Manual Test Plan

Test Version

Branch: assignment-2.2

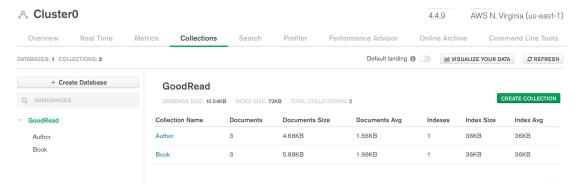
Environment Setup & Configuration

For front-end app:

- Node.js with version higher than 14.18 required
- Ensure package.json exist in good-read-app folder
- To install all dependencies, run "npm install" in good-read-app folder
- Google Chrome is preferred browser for test

For back-end server:

- Python 3.6 or above is required
- Use pip install to ensure following packages are installed: dotenv, pymongo, certifi, argparse,unittest, bs4, requests
- IDE: Pycharm
- Sign up a mongodb account and create a cluster for cloud database: Click name of cluster and create a database in collections tab like below:



Create .env file and put connection link including your password and user name inside like below:

MONGODB_KEY=mongodb+srv://<user name>:<password >@cluster0.cnswy.mongodb.net/myFirstDatabase?retryWrites=true&w=majority json_file folder should exist in src folder which includes valid json file example for this scraper.

Usage

For front-end app:

- Type "npm start" to start app in browser(http://localhost:3000/api)
- Type "npm run build" to build for production

For back-end server:

Type python web-api.py to start server(http://127.0.0.1:5000/)

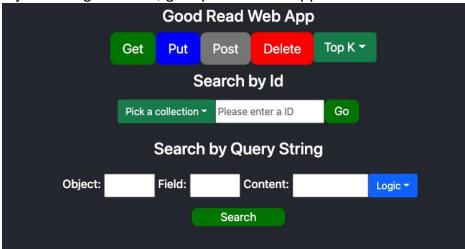
Test Process

(1) Test mode button

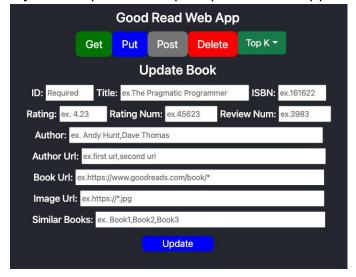
After app start in server, following UI page should appear:

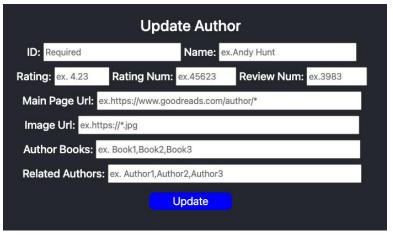


If you click get button, get api UI should appear:

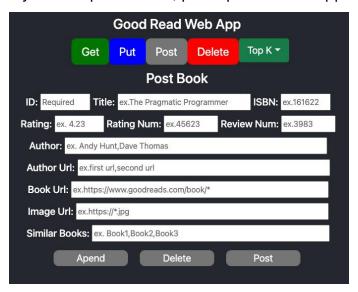


If you click put button, put api UI should appear:





If you click post button, post api UI should appear:





If you click delete button, delete api UI should appear:



(2) Test get mode search by Id buttons

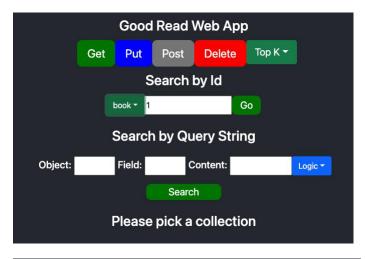
If you directly click the go button, error message should appear:

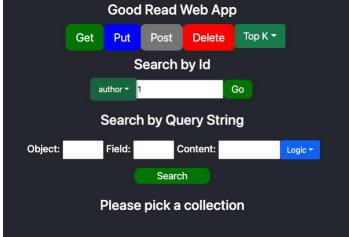


After adding a id in input bar, with out picking a collection, clicking go button should show following error message:



Collection pick bar should work correctly as following examples:





(3) Test get mode search by query string buttons



If blank space is clicked, button should show string: logic:



If NOT is clicked, button should show string: NOT:



If AND is clicked, button should show string: AND, and second query string input UI should appear:



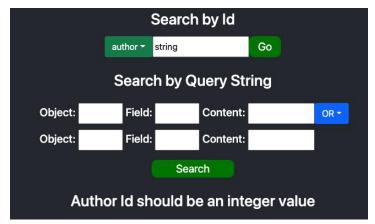
If OR is clicked, button should show string: OR, and second query string input UI should appear:



