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Platform Used: MS Visual Studio Community 2019 Version 16.1.1

Database Used: In Memory

Github Repository Link: https://github.com/Rohitbadgujar/ToDo_Application_MVC

API is built in C# .Net Core.

1. How to run the application:

Open cmd -> go to project directory -> dotnet build

> dotnet run

or

Open project in Visual Studio -> Cntrl+ f5

To run test cases -> Test -> Run -> All Test case

2. Functionality:

Made Product {ID, Name, Description} fields mandatory using Data annotation.

- i. Get All products [HTTPGET]

<https://localhost:5001/api/WebApiProduct/getproduct>

- ii. Delete product by Id [HTTPDELETE]

<https://localhost:5001/api/WebApiProduct/deleteproductbyId/{productId}>

ex. <https://localhost:5001/api/WebApiProduct/deleteproductbyId/2>

- iii. Get Product with specific ID [HTTPGET]

<https://localhost:5001/api/WebApiProduct/getproduct/{productId}>

ex. <https://localhost:5001/api/WebApiProduct/getproduct/3>

- iv. Update Product by Id [HTTPPUT]

<https://localhost:5001/api/WebApiProduct/updateproduct/{productId}> and JSON Data to be updated

<https://localhost:5001/api/WebApiProduct/updateproduct/10> & JSON

data {

"id": 10,

"name": "updated Orange Juice",

"description": "Juice made of fresh Oranges"}

v. Add new product [HTTPPUT]

<https://localhost:5001/api/WebApiProduct/insertproduct>

JSON

data {

"id": 12,

"name": "Cheese Cake",

"description": "Fresh Cheese Cake"}

vi. Get Count of all products and products on the requested page

<https://localhost:5001/api/WebApiProduct/getpagelist/{page}/{pagesize}>

e.x <https://localhost:5001/api/WebApiProduct/getpagelist/3/5>

API is tested using NUnit Test cases for various methods and HTTP requests

NUnit Test Project – **NunitTestWebApi**

Solution is also tested using the application Postman