# Assignment 1: Repository Pattern in ASP.NET Core Web API for Library Management

Steps:

1. **Create a Web API Project**

Project Name: LibraryManagementAPI

1. **Create Model Classes**

In the Models folder, create two classes — Author and Book.

Author Model Structure 🡪 AuthorID,Name,Country, ICollection<Book>? Books

Book Model Structure 🡪BookId,Title,Genre,AuthorId, Author? Author

1. **Create the Database Context**

In the Data folder, create a LibraryDbContext class.

1. **Create the Repository Interfaces**

In the Repository folder, create two interfaces:  
IAuthorRepository.cs and IBookRepository.cs.

1. **Implement the Repositories**

In the same folder, create AuthorRepository.cs and BookRepository.cs.

1. **Register Repositories in Program.cs**
2. Create The Controllers

AuthorsController.cs

BooksController.cs

1. **Add Connection String (appsettings.json)**
2. **Run and test**