**Mini Assignment: Book Review API (Node.js)**

**Objective:**Build a RESTful API using **Node.js (with Express)** for a basic **Book Review** system. This assignment is designed to assess your understanding of backend fundamentals, authentication, and clean API design.

**🔧 Requirements:**

**1. Tech Stack:**

* **Node.js** with **Express.js**
* Any database (e.g., MongoDB, PostgreSQL, or SQLite)
* Use **JWT** for authentication

**2. Authentication:**

* Implement JWT-based user authentication
* Endpoints:
  + POST /signup – register a new user
  + POST /login – authenticate and return a token

**3. Core Features:**

* POST /books – Add a new book (Authenticated users only)
* GET /books – Get all books (with **pagination** and optional filters by author and genre)
* GET /books/:id – Get book details by ID, including:
  + Average rating
  + Reviews (with **pagination**)
* POST /books/:id/reviews – Submit a review (Authenticated users only, one review per user per book)
* PUT /reviews/:id – Update your own review
* DELETE /reviews/:id – Delete your own review

**4. Additional Feature:**

* GET /search – Search books by title or author (partial and case-insensitive)

**📦 Deliverables:**

1. **Source Code:**
   * Well-structured project with modular code
   * Use of environment variables (.env) for config
   * Clear and meaningful comments wherever helpful
2. **README.md** with:
   * Project setup instructions
   * How to run locally
   * Example API requests (with curl or Postman)
   * Any design decisions or assumptions made
3. **Database Schema:**
   * Brief schema design in the README or separate file (ER diagram optional)

**📤 Submission Instructions:**

* Push your code to a **GitHub repository**
* Share the **public repo link** by pasting the link on the Airtable Form.