# PRODUCT API

User Manual



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## Product API

This section of the document describes the Product API's, how to run part and its various operations.

#### Technology Stack

1. Code Editor: Visual Studio 2019 Community

Template: ASP.NET Core Web API
 API Documentation: Swagger

4. Database: SQL Express

5. ORM tool: Dapper

6. Dependency Injection: ASP.NET Core component

7. Framework: .NET Core 3.18. Programming Language: C#

9. Other Libraries:

Newtonsoft.JSON

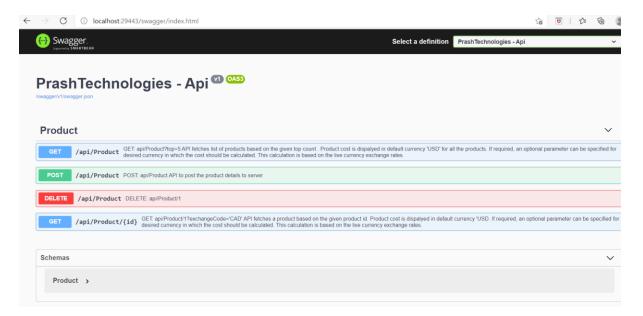
10. Unit Test Framework: XUnit11. BDD Framework: SpecFlow

12. Third party services: <a href="http://api.currencylayer.com/live">http://api.currencylayer.com/live</a>

#### Setup & Execution

- Download the code from public repository https://github.com/raoprashanth007/PrashTechnologies.git
- Open the folder PrashTechnologies.Api\DBScripts and run the scripts in your local database
  - o dbo.Products.sql
  - o dbo.Stats.sql
- Locate the file appsettings.json (PrashTechnologies.Api\appsettings.jon) and modify the ConnectionStrings section to reflect your database instance

- Build the solution 'PrashTechnologies.Api' and run it
- The API documentation can be accessed from the URL: <u>Swagger UI</u>
- API Endpoint: <u>localhost:29443/api/product</u>



#### **BDD Testing**

SpecFlow and xunit frameworks are used for behavior testing of the API's. As of now, only one test case is written for POST functionality. This can be extended further.

Spec:

```
Feature: Product
1
2
            POST Product API (POST: /api/Product)
3
4
    @AddProduct
5 ⊟Scenario: Add Product
        Given I creat a new product(<Name>, <CurrentCost>, <Description>)
6
7
        And ModelState is correct
        Then the system sgould return<StatusCode>
8
9
10 ⊟Examples:
                        | CurrentCost | Description |
         Name
11
         Product-Spec 250.00
                                      new product
12
```

Result:

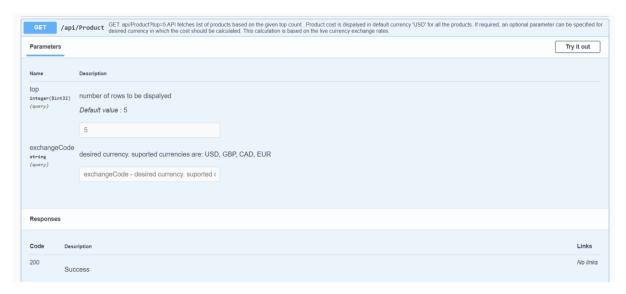


## **API Operations**

The details of various operations have been described in the Swagger documentation. However, the below section highlights the same.

## GET: /api/Product

## Request:



## POST: /api/Product

## Request:





## DELETE: /api/Product

## Request:





## GET: /api/Product/{productId}

## Request:



