

Full Stack Developer Assignment: Book Review Platform

Objective

Develop a book review platform where users can browse books, read and write reviews, and rate books. The application should have a React frontend and a Node.js backend using Express and SQL/MongoDB.

Requirements

Frontend (React)

1. Create a responsive UI with the following pages/components:
 - Home page with featured books
 - Book listing page with search and filter functionality
 - Individual book page with details and reviews
 - User profile page
 - Review submission form
2. Implement state management (e.g., using Redux or React Context)
3. Use React Router for navigation
4. Integrate with the backend API
5. Implement error handling and loading states

Backend (Node.js, Express, SQL/MongoDB)

1. Set up a RESTful API with the following endpoints:
 - GET /books - Retrieve all books (with pagination)
 - GET /books/:id - Retrieve a specific book
 - POST /books - Add a new book (admin only)
 - GET /reviews - Retrieve reviews for a book
 - POST /reviews - Submit a new review
 - GET /users/:id - Retrieve user profile
 - PUT /users/:id - Update user profile
2. Implement data validation and error handling
3. Use SQL/MongoDB for data persistence

Evaluation Criteria

1. Code quality and organization
2. Proper use of React hooks and components
3. RESTful API design and implementation
4. Database schema design
5. Error handling and edge case management
6. Documentation clarity
7. UI/UX design considerations

Submission

1. Provide a GitHub repository link containing your project
2. Include a README with setup instructions and any additional notes
3. (Optional) Deploy the application and provide a live demo URL