SDET Coding challenge

Problem statement:

A Librarian is planning to purchase set N books and he wants to buy them at better prices. He wants a techie to help him who can suggest better online retailer platforms to buy the books.

The Librarian is expecting to search the list of books on the given online platforms and conclude which platform is cheaper to buy for a given set of books. Ignore shipping cost for now

1. https://www.amazon.in/
2. https://www.flipkart.com/
3. https://www.buybooksindia.com/

Write an automation framework for the given problem statement. You can pick any coding language you are familiar with.

The framework should have:

1. Page object model implementation
2. Any reporting of plugin of your choice
3. The framework should be handy enough to add another retailer platform if needed.
4. Readme.md with steps to run it

Push your code to a git repository and share it with us.

Input:

A CSV file with Book names and quantity. <It can contain any number of books>

      Ex: bookList.csv
      The Monk Who Sold His Ferrari, 10
      The Candy House, 5
      The God Of Small Things, 6
      The White Tiger,20

Expected Output:

1. Generate a JSON file with the details

```
{
  "<book1 ISBN>":{
    ""Book  Name":"<Name of the book>",
    "Publisher":"Book publisher",
    "Author":"<Author of the book>",
    "Qty": <Integer>,
    "Amazon":{
      "Price":"<Price in INR>",
      "Is available":"<Boolean>"
    },
    "Flipkart":{
      "Price":"<Price in INR>",
      "Is available":"<Boolean>"
    },
    "BooksIndia":{
      "Price":"<Price in INR>",
      "Is available":"<Boolean>"
    }
  },
"<book2 ISBN>":{
    ""Book  Name":"<Name of the book>",
    "Publisher":"Book publisher",
    "Author":"<Author of the book>",
    "Qty": <Integer>,
    "Amazon":{
```

```
      "Price":"<Price in INR>",
      "Is available":"<Boolean>"
    },
    "Flipkart":{
      "Price":"<Price in INR>",
      "Is available":"<Boolean>"
    },
    "BooksIndia":{
      "Price":"<Price in INR>",
      "Is available":"<Boolean>"
    }
  }
}
```

2. Conclude which platform is cheaper to buy the set of books and list out total costs in each online retail platform for comparison.
3. Assume these scenarios,
    a. All books are available on all the sites
    b. If a book is unavailable on one site, choose the platform where all books are available.
    c. Ignore the scenario where all books are not available on all the sites.
4. Assume that there is no shipping cost for now.