Assignment

Overview

Build a web scraper to automatically search the lowest price of books on snapdeal.com by using node.js and puppeteer.

Flow:

1. Load the list of ISBN code(Book Id) and book title from excel file.
2. Enter the ISBN code on the text search field of snapdeal.
3. After enter, you will get one of the following scenario:
   a. No Result: Book is not available on snapdeal
   b. Single Result: Only one book result.
   c. Multiple search results: Multiple options to choose the book.
4. For scenario (a) update the Found column status to "No" in excel and move on to search for the next book.
5. For Scenario (b) and (c), Compare the search results book title with the excel book title. Book titles should match by at least 90%.
6. Then select the lowest price book from the matched book titles.
7. Open the book(click) and scrap the book data such as price,Author,Publisher, in stock,page url.
8. Update the scrap data in excel respectively.
9. Repeat the step till you search all the books.

#2Input Excel Example :

No	Book Title	ISBN
1	The Subtle Art of Not Giving a F	9780062641540
2	Rich Dad Poor Dad	9781612680019
3	IKIGAI	9781786330895
4	Atomic Habits	9781847941831
5	Zero to One	9780753555194
6	Rey blanco	9788466668545

Output Example

No	Book Title	ISBN	Found	URL	Price	Author	Publisher	In Stock
1	The Subtle Art of Not Giving a F	978006264154 0	Yes	https://www.snapdeal.com/product/the-subtle-art-of-not/686281189461#bcrumbSearch:9780062641540	17 7	Mark Manson	Harper Collins	Yes
2	Rich Dad Poor Dad	978161268001 9	Yes	someurl	12 2	someauthor	somepublisher	Yes
3	IKIGAI	978178633089 5	Yes	someurl	12 2	someauthor	somepublisher	No
4	Atomic Habits	978184794183 1	Yes	someurl	12 2	someauthor	somepublisher	Yes
5	Zero to One	978075355519 4	Yes	someurl	12 2	someauthor	somepublisher	Yes
6	Rey blanco	978846666854 5	No	NA	NA	NA	NA	NA

 * This is just an example of output excel to give you an idea about its structure, the actual value within the field will not be the same.

Please Note:

1. When comparing the excel book tile with search results book titles for 90% matched,
   a. Convert the text into lower case.
   b. Remove the highlighted text which is inside the (), after : or -
   Example
   IKIGAI (English, Hardcover, Garcia Hector)
   IKIGAI - The Japanese Secret to a Long and Happy Life
   IKIGAI : The Japanese Secret to a Long and Happy Life