



## **Assignment 8**

create a simple application to manage a collection of books and authors. The application will allow you to:

### **1. Define the Models**

#### **1. Define a book model:**

- title (String, required)
- content (String, required)
- author (String, required)
- publishedDate (Date, default to the current date)

#### **2. Define an author model:**

- name (String, required)
- bio (String)
- birthDate (Date)
- books (Array of ObjectIds referencing Book model)

### **2. Test the Application**

#### **1. Use a Postman to test the API endpoints:**

- POST request to create a new book.
- GET request to retrieve all books.
- GET request to retrieve a single book by its ID.
- PATCH request to update a book by its ID.
- DELETE request to delete a book by its ID.
- POST request to create a new author.
- GET request to retrieve all authors.
- GET request to retrieve a single author by its ID.
- PATCH request to update an author by its ID.
- DELETE request to delete an author by its ID.

## Bonus Task

- Add pagination to the *GET* endpoints for retrieving all books and authors.
- Implement search functionality to filter books by title or author, and authors by name or bio.
- Add a relationship so that when retrieving an author, the response includes a list of books written by them.

## Post on LinkedIn:

- A *GitHub* repository containing the complete code for the *CRUD* application.
- Screenshots or a screen recording of the *API* endpoints being tested using *Postman*.

## Submission

Submit the *GitHub* repository link along with a *postman* documentation.