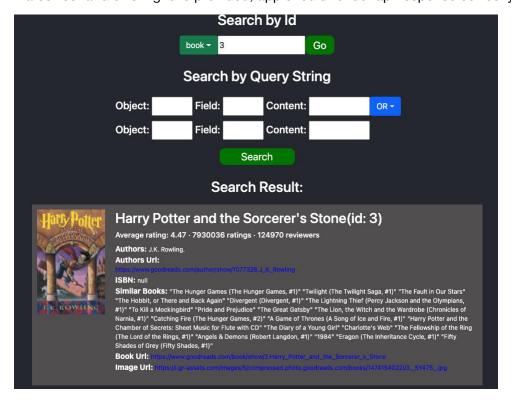
(4) Test get mode search id function:

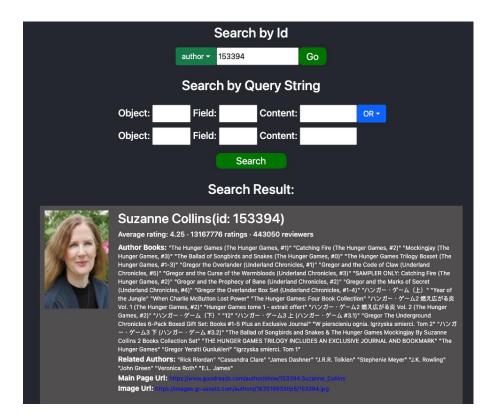
If non valid id or not exist id is provided, error message should appear:





If a correct and existing id is provided, app should render api response correctly:





(5) Test get mode query string search function:

Any type of invalid query string should make error message appear to remind user to change format:



Search by Query String								
Object:	book	Field: id	Content:	> 123	AND ~			
Object:	author	Field: asdw	Content:	< 345				
	Search							
Given query string is not valid								

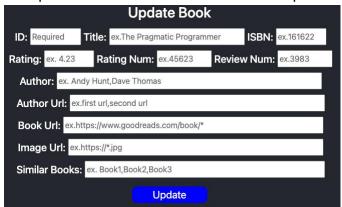
Valid query result should be rendered after search button is clicked:



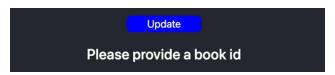


(6) Test put mode update book button:

All input bar should contain hint about input format.

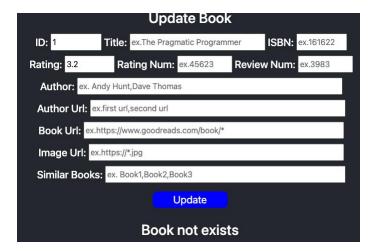


If no book id is provided, update button should trigger error message to appear:



(7) Test put mode update book function:

If user give a id that is not exist in database, error message should appear:



If incorrect format is provided for a entity, error message should appear:



If correct format input is provided, put process should success:

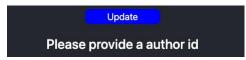
	Update Book					
ID: 3	Title: ex.The Pragmatic Programmer ISBN: ex.161622					
Rating: 4.5	Rating Num: ex.45623 Review Num: ex.3983					
Author: ex. Andy Hunt, Dave Thomas						
Author Url: ex.first url, second url						
Book Url: ex.h	nttps://www.goodreads.com/book/*					
Image Url: ex	.https://*.jpg					
Similar Books: ex. Book1,Book2,Book3						
	Update					
Put success						

(8) Test put mode author buttons:

All input bar should contain hint about input format.



If no author id is provided, update button should trigger error message to appear:



(9) Test put mode author functions:

If user give a id that is not exist in database, error message should appear:



If incorrect format is provided for a entity, error message should appear:

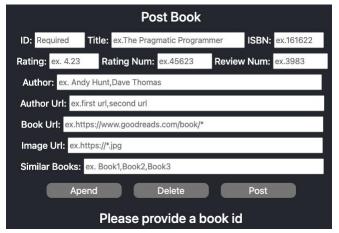
Update				
Provided data is not in correct format				

If correct format input is provided, put process should success:

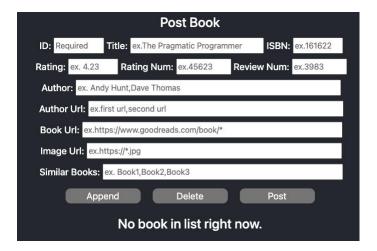
Update Author					
ID: 2815	Name: Andy Hunt				
Rating: ex. 4.23	Rating Num: ex.45623	Review Num: ex.3983			
Main Page Url: ex.https://www.goodreads.com/author/*					
Image Url: ex.https://*.jpg					
Author Books: e	x. Book1,Book2,Book3				
Related Authors: ex. Author1, Author2, Author3					
	Update				
Put success					

