Project Name: Book Catalog BackEnd

Based on the current project, we need to enhance it by adding the following new features:

1. Authentication & Authorization

- Task: Implement user authentication (e.g., using JWT tokens) to secure the API.
- **Details**: Allow only authorized users (e.g., admins) to perform CRUD operations (Create, Read, Update, Delete) on the books. Regular users can only view the catalog.

2. Logging

- **Task**: Add logging to track actions taken on the API (e.g., when a book is added, updated, or deleted).
- Details: Implement logging using a logging library like Serilog or NLog. Logs should be stored in files.
- Tools/Technologies: Serilog, NLog, Application Insights

3. Error Handling

- **Task**: Implement global error handling to return meaningful error responses for failed requests.
- **Details**: Use a centralized error handling mechanism (like a middleware) to catch all exceptions and return a consistent error response format.
- Tools/Technologies: ASP.NET Core Middleware, Custom Exception Filters

4. Search and Filtering Enhancements

- Task: Implement full-text search for books based on title and description.
- Details: Add a search endpoint that allows users to search for books by title or description (e.g., /books/search?query=keyword).
- **Tools/Technologies**: LINQ Contains method or more advanced libraries (like ElasticSearch if you scale).

Estimation: 3 Days

Time Deliver: 24/08/2025