Senior Frontend Developer

Problem Statement: Book Buying E-commerce Web Application

Description:

You are tasked with building a Book Buying E-commerce Web Application that allows users to browse, search for, and purchase books.

The application must include:

- Advanced Sorting,
- Filtering,
- Pagination,
- Loading States,
- A Shopping Cart,
- Checkout Process,
- Order History, And
- Detailed Book Pages.
- Any additional pages/functionalities would be a plus

You should use ReactJS (preferably with Next.js for server-side rendering), Typescript, Redux Toolkit, Axios or another HTTP client, and Tailwind CSS with responsive and neat UI design.

Tech Stack:

- React JS (Next.js preferred for server-side rendering)
- Type Script
- Redux Toolkit for state management
- Axios or any HTTP client for API requests
- Tailwind CSS for UI styling
- Responsive design for various screen sizes

Requirements:

User Interface:

- Create a responsive and visually appealing user interface for the Book Buying E-commerce Web Application.
- Design product listings with book covers, titles, authors, ratings, and other relevant information which you will receive in the books API that we have provided below.
- Implement pagination for displaying a limited number of books per page.
- Provide a loading state to handle API requests while waiting for data.

State Management:

- Implement state management using Redux Toolkit to handle user interactions, shopping cart management, state synchronization and many more.
- Manage the state for cart items, order history, and user actions.

Advanced Sorting and Filtering:

- Develop advanced sorting options for books, such as sorting by ratings, price, and publication date etc.
- Implement filtering options for users to refine their book search by genre, author, and other criteria based on the fields present in the following books API response.

Shopping Cart:

- Enable users to add books to a shopping cart, view the cart's contents, update quantities, remove items, etc.
- Calculate the total price and provide a seamless cart experience.

Checkout Process:

- Create a checkout process where users can enter their shipping details, payment information, and confirm their purchase.
- Simulate the purchase process without actual payments (no need to integrate any payment gateway simulating it works for the task).

Order History:

- Store user order history, allowing users to view their previous purchases.
- Provide order details, including order date, book titles, and total cost.

Book Details Page:

- Implement individual book detail pages that display comprehensive information about a selected book, including its cover, title, author, description, ratings, related books etc. (Use this page to show your design skills and creativity)

Evaluation Criteria:

- Candidates will be evaluated based on their ability to create a fully functional Book Buying E-commerce Web Application, including advanced sorting, filtering, and state management using Redux Toolkit.
- The application should provide a responsive and visually appealing user interface.
- We will carefully evaluate the coding practices, folder structure, design patterns used in the project.

Submission Instructions:

- Candidates should submit a link to their public GitHub repository containing the project.
- Include clear instructions on how to run the project locally.
- Provide a README explaining their design decisions, the technologies used, and any additional features implemented.
- Having deployed link of the application would be a huge plus

Resources

- Books api to be used: https://d1krvzwx5oquy1.cloudfront.net/books.json

Points to note:

- Above api only serves JSON responses and does not accept any queries to search, sort or filter. Make sure you implement these functionality at the frontend itself.

- To store any data you can utilise browser storages. Also, if you want you can implement authentication screens while managing the logic at the client side itself.

- Make sure you keep your github repository PUBLIC

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