**Savvy**

**API .NET CORE REST API Assignment**

**Framework and Libraries Used :** .Net Core, .Net EntityFramework.SqlServer, Sql Server

**.Net Core :**

ASP.NET Core is the open-source version of ASP.NET, that runs on Windows, Linux, macOS, and Docker.

.NET Core is a new version of .NET Framework, which is a free, open-source, general-purpose development platform maintained by Microsoft. It is a cross-platform framework that runs on Windows, macOS, and Linux operating systems.

.NET Core Framework can be used to build different types of applications such as mobile, desktop, web, cloud, IoT, machine learning, microservices, game, etc.

**.Net EntityFramework.SqlServer:**

Entity Framework Core is a modern object-database mapper for . NET. It supports LINQ queries, change tracking, updates, and schema migrations. EF Core works with many databases, including SQL Database (on-premises and Azure), SQLite, MySQL, PostgreSQL, and Azure Cosmos DB.

**Web API Endpoints and Details:**

1. GET All:

**Request**

HTTP Method : GET URL : <https://localhost:44342/api/Books>

**Response** : HTTP Code : 200

[{"id":1,

"title":"The Monk Who Sold his ferrari",

"description":"The Monk Who Sold his ferrari",

"author":"Robin Sharma",

"coverImage":"C://Robinsharma.png","price":24},

{"id":2,"title":"The Power Of Now",

"description":"The Power Of Now",

"author":"Eckhart Tolle",

"coverImage":"C://Tolle.png","price":19},

{"id":3,"title":"The Secret Book",

"description":"The Secret Book","

author":"Rhonda Byrne","coverImage":"Demo.png","price":19

}]

1. GET By Id :

**Request**

HTTP Method : GET URL : <https://localhost:44342/api/Books/3>

**Response**: HTTP Code : 200

{"id":3,"title":"The Secret Book - New",

"description":"The Secret Book",

"author":"Rhonda Byrne",

"coverImage":"Demo.png","price":19}

1. POST :

**Request**

HTTP Method : POST URL : <https://localhost:44342/api/Books/>

"body": {"mode": "raw",

"raw":"{\"title\":\"The Secret Book\",\

"description\":\"The Secret Book\",\"author\":\"Rhonda\",\"coverImage\":\"Demo.png\",\"price\":19}",

"options": {

"raw": {

"language": "json"

}

}

}

**Response** : HTTP Code 201 - Created

{"id":5,"title":"Think Like a Monk","description":"Think Like a Monk","author":"Jay Shetty","coverImage":"Demo.png","price":19}

1. HTTP PUT :

**Request** URL : <https://localhost:44342/api/Books/3>

"body": {"mode": "raw",

"raw": "{\"title\":\"The Secret Book\",\"description\":\"The Secret Book\",\"author\":\"Rhonda Byrne\",\"coverImage\":\"Demo.png\",\"price\":19}",

"options": {"raw": {

"language": "json"} } },

**Response :** HTTP Code 204 – No Content

1. **HTTP Delete :**

**Request** URL : <https://localhost:44342/api/Books/4>

**Response** : HTTP Code 204 – No Content

**References :**

[**https://dotnet.microsoft.com/apps/aspnet/apis**](https://dotnet.microsoft.com/apps/aspnet/apis)

**https://docs.microsoft.com/en-us/ef/core/providers/sql-server/?tabs=dotnet-core-cli**