Module Project - React :Book finder

**Project description :** You have been tasked with developing an application, Book Finder, which will help users discover and get detailed information about books. The application will use the Google Books API to fetch data. It will be an SPA (Single Page Application) built using React, Redux, React Router, and React Hooks.

**Total assignment marks :** **100**

**Deliverables [Total marks : 95] :**

1. **Setting up the project : [5 marks]**
   1. Set up a react project & organise the source files appropriately. This includes creating separate directories for components, actions, reducers, and utilities.
2. **Creating a navbar :** **[10 marks]**
   1. Implement a navigation bar that includes the application title (i.e., "Book Finder") and links to "Home" and "Favourites". Use React Router to manage routing in the application.
3. **Creating Home Page with Search Functionality : [10 marks]** 
   1. The home page should include a search bar where users can input book titles, authors, or keywords. On form submission, call the Google Books API and display the results in a visually appealing way. The list of books should show a thumbnail, title, and authors.
4. **Creating Book Details Page : [10 marks]**
   1. When a user clicks on a specific book in the search results, they should be redirected to a details page. This page should show more information about the book, such as its full description, publisher, published date, page count, and categories. Also, include an "Add to Favourites" button on this page.
5. **Implementing Redux for State Management : [10 marks]**
   1. Use Redux for state management. This includes storing the search results and a list of the user's favourite books. Make sure to include actions for fetching books from the API and adding/removing books from favourites.
6. **Creating a Favourites Page : [10 marks]**
   1. Implement a "Favourites" page which shows a list of books that the user has added to their favourites. Each item in this list should link to the respective book's detail page.
7. **Using React Hooks : [10 marks]**
   1. Incorporate the use of useState, useEffect, useContext, and useReducer hooks in the project.
8. **Creating a Responsive Design :** **[10 marks]**
   1. Make sure that the application is mobile-responsive, meaning it should display well on a variety of screen sizes.
9. **Error Handling and Loading States : [10 marks]**
   1. Implement proper error handling for the API calls. Show a loading spinner while the data is being fetched, and display an appropriate message if there is an error.
10. **UI of the application : [10 marks]**
    1. Below are some links for inspiration, these websites show how a book searching interface can be designed in an appealing way.

1. \*\*Goodreads:\*\* [https://www.goodreads.com/](https://www.goodreads.com/)

- Goodreads is a popular book review and recommendation site. Its simple, clean interface and focus on book covers make it a good source of inspiration for a book search interface.

2. \*\*Google Books:\*\* [https://books.google.com/](https://books.google.com/)

- Google Books has a simple and straightforward design. Pay attention to how they display book details and search results.

3. \*\*Amazon Books:\*\* [https://www.amazon.com/books-used-books-textbooks/b?ie=UTF8&node=283155](https://www.amazon.com/books-used-books-textbooks/b?ie=UTF8&node=283155)

- Amazon has a more commercial design, with a focus on selling books, but it's still a good source of inspiration for how to display book details and user reviews.

For more general UI design inspiration, these sites offer wide arrays of designs to browse through:

1. \*\*Dribbble:\*\* [https://dribbble.com/](https://dribbble.com/)

- Dribbble is a community of designers sharing screenshots of their work, process, and projects.

2. \*\*Behance:\*\* [https://www.behance.net/](https://www.behance.net/)

- Behance is a platform for showcasing and discovering creative work.

3. \*\*Pinterest:\*\* [https://www.pinterest.com/](https://www.pinterest.com/)

- Pinterest allows you to search for specific UI designs and "pin" them to refer back to later.

**Project Deployment & submission [Total marks : 5]:**

1. Title of your folder in github should be in the following format : **[2 marks]**
   1. “Your name, Project React, Date of submission”
   2. Example : “John\_Doe\_Project\_React\_19th\_may”
2. Once the assignment has been created, upload all the folders on github & commit (save) all the changes, make sure you add a readme file containing detailed description of your thoughts during the assignment creation. **[2 marks]**
3. Once done, kindly copy the github link of your assignment & submit the same using your dashboard. **[1 mark]**

**Steps to setting up an API for your project.**

**Install: npm I –g json-server**

**Create one folder calles books server and create books.json file as below.**

create one JSON file

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books.json

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{

"books":[

{

"id":"",

"name":"",

"desc":"",

"thumbnaile":"url"

},

{

"id":"",

"name":"",

"desc":"",

"thumbnaile":"url"

},

{

"id":"",

"name":"",

"desc":"",

"thumbnaile":"url"

}

]

}

==========================================================================

json-server books.json --port 5000

your API is ready

localhost:5000/books

just trigger it from your react application using axios.