

**WEB API’S Assignment**

**Objective:** This assignment aims to assess your understanding of building and consuming Web APIs. You'll be creating a backend API for the online bookstore and integrating it with the frontend.

**Requirements:**

1. **API Setup:**
   * Create a new .NET Core Web API project named BookStoreApi.
   * Define a Book model with properties: Id, Title, Author, Description, and ImageUrl.
2. **API Endpoints:**
   * Implement the following endpoints:
     + GET /api/books - Returns a list of all books.
     + GET /api/books/{id} - Returns a specific book by ID.
     + POST /api/books - Adds a new book.
     + PUT /api/books/{id} - Updates an existing book by ID.
     + DELETE /api/books/{id} - Deletes a book by ID.
     + GET /api/books/author/{author} - Returns books by the same author
3. **Frontend Integration:**
   * Modify your index.html to fetch book data from the API instead of the books.json file.
   * Use jQuery Ajax to make requests to the API endpoints.
   * Implement the search and load more features to work with the API.
4. **Additional Feature:**
   * Add a form to the page that allows users to add new books to the store. Use Ajax to submit the form data to the POST /api/books endpoint and update the book list dynamically.

**Grading Criteria:**

* Correct implementation of API endpoints: 40%
* Successful integration with the frontend: 40%
* Additional feature implementation: 10%
* Creativity and effort: 10%

**Helpful Resources:**

* [ASP.NET Core Web API Documentation](https://docs.microsoft.com/en-us/aspnet/core/web-api/)
* [Entity Framework Core Documentation](https://docs.microsoft.com/en-us/ef/core/)
* [MDN Web Docs: Using Fetch](https://developer.mozilla.org/en-US/docs/Web/API/Fetch_API/Using_Fetch)