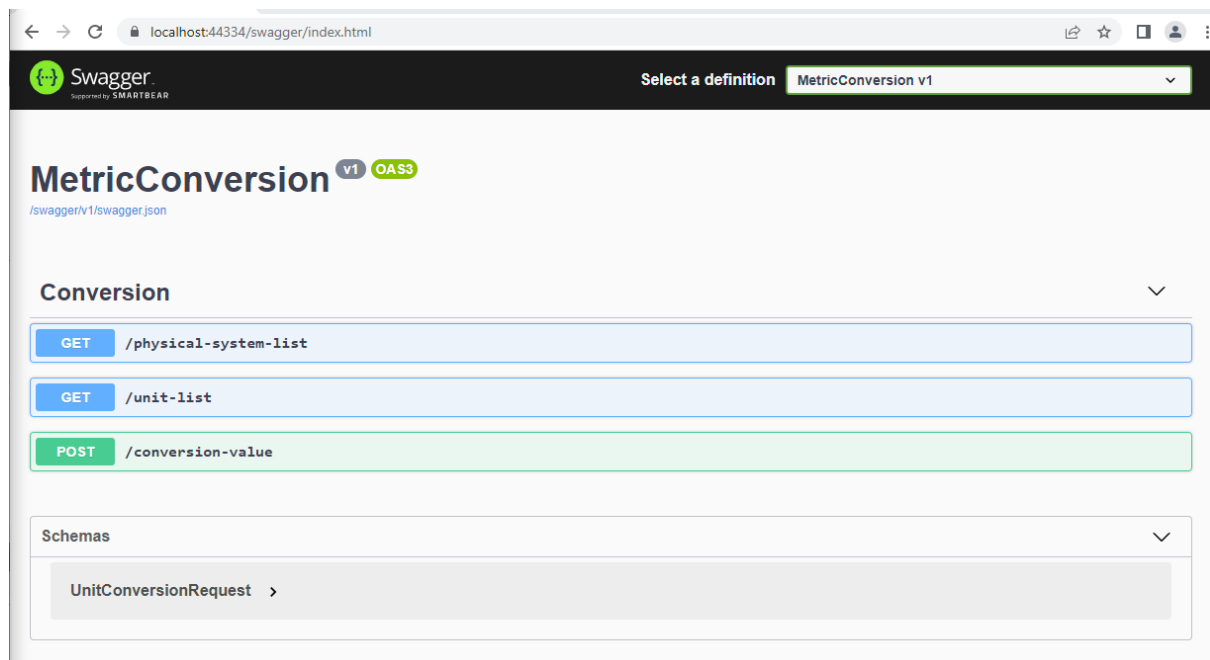
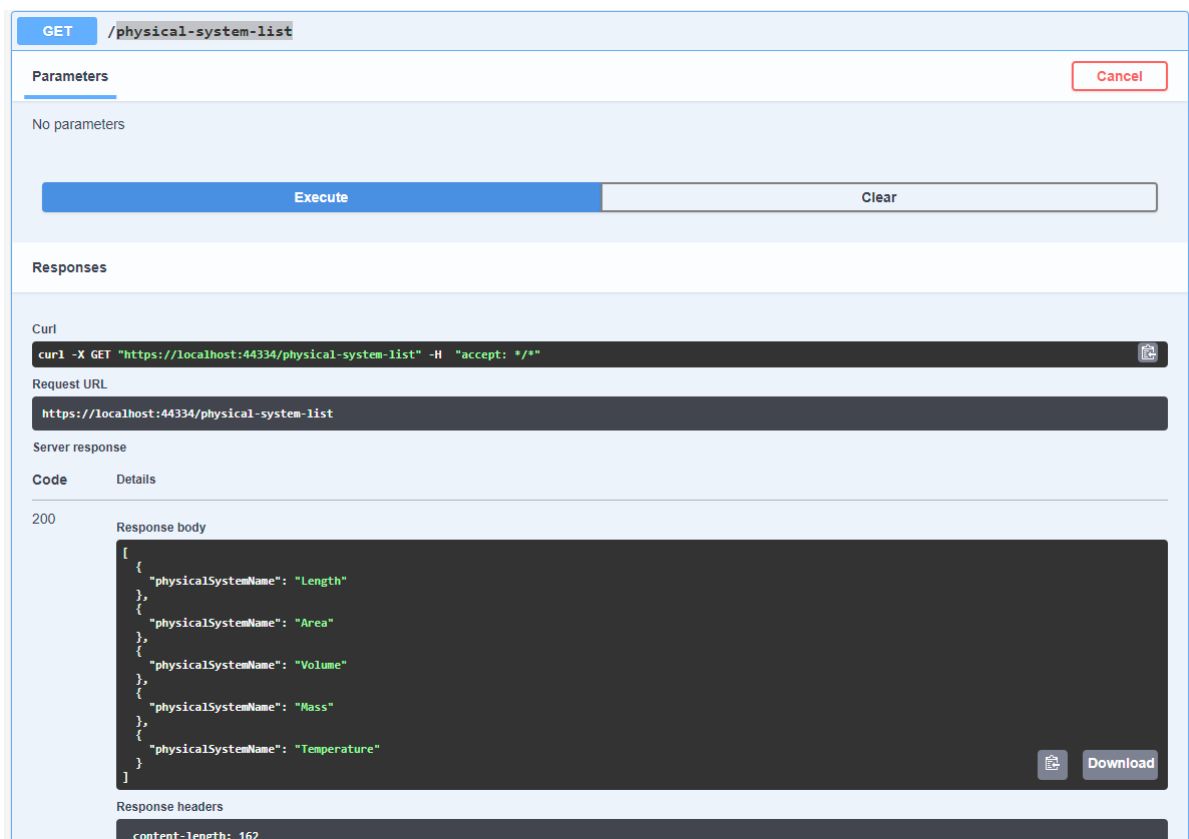


