

BOOK WEBSITE

Introduction/Use Case/Problem Statement

In this website the user is allowed to view the books details. The user can search the book, sort them according to various parameter. The user can navigate inside the page using navbar link. The user can see more details by clicking the card.

Assumptions

- Google API returns result - It returns a list of Book object which includes data like id, title, sub-title, published date, description etc.
- User should have a stable network to access the API data.

Requirements:

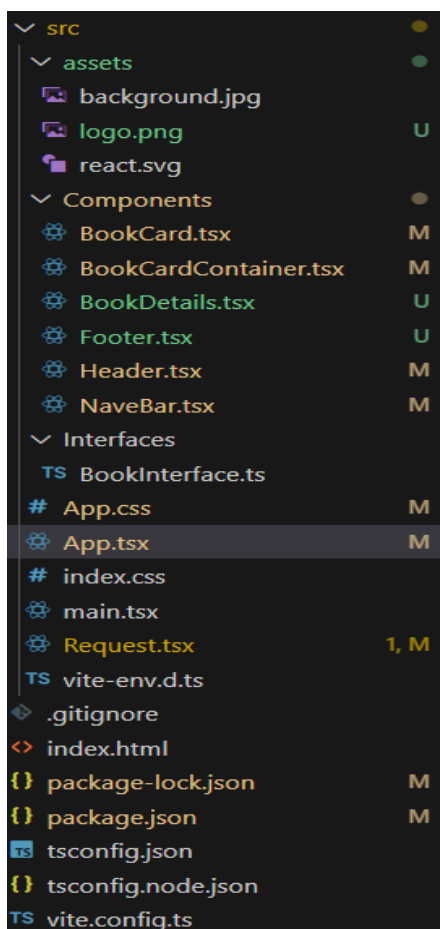
- i. The Home Page will be displayed to the user which contain a NavBar, a Header component and a BookCardContainer component and Footer Component.
- ii. The NavBar contain a logo and link of Home and AboutUs to navigate.
- iii. The Header Component have a search bar to search book.
- iv. The user put a book name in search bar and enter to search the book.
- v. The BookCard component will be displayed with book data in a card format. (Book data includes thumbnail{photo}, title, author and published date).
- vi. The user can see more information about the book by clicking the book photo in BookDetails Component.
- vii. The other information include the all above details with a description.
- viii. The user can sort the book according to newest and relevance.

Non-Functional Requirements

- I. The book should be displayed according to the search term.
- II. The book should be sort as per the user selection.
- III. The dropdown should show the current selection.
- IV. If a user select the sort first and then search the book the book should be displayed according to the sort.
- V. The user should be nagivate to the respected place when it click home or aboutus.
- VI. The description should be opened when the user click on photo and closed when user again click on it.

Design

Folder Structure:



Components:

1. NavBar
 - a. Logo
 - b. Home Link
 - c. AboutUs Link
2. Header
 - a. Background Image
 - b. Search Bar
3. BookCardContainer
 - a. Sort DropDown
4. BookCard
 - a. List of BookCards
5. BookDetails
 - a. Details of books.
6. Footer
 - a. AboutUs Details

Objects(required information extracted from the API response):

- Book Object Interface:

```
id: string;

volumeInfo: {
  title: string;
  subtitle: string;
  authors: Array<string>;
  publisher: string;
```

```
    publishedDate: string;
    description: string;
};
imageLinks: {
    smallThumbnail: string;
    thumbnail: string;
};
sorting:{
orderBy:relevance,newest
};
```

States Maintained:

1. App.tsx

searchTerm : input in search bar.

2. BookCard.tsx

isPopupOpen: for book details popup

3. BookCardContainer

bookList: book interface
error: error handling
orderBy: for sorting book

4. Header.tsx

searchTerm: user input

Sorting By:

Released Data (book.orderBy)