

Equipment Rental Application

Solution is implemented as
SQL Server LocalDb,
.NET Core REST API
Angular Front-End

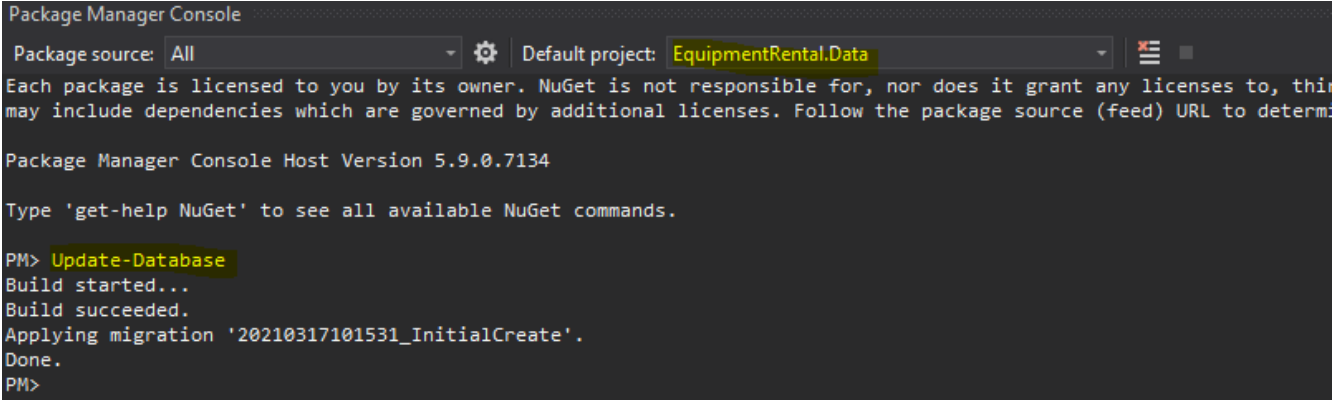
Database setup

Install SQL Server LocalDb

<https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/sql-server-express-localdb?view=sql-server-ver15>

