Case Study: Online Bookstore

Project Overview:

You are tasked with building the frontend of an online bookstore. The bookstore should have the following key features:

- Homepage:

    Display a list of featured books.

    Include a search bar to search for books by title or author.

- Book Details:

    Clicking on a book should lead to a details page showing information about the book (title, author, description, etc.).

- Shopping Cart:

    Allow users to add books to their shopping cart.

    Display the total price and allow users to proceed to checkout.

- Responsive Design:

    Ensure the website is responsive and works well on various devices.

Requirements:

    Use a JavaScript framework/library either **React** or **Vue.js**.

    Implement a RESTful API to fetch book data. You can use a mock API or integrate with a public API (e.g., Google Books API).

    Use proper state management for handling the shopping cart functionality.

    Apply best practices for code structure, organization, and naming conventions.

    Implement basic form validation for the checkout process.

Evaluation Criteria:

- Functionality (60%):

    Does the application meet the specified requirements?

    Are the features implemented correctly?

- Code Quality (20%):

    Is the code well-organized and readable?

    Does it follow best practices for frontend development?

- Responsiveness (10%):

    Does the application work well on different screen sizes?

- User Interface (UI) (10%):

    Is the UI intuitive and visually appealing?

Submission:

Submit a GitHub repository link containing your code, along with a brief README explaining your design decisions, any trade-offs made, and instructions on how to run the application.

Tips:

Feel free to use any additional libraries or tools you find necessary.

Document your code and provide comments where necessary.

Consider adding unit tests for critical functionalities.