Read Me:

The API contains three end points



The first endpoint '/physical-system-list' list all the physical systems present in db.



The second end point '/unit-list' will list all the units based on the physical system passed as a input parameter.

The screenshot shows a REST client interface with the following sections:

- GET /unit-list**: The endpoint being tested.
- Parameters**: A table with columns 'Name' and 'Description'. It contains one parameter:

Name	Description
PhysicalSystem	Length
- Execute** and **Clear** buttons.
- Responses**:
 - Curl**: `curl -X GET "https://localhost:44334/unit-list?PhysicalSystem=Length" -H "accept: */*"`
 - Request URL**: `https://localhost:44334/unit-list?PhysicalSystem=Length`
 - Server response**:

Code	Details
200	<pre>[{ "unitName": "mm", "conversionType": "Metric" }, { "unitName": "cm", "conversionType": "Metric" }, { "unitName": "m", "conversionType": "Metric" }, { "unitName": "km", "conversionType": "Metric" }, { "unitName": "in", "conversionType": "Imperial" }, { "unitName": "yd", "conversionType": "Imperial" }]</pre>

The third end point will perform operations to convert metric to imperial units and vice versa.

For Length

POST /conversion-value

Parameters

No parameters

Request body

application/json-patch+json

```
{  "initialUnit": "yd",  "initialValue": 1000,  "targetUnit": "m"}
```

Execute

Clear

Responses

Curl

```
curl -X POST "https://localhost:44334/conversion-value" -H "accept: */*" -H "Content-Type: application/json-patch+json" -d '{"initialUnit":"yd","initialValue":1000,"targetUnit":"m"}'
```

Request URL

https://localhost:44334/conversion-value

Server response

Code	Details
200	<div><div>Response body</div><div>914.4</div></div>

For Temperature

POST

/conversion-value

Parameters

No parameters

Request body

application/json

```
{
  "initialUnit": "Celsius",
  "initialValue": 152,
  "targetUnit": "Fahrenheit"
}
```

Execute

Clear

Responses

Curl

```
curl -X POST "https://localhost:44334/conversion-value" -H "accept: */*" -H "Content-Type: application/json-patch+json" -d "{
  \"initialUnit\": \"Celsius\",
  \"initialValue\": 152,
  \"targetUnit\": \"Fahrenheit\"
}"
```

Request URL

https://localhost:44334/conversion-value

Server response

Code

Details

200

Response body

305.6

File 'DB_Schema_Data_MetricConversion' contains schema and data for the DB.
Prior executing the API project, kindly update the Connection String in appsettings.json

```

1  {
2    "Logging": {
3      "LogLevel": {
4        "Default": "Information",
5        "Microsoft": "Warning",
6        "Microsoft.Hosting.Lifetime": "Information"
7      }
8    },
9    "ConnectionStrings": {
10     "DefaultConnection": "Server=.; database=test; user id=.; password=.; Integrated Security=false;Trusted_Connection=false;MultipleActiveResultSets=true;encrypt=false"
11   },
12   "AllowedHosts": "*"
13 }
14

```