(10) Test post mode book button

If no id is provided, append button should give correct error message:



If no info has been append to the list, delete and post button should give error message:

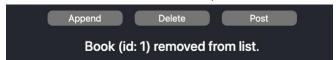


(11) Test post mode book fucntion

After append button is clicked, all info in input bar should be collected and add to list, and then input bar should all become empty for another input:



After delete button is clicked, last added info should be removed from list:



If list is not empty, post button should post all info to back end server and give success response or error message:



(12) Test post mode author button

If no id is provided, append button should give correct error message:

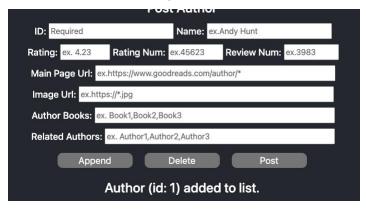


If no info has been append to the list, delete and post button should give error message:

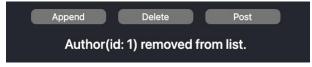


(13) Test post mode author function

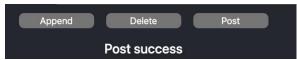
After append button is clicked, all info in input bar should be collected and add to list, and then input bar should all become empty for another input:

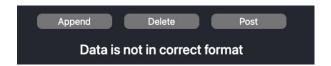


After delete button is clicked, last added info should be removed from list:



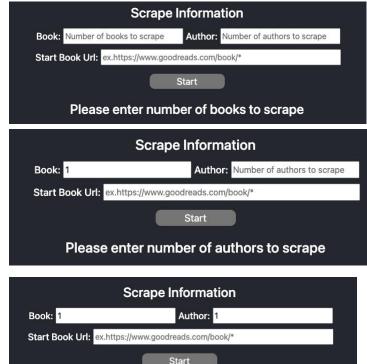
If list is not empty, post button should post all info to back end server and give success response or error message:





(14) Test post mode scrape button

If not all three input bar is filled with value, start button should trigger corresponding error message:



(15) Test post mode scrape function

Please enter a url to start

If correct input is provided, start button should show message that scraper is working and give success response or error message:







(16) Test delete mode button

If no collection is selected or no id got, delete button should show error message like below



Collection bar should work correctly after user pick a collection:



(17) Test delete mode function

If id does not exist in database, correct error message should appear:



If id is valid, delete process should success:

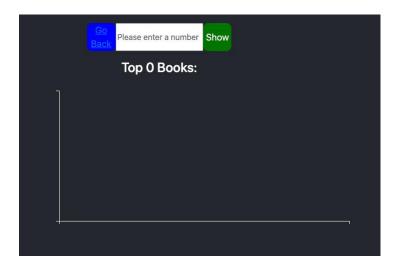


(18) Test top k book button

Top k drop down button should correctly set route to <u>/vis/top-books</u> after picking book:

Go back button should correctly set route back to /api

When no number is provided, show button should show no books:



(19) Test top k author button

Top k drop down button should correctly set route to <u>/vis/top-authors</u> after picking book:

Go back button should correctly set route back to <u>/api</u>
When no number is provided, show button should show no books:

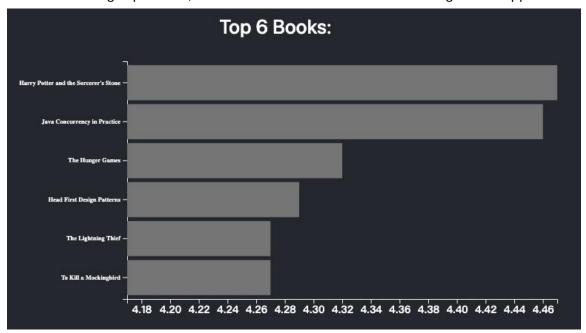


(20) Test top k book function

When invalid string is provided as input, not book result should appear:



When valid string is provided, correct data visualization of book ranking should appear:

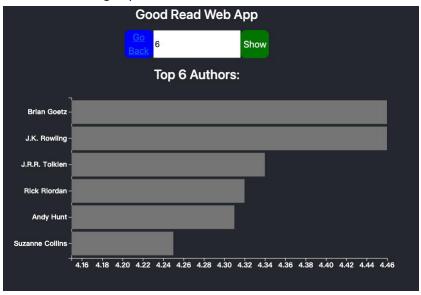


(21) Test top k author function

When invalid string is provided as input, not book result should appear:



When valid string is provided, correct data visualization of book ranking should appear:



(22) Test responsive web page

During all test process above, all pages elements should resize with viewport changes and without horizontal overflow

