 2...

Get The Top K Rated Books

Enter K number of books to rate:

3

Visualize

@Test 1-9: Top K Rated Books Home Page

- The url with path /vis/top-books contains a text field for user input to enter a number of books to visualize into a graph.
- The graph will only show if the user input is \leq total number of books in the database at the time of the request.

Test 1-10

Get The Top K Rated Books

Enter K number of books to rate:

3

Visualize

Book : 3735293

Book : 4099

Book : 3314

@Test 1-10 : Visualization

- If a user inputs a valid number of books to rate and clicks the Visualize button, the graph depicting the top rated books in descending order is displayed.
- Each entry has its own book ID and contains a unique coloring related to its rating score.

Test - Top K Rated Authors

Test 1-11

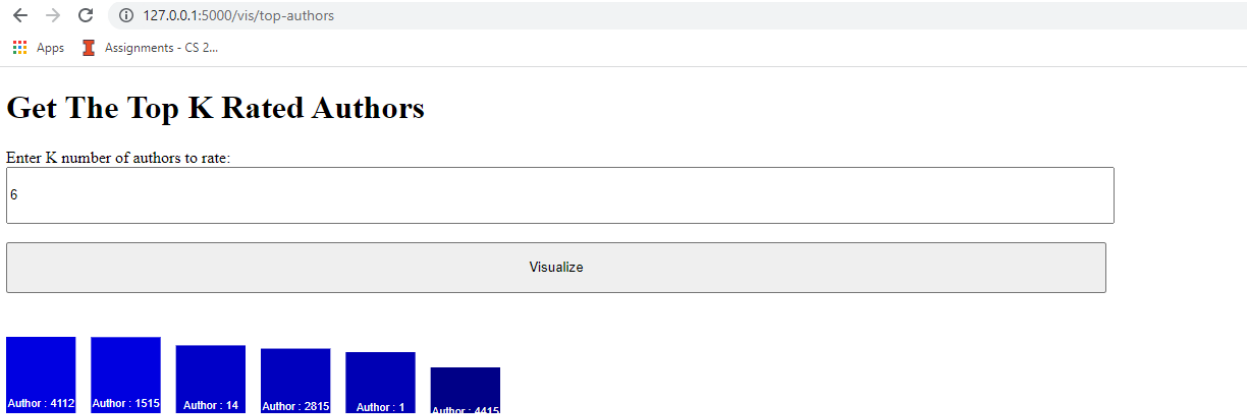
Get The Top K Rated Authors

Enter K number of authors to rate:

@Test 1-11: Top K Rated Authors Home Page

- The url with path /vis/top-authors contains a text field for user input to enter a number of authors to visualize into a graph.
- The graph will only show if the user input is \leq total number of books in the database at the time of the request.

Test 1-11



@Test 1-11 : Visualization

- If a user inputs a valid number of authors to rate and clicks the Visualize button, the graph depicting the top rated authors in descending order is displayed.
- Each entry has its own author ID and contains a unique coloring related to its rating score.