

Introduction to .NET – lab no. 3

Way of working: in pair with one colleague.

Summary:

Keywords: inheritance, collections, repository pattern, LINQ, Query syntax, method syntax

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 Product class (and encapsulation).

Product

Id

ProductName (max 50)

ProductDescription(max 200)

StartDate

EndDate

Price

Exercise: s

- 1. Using the Product class.
 - a. Create Product Repository class.
 - b. Expose and test the following behaviour using query syntax
 - i. RetriveActiveProducts
 - ii. RetriveInactiveProducts
 - iii. RetriveAllOrderByPriceDescending
 - iv. RetriveAllOrderByPriceAscending
 - v. RetriveAll -> criteria contains by name
 - vi. RetriveAll -> criteria by start date and end date
 - c. Expose and test the following behaviour using method syntax

- i. RetrieveActiveProducts
- ii. RetrieveInactiveProducts
- iii. RetrieveAllOrderByPriceDescending
- iv. RetrieveAllOrderByPriceAscending
- v. RetrieveAll -> criteria contains by name
- vi. RetrieveAll -> criteria by start date and end date

d. For testing Populate an IEnumerable of Products using SUT approach(minimum 10 books)

Note:

1. All exercises are mandatory.
2. You will receive your points at the end of the lab.
3. Working time: 80 minutes.