In Visual Studio EquipmentRental.Data project run command

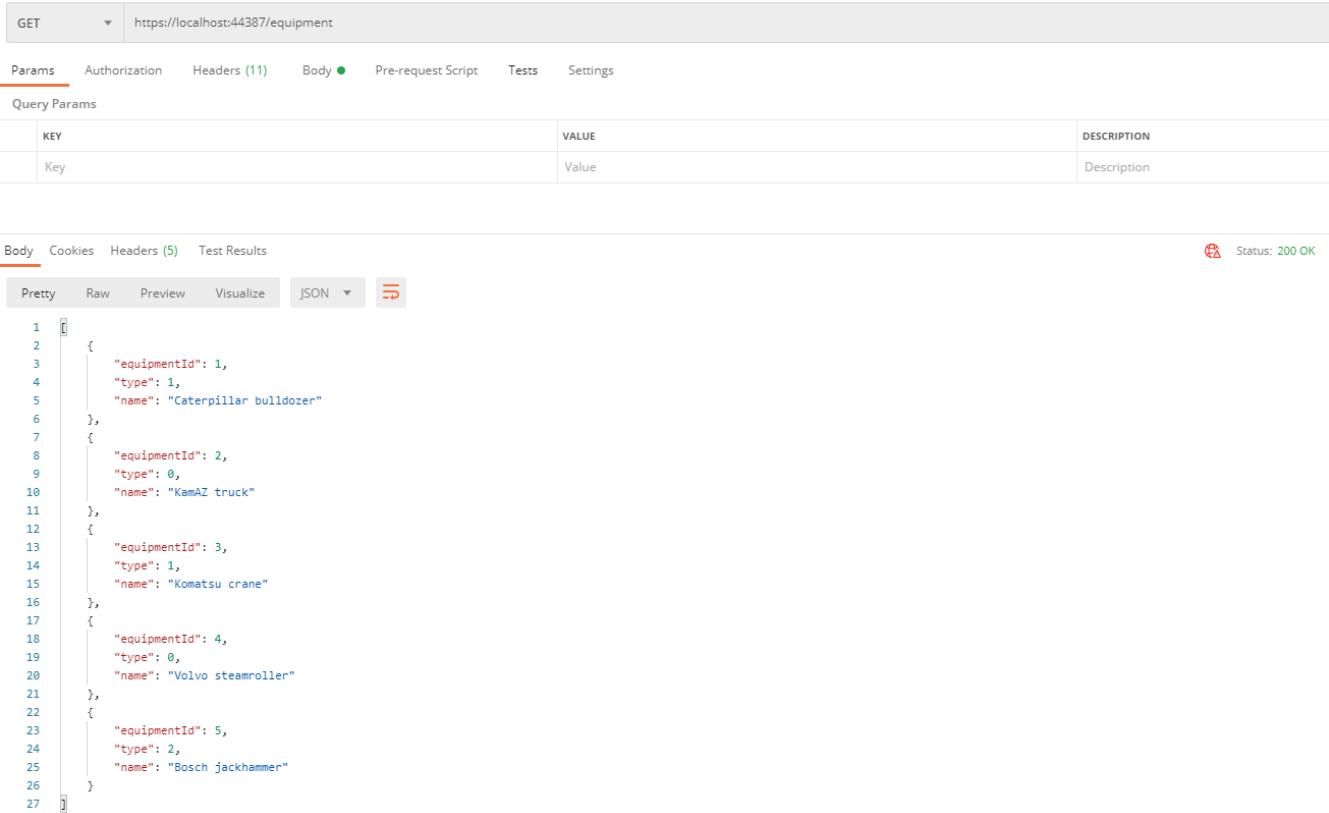
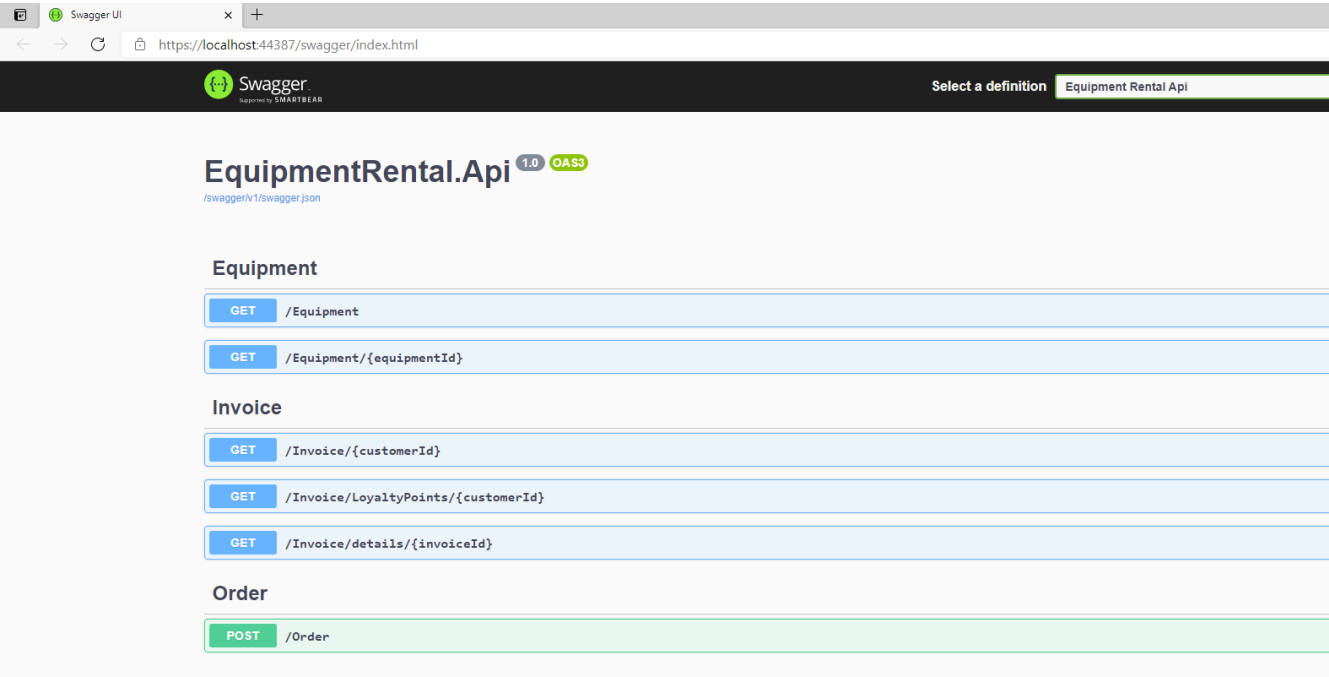
Update-Database

