

Assignment:

Build a Full Stack application that manages a library of books. Hard code a list of books to start with in memory on server side.

Frontend:

Use Angular or React to build the front-end component of the application. This should include:

1. A view to display all books in the library using a card style layout.
2. A view to add a new book to the library.
 - Create a separate page for adding
 - All fields are editable
 - Validate all inputs
3. A view to edit a book.
 - All fields are editable
 - Validation of inputs
 - Create a separate page for editing
4. A view to delete a book.
 - A simple delete with a confirmation popup. Are you sure you want to delete Contact”?

Each book should have the following properties:

- Title
- Author
- Year Published
- Genre

Use a simple state management library (Zustand, Jotai etc. No Redux please) on the front end. Once a book is added, edited, deleted return to the home page and the list of books should reflect the changes made.

Backend:

Use Node.js to build a REST API with the following endpoints:

- GET /books - Retrieves all books.
- POST /books - Adds a new book.
- PUT /books/:id - Updates an existing book.
- DELETE /books/:id - Deletes a book.

Data persistence can be in-memory, so there's no need to implement a database.

Bonus:

1. Implement error handling on both the front end and the back end.
2. Add unit tests to both the front end and the back end.

Submission:

- Create a git repository for your project.
- Commit your work with descriptive commit messages.
- Push your work to a remote repository and share the link.

The application will be evaluated on:

1. Usage of state
2. Routing
3. Forms
4. Overall architecture
5. Styling
6. Accessibility

Note: Your application will be evaluated on code quality, clarity, design and functionality. Feel free to show your understanding of best practices and your ability to write clean, well-structured, and well-documented code.

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