

Name :- Divyang Priyadarshi

Email :- divyang.office133@gmail.com

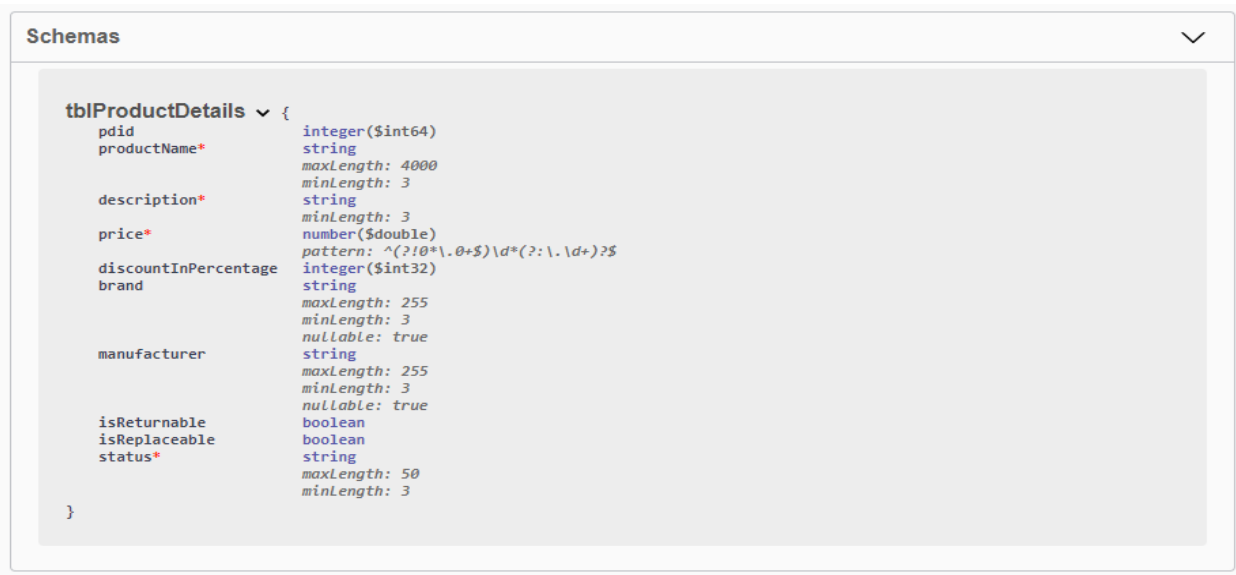
ShopBridge Web APIs

Time Tracking

Aspects of Development	Time
Data store design	10 Minutes
API and service logic	30 Minutes
Unit Test Coverage	30 Minutes

Steps to Run with the screenshots

This is the product schema with all the validation and constraints.



These are the web API services for adding, editing, updating, deleting and listing products.

Product

POST	/api/Product/AddProduct
GET	/api/Product/EditProduct/{id}
PUT	/api/Product/UpdateProduct/{id}
DELETE	/api/Product/DeleteProduct/{id}
GET	/api/Product/GetProducts/{skip}/{take}/search

Step 1

The AddProduct API is for adding a new product, the product name, description and price are required fields. It will also not allow product name and description lesser than 3 characters. It will also not allow the same product name with the same brand.

Click on the Add Product API, then click on “Try It Out”. The request body will be editable now. Add the product details as per the schema. Then click on execute, now you can see the response came from the server.

Product

POST

/api/Product/AddProduct

Parameters

Cancel

No parameters

Request body

application/json

```
{  "pdid": 0,  "productName": "Cheese",  "description": "This is made of milk.",  "price": 255.11,  "discountInPercentage": 0,  "brand": "Amul",  "manufacturer": "Amul",  "isReturnable": false,  "isReplaceable": false,  "status": "Active"}
```

Execute

Clear

Server response

Code Details

200

Response body

```
{
  "data": {
    "pdid": 4,
    "productName": "Cheese",
    "description": "This is made of milk.",
    "price": 255.11,
    "discountInPercentage": 0,
    "brand": "Amul",
    "manufacturer": "Amul",
    "isReturnable": false,
    "isReplaceable": false,
    "status": "Active"
  },
  "success": true,
  "message": "The product has been added successfully."
}
```



Download

Response headers

```
content-length: 286
content-type: application/json; charset=utf-8
date: Sat 07 Aug 2021 07:38:49 GMT
server: Microsoft-IIS/10.0
x-powered-by: ASP.NET
```

