

PROG35142 - Advanced .NET Server Development
Assignment 4, Winter 2021
Instructor: Mahboob Ali

Instructions

1. Create a C# Unit Test Project named: [YOUR_INITIALS]_LAB4.Tests (ex. MA_LAB4.Tests) that:
 - a. Write a Unit Test that uses the Web API Product controller to Add a product.
 - b. Write a Unit Test that uses the Web API Product controller to Get a product.
 - c. Write a Unit Test that uses the Web API Product controller to Delete a product.
 - d. *Take a screenshot that shows the test code for the above tests.*
 - e. Refactor the MVC Product Controller from assignment 3 so that it utilizes the Repository Pattern instead of directly accessing the database.
 - f. Refactor the MVC Product Controller from assignment 3 so that it utilizes the Dependency Injection Pattern instead of directly referencing the Repository class.
 - g. *Take a screenshot of the top portion of the Product Controller and Code Repository code.*
 - h. Create a Fake Product Repository that implements the Interface. Ensure that the Index method is fully implemented (faked) while the other method implementations can just throw a NotImplementedException.
 - i. *Take a screenshot of the Fake Product Repository code.*
 - j. Create Unit Test that uses the MVC Product Controller to get a list of available products from the Fake Product Repository.
 - k. *Take a screenshot of the code for Product Controller's Unit Tests*
 - l. *Take a screenshot of the Test Explorer that shows the results from the Test Explorer after the tests are executed.*

Hint: follow the example we did in the class for testing.

Additional Requirements

- **Submit your assignment (including all screenshots) via SLATE as per the submission requirements below**

Submission Requirements

- Include a few appropriate screenshots and put them in a Word document named as follows: [LASTNAME]_TLAB1.docx.
- **Zip up your** complete project and name it: [LASTNAME]_TLAB1.zip.
- **Make sure** you have captured all your screen shots.