

Introduction in .Net Core -> Lab 4 (Florin Olariu & Dan Nastasa)

Prerequisites:

- a) Create a Blank solution
- b) Add a Class Library (.NET Core)
- c) Add a Unit Test Project (.NET Core)
- d) Add dependency between Test Project and Class Library
- e) **Use the Book class (and encapsulation).**

Book

Id

Title (max 100)

Year

Price

String Genre

Note: The exercise can be used to learn:

- LINQ
- Collections
- How Repository Pattern works
- Query syntax
- Method syntax

Exercise:

1. Using the Todo class.
 - a. Create **Book** BookRepository.
 - b. Expose and test the following behaviour using query syntax
 - i. RetriveAllBooks
 - ii. RetriveAllOrderByYearDescending
 - iii. RetriveAllOrderByYearAscending
 - iv. RetriveAllOrderByPriceAscending
 - v. RetriveAllOrderByPriceDescending
 - vi. RetriveAllBooksGroupedByGenre
 - c. Expose and test the following behaviour using method syntax
 - i. RetriveAllBooks
 - ii. RetriveAllOrderByYearDescending
 - iii. RetriveAllOrderByYearAscending
 - iv. RetriveAllOrderByPriceAscending
 - v. RetriveAllOrderByPriceDescending
 - vi. RetriveAllBooksGroupedByGenre
 - d. For testing Populate an IEnumerable of Books using SUT approach(minimum 10 books)

Note:

1. All exercises are mandatory.
2. You will receive your points at the end of the lab.