A screenshot of the Visual Studio Package Manager Console. The 'Package source' is set to 'All' and the 'Default project' is 'EquipmentRental.Data'. The console output shows the command 'Update-Database' being executed, followed by 'Build started...', 'Build succeeded.', and 'Applying migration '20210317101531_InitialCreate''. The prompt 'PM>' is visible at the bottom.

```
Package Manager Console
Package source: All Default project: EquipmentRental.Data
Each package is licensed to you by its owner. NuGet is not responsible for, nor does it grant any licenses to, this
may include dependencies which are governed by additional licenses. Follow the package source (feed) URL to determi
Package Manager Console Host Version 5.9.0.7134
Type 'get-help NuGet' to see all available NuGet commands.
PM> Update-Database
Build started...
Build succeeded.
Applying migration '20210317101531_InitialCreate'.
Done.
PM>
```

Full backup EquipmentRental.bak is in folder /Database. After restore please update in appsettings.json the connection string parameter `ConnectionStrings: EquipmentRental`

API documentation generated in Swagger



API Equipment list end point

POST https://localhost:44387/Order

Params Authorization Headers (11) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 [{
2   "EquipmentId": 1,
3   "Quantity": 1
4 },
5 {
6   "EquipmentId": 2,
7   "Quantity": 4
8 }
9 ]
```

Body Cookies Headers (5) Test Results Status: 200 OK

Pretty Raw Preview Visualize JSON

```
1 {
2   "invoiceId": 5,
3   "invoiceSum": 460,
4   "loyaltyPoints": 3
5 }
```

API Order POST end point

GET https://localhost:44387/invoice/details/5

Params Authorization Headers (11) Body Pre-request Script Tests Settings

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (5) Test Results Status: 200 OK

Pretty Raw Preview Visualize JSON

```
1 {
2   "invoiceId": 5,
3   "invoiceSum": 460.00,
4   "loyaltyPoints": 3,
5   "invoiceRows": [
6     {
7       "equipment": "Caterpillar bulldozer",
8       "rowSum": 160.00
9     },
10    {
11      "equipment": "KamAZ truck",
12      "rowSum": 300.00
13    }
14  ]
15 }
```

API Invoice Detail end point

Front End

EquipmenteRentalApp

localhost:4200/products

Equipment rentalProductsInvoicesCart

Products

[Caterpillar bulldozer](#)[KamAZ truck](#)[Komatsu crane](#)[Volvo steamroller](#)[Bosch jackhammer](#)

Product list

EquipmenteRentalApp

localhost:4200/invoices

Equipment rentalProductsInvoicesCart

Invoices

Total Loyalty Points 7

ID	Sum	Loyalty Points
1	160	2
2	460	3
3	460	1
4	340	1

EquipmenteRentalApp

localhost:4200/products/2

Equipment rentalProductsInvoicesCart

KAMAZ TRUCK

Product detail and add to cart

Number of days to rent:

Order

EquipmenteRentalApp

localhost:4200/cart

Equipment rentalProductsInvoicesCart

Shopping Cart

Checkout

Equipment	Days
KamAZ truck	7

Shopping Cart and Checkout