Responses

Code	Description	Links
200	Success	No links

POST

/api/Product/AddProduct

Parameters

No parameters

Cancel

Request body

application/json

```
{
  "pid": 0,
  "productName": "Cheese",
  "description": "This is made of milk.",
  "price": 255.11,
  "discountInPercentage": 0,
  "brand": "Amul",
  "manufacturer": "Amul",
  "isReturnable": false,
  "isReplaceable": false,
  "status": "Active"
}
```

ExecuteClear

Responses

Curl

```
curl -X POST "https://localhost:44347/api/Product/AddProduct" -H "accept: */*" -H "Content-type: application/json" -d '{"pid":0,"productName":"Cheese","description":"This is made of milk.","price":255.11,"discountInPercentage":0,"brand":"Amul","manufacturer":"Amul","isReturnable":false,"isReplaceable":false,"status":"Active"}'
```

Request URL

https://localhost:44347/api/Product/AddProduct

Server response

Code

Details

200

Response body

```
{
  "data": {
    "pid": 0,
    "productName": "Cheese",
    "description": "This is made of milk.",
    "price": 255.11,
    "discountInPercentage": 0,
    "brand": "Amul",
    "manufacturer": "Amul",
    "isReturnable": false,
    "isReplaceable": false,
    "status": "Active"
  },
  "success": false,
  "message": "The product already exists!"
}
```

Download

Response headers

```
content-length: 273
content-type: application/json; charset=utf-8
date: Sat 07 Aug 2021 07:46:58 GMT
server: Microsoft-IIS/10.0
x-powered-by: ASP.NET
```

Responses

Code

Description

Links

Step 2

The EditProduct API is for fetching the product to be edited. You just need to pass product id, it will fetch that product from the database.

Click on the Edit Product API, then click on “Try It Out”. Add the product id in to parameters. Then click on execute button.

GET /api/Product/EditProduct/{id}

Parameters

Cancel

Name	Description
id * required	
integer(\$int64)	1
(path)	

Execute

Responses

Code	Description	Links
200	Success	No links

Server response

Code	Details
200	<div>Response body</div> <pre>{ "data": { "pdid": 1, "productName": "Ghee", "description": "This is made of Milk", "price": 235.22, "discountInPercentage": 0, "brand": "Amul", "manufacturer": "Amul", "isReturnable": false, "isReplaceable": false, "status": "Active" }, "success": true, "message": "The product has been fetched successfully."}</pre> <div>Download</div>

Response headers

Responses

Step 3

The UpdateProduct API is for updating any product fetched by Edit Product API.

Click on the Update Product API, then click on “Try It Out”. In the body section add the product details which you want to modify. Then click on execute button.

PUT

/api/Product/UpdateProduct/{id}

Parameters

Cancel

Name	Description
id * required	
integer(\$int64)	1
(path)	

Request body

application/json

```
{  "pdid": 1,  "productName": "Cow Ghee",  "description": "This is made of Milk",  "price": 453.85,  "discountInPercentage": 0,  "brand": "Amul",  "manufacturer": "Amul",  "isReturnable": false,  "isReplaceable": false,  "status": "Active"}
```

Execute

Clear

Server response

Code	Details
200	<div><div>Response body</div><pre>{ "data": { "pdid": 1, "productName": "Cow Ghee", "description": "This is made of Milk", "price": 453.85, "discountInPercentage": 0, "brand": "Amul", "manufacturer": "Amul", "isReturnable": false, "isReplaceable": false, "status": "Active" }, "success": false, "message": "The product already exists!"}</pre><div><div>Download</div></div></div> <div><div>Response headers</div><pre>content-type: application/json; charset=utf-8date: Sat 07 Aug 2021 07:42:38 GMTserver: Microsoft-IIS/10.0x-powered-by: ASP.NET</pre></div>

Responses

Code	Description	Links
200	Success	No links

Step 4

The DeleteProduct API is deleting any product.

Click on the Delete Product API, then click on “Try It Out”. In the parameter section add product id. Then click on execute button. The product will be inactivated instead of physical delete.

DELETE /api/Product/DeleteProduct/{id}

Parameters

Cancel

Name	Description
id * required	
integer(\$int64)	
(path)	

Execute

Responses

Code	Description	Links
200	Success	No links

Responses

Curl

```
curl -X DELETE "https://localhost:44347/api/Product/DeleteProduct/1" -H "accept: */*"
```

Request URL

```
https://localhost:44347/api/Product/DeleteProduct/1
```

Server response

Code	Details
200	<div>Response body</div> <pre>{ "data": { "pdid": 1, "productName": "Cow Ghee", "description": "This is made of Milk", "price": 453.85, "discountInPercentage": 0, "brand": "Amul", "manufacturer": "Amul", "isReturnable": false, "isReplaceable": false, "status": "Inactive" }, "success": true, "message": "The product has been deleted successfully." }</pre> <div>Download</div>

Response headers

```
content-type: application/json; charset=utf-8
date: Sat 07 Aug 2021 07:43:38 GMT
server: Microsoft-IIS/10.0
x-powered-by: ASP.NET
```

Responses

Step 4

The GetProducts API is for fetching all the product by pagination and search option.

