Introduction

Purpose of this document is to provide the information about the technical implementation of the “Shop Bridge Web API” application. This application is a Web API that acts as a backend service layer for “Shop Bridge” e-commerce app to providing the functional support to manage the product module.

Technology Stack

* Service Layer: Asp.Net Core Web API(OData)
* Data layer: Entity Framework Core
* Data Base: Microsoft SQL Server (LocalDB)
* Unit Testing: MSTest

Effort Tracking

1. Data store design – 4 Hrs
2. API and service logic – 8 Hrs
3. Unit Test Coverage – 4 Hrs

Endpoint Details

*GetProducts:*

**Http Verb:** Get

**Sample Urls:**

* https://localhost:44398/odata/Products?$filter=CategoryId eq 1
* https://localhost:44398/odata/Products?$filter=Price gt 0
* https://localhost:44398/odata/Products?$filter=indexof(Name, 'Oil') gt 0

**Sample Response:**

**{**"@odata.context": "<https://localhost:44398/odata/$metadata#Products>","value": **[{**"Id": **4**,"Name": "Pepsi","Description": " Pepsi","Price": **0**,"CategoryId": **1}**,**{**"Id": **5**,"Name": "Bovanto","Description": " Bovanto","Price": **0**,"CategoryId": **1}**,**{**"Id": **6**,"Name": "Coke","Description": " Coca Cola","Price": **25**,"CategoryId": **1}]}**

*Post:*

**Http Verb:** Post

**Sample Url:** https://localhost:44398/odata/Products

**Sample Request:**

{

"Name": "Appy Fizz",

"Description": " Appy Fizz",

"Price": 40,

"CategoryId": 1

}

**Sample Response:**

{

"@odata.context": "<https://localhost:44398/odata/$metadata#Edm.Int32>",

"value": 1019

}

*Patch:*

**Http Verb:** Patch

**Sample Url:** <https://localhost:44398/odata/Products(6)>

**Sample Request:**

{

"Name": "Coke",

"Description": " Coca Cola",

"Price": 25,

"CategoryId": 1

}

*Delete:*

**Http Verb:** Delete

**Sample Url:** https://localhost:44398/odata/Products(1019)

Working Screen Shots:

Graphical user interface, text

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated