📚 Assignment: Book Review Platform

🎯 Objective

You're required to build a **Book Review Platform** where users can:

- Add new books
- View a list of all books with filters
- Write reviews for books
- Rate books (1 to 5 stars)
- View average rating per book

This is a 48-hour time-bound assignment to evaluate your backend and frontend development skills using **React** and **Node.js**.

✅ Functional Requirements

📘 Books

Each book should have:

- `title` (string)
- `author` (string)
- `genre` (string)

Users should be able to:

- Add new books

- View a paginated list of all books
- Filter books by genre and/or author

✍️ Reviews

Each book can have multiple reviews with:

- `review_text` (string)
- `rating` (integer from 1 to 5)
- `reviewer` (logged-in user)

Users should be able to:

- Add a review and rating to any book
- View all reviews for a book
- See the **average rating** for each book on the listing and detail pages

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💻 Technical Requirements

🔐 Authentication

- Implement simple **Signup/Login** using JWT
- Only logged-in users can add books or write reviews

🧠 Backend (Node.js)

- REST API with appropriate routes and validations
- Use **any database** (SQLite, PostgreSQL, or MongoDB)

- Use proper model relationships (1 book → many reviews)

🎨 Frontend (React)

- Use React with Hooks (no class components)
- Pages required:
    - Login / Signup
    - Book list page (with filters, pagination)
    - Add Book page
    - Book Detail page (show reviews + add review)

You may use **Axios** for API calls and **React Router** for navigation.

🛠️ Bonus (Optional but Appreciated)

- Use MUI / Tailwind / Chakra UI for styling
- Show visual stars in rating display
- Add sorting (by rating, date added)
- Add form validations
- Responsive UI
- Basic deployment (Vercel + Render/Railway)

🧪 Evaluation Criteria

Area	Weight
Code Quality & Structure	25%
Backend API Design & Security	20%
UI Flow & UX	20%
Functionality Completeness	20%
Bonus & Creativity	15%

🔒 Anti-Cheat Requirements

To ensure fairness, you **must include** the following:

1. **5-minute Loom video** walkthrough of your app and code structure
2. **README.md** with:
    - Setup instructions
    - Architecture decisions
    - Known limitations (if any)
3. **GitHub Repository** link with proper commits (no zip uploads)

Submissions that show signs of AI-generated code with no understanding will be disqualified.

📅 Submission Guidelines

- ⏱️ **Deadline:** 48 hours from the moment you receive this assignment
- 📬 **Submit via:** Google Form / Email / Notion (as instructed)
- 📦 Required: GitHub Repo + Loom Link + README.md