Click on the Get Product API, then click on “Try It Out”. In the parameters, pass value for skip to skip the number of records you want to skip, and in take, add number of records you want to take, then add value for search if you want to search anything specific. Then click on execute button.

GET /api/Product/GetProducts/{skip}/{take}/search

Parameters

Cancel

Name	Description
skip * required integer(\$int32) (path)	<input type="text" value="0"/>
take * required integer(\$int32) (path)	<input type="text" value="10"/>
search string (query)	<input type="text" value="search"/>

Execute

Responses

Code	Description	Links
200	Success	No links

Responses

Curl

curl -X GET "https://localhost:44347/api/Product/GetProducts/0/10/search" -H "accept: */*"

Request URL

https://localhost:44347/api/Product/GetProducts/0/10/search

Server response

Code	Details
200	<div>Response body</div> <pre>{ "data": [{ "pdid": 3, "productName": "Ghee", "description": "This is made of Milk", "price": 230.29, "discountInPercentage": 0, "brand": "Avin", "manufacturer": "Avin", "isReturnable": false, "isReplaceable": false, "status": "Active" }, { "pdid": 4, "productName": "Cheese", "description": "This is made of milk.", "price": 255.11, "discountInPercentage": 0, "brand": "Amul", "manufacturer": "Amul", "isReturnable": false, "isReplaceable": false, "status": "Active" }], "success": true, "message": "the product list has been fetched successfully." }</pre> <div> Download</div>

Response headers

```
content-type: application/json; charset=utf-8
date: Sat 07 Aug 2021 07:44:33 GMT
server: Microsoft-IIS/10.0
x-powered-by: ASP.NET
```

Responses

Code	Description	Links
200	Success	No links

GET

/api/Product/GetProducts/{skip}/{take}/search

Parameters

Cancel

Name	Description
skip * required integer(\$int32) (path)	<input type="text" value="1"/>
take * required integer(\$int32) (path)	<input type="text" value="10"/>
search string (query)	<input type="text" value="search"/>

Execute

Clear

Responses

Curl

curl -X GET "https://localhost:44347/api/Product/GetProducts/1/10/search" -H "accept: */*"

Request URL

https://localhost:44347/api/Product/GetProducts/1/10/search

Server response

Code

Details

200

Response body

```
{
  "data": [
    {
      "productId": 1,
      "productName": "Cheese",
      "description": "This is made of milk.",
      "price": 255.11,
      "discountPercentage": 0,
      "brand": "Amul",
      "manufacturer": "Amul",
      "isReturnable": false,
      "isReplaceable": false,
      "status": "Active"
    }
  ],
  "success": true,
  "message": "The product list has been fetched successfully."
}
```

Download

Response headers

```
content-length: 295
content-type: application/json; charset=utf-8
date: Sat, 07 Aug 2021 07:45:21 GMT
server: Microsoft-IIS/10.0
x-powered-by: ASP.NET
```

Responses

Code

Description

Links

GET

/api/Product/GetProducts/{skip}/{take}/search

Parameters

Cancel

Name	Description
skip * required integer(\$int32) (path)	<input type="text" value="0"/>
take * required integer(\$int32) (path)	<input type="text" value="10"/>
search string (query)	<input type="text" value="avin"/>

Execute

Clear

Responses

Curl

curl -X GET "https://localhost:44347/api/Product/GetProducts/0/10/search?search=avin" -H "accept: */*"

Request URL

https://localhost:44347/api/Product/GetProducts/0/10/search?search=avin

Server response

Code	Details
200	<div><div>Response body</div><div><pre>{ "data": [{ "productId": 3, "productName": "Ghee", "description": "This is made of Milk", "price": 230.75, "discountInPercentage": 0, "brand": "Avin", "manufacturer": "Avin", "isDetachable": false, "isReplaceable": false, "status": "Active" }], "success": true, "message": "The product list has been fetched successfully." }</pre><div> Download</div></div><div><div>Response headers</div><div>content-length: 292 content-type: application/json; charset=utf-8 date: Sat 07 Aug 2021 07:46:10 GMT server: Microsoft-IIS/10.0 x-powered-by: ASP.NET</div></div></div>

Responses

Code	Description	Links
200	Success	No links