Nomenclature Demo
Technical Guide

Contents

About this Document

The scope of this document is to offer all the information required to set up the NomenclatureDemo web application as well as to present its web interface operations.

The NomenclatureDemo is a demonstrative application of an article nomenclature, that was build utilizing ASP.NET Core and Razor Pages. This application should follow the Model-View-ViewModel (MVVM) pattern, which should help facilitate the separation of the application's business and presentation logic from its user interface (UI).

To learn more about the mentioned technologies please check the below links:

- Learn about building Web apps with ASP.NET Core.

- Learn about Razor Pages in ASP.NET Core.

1. Installation and Configuration

The application should just be extracted, configured and run.

Once extracted and configured, the application can be started using the *~/NomenclatureDemo.exe* executable.

It should include all the needed runtime files in order to run as a standalone application.

1.1. Pre-requirements

A running and accessible SQL server will be needed prior to starting the NomenclatureDemo application.

If no SQL server is available, one can be install using the below references:

- SQL server 2022 Express is a free edition of SQL Server, ideal for development and production for desktop, web, and small server applications.
- SQL Server Management Studio (SSMS) is an integrated environment for managing any SQL infrastructure, from SQL Server to Azure SQL Database.

1.2. Configuration

All the needed configurations are contained in the *~/appsettings.json* file.

1.2.1. Database connection string

Configuration option used to connect to the SQL database. Please find below an example:

```
  "ConnectionStrings": {

    "DbConnection": "server=.\\SQLEXPRESS;database=NomenclatureDemo;User
Id=demodba;Password=1qaz@wsx;Encrypt=false;TrustServerCertificate=true;"

  }
```

1.2.2. Application URLs

Utilized for the endpoint configuration.

```
"Urls": "http://*:5001;https://*:6002"
```

1.2.3. Language-Culture

It permits setting the default language-culture parameter. This option will have an impact on the required user input format.

If this parameter is set as null, the default will be set to "en-GB" which uses below data formats:

- Date format: dd/mm/yyyy
- Number format: 4,294,967,295.00

```
"DefaultCulture": {

  "DefaultLanguagCulture": "en-GB"

},
```

Null value example:

```
"DefaultLanguagCulture": null
```

2. User interface

2.1. Welcome page

Can be accessed by clicking the left side NomenclatureDemo logo, and it contains a short description of the application.

NomenclatureDemo   Articles   Administration   Privacy

Welcome

This is a demonstration of creating an article nomenclature, utilizing ASP.NET Core and Razor Pages.
This application should follow the Model-View-ViewModel (MVVM) pattern, which should help facilitate the separation of the application's business and presentation logic from its user interface (UI).
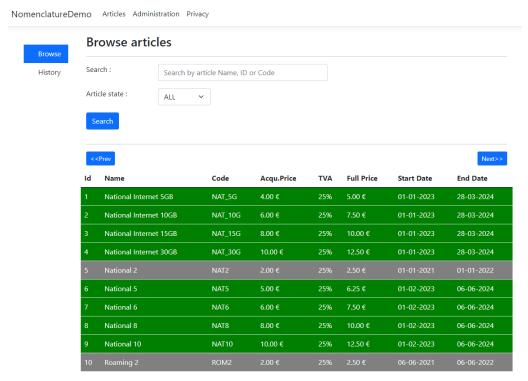
To learn more about the mentioned technologies please check the links below:

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2.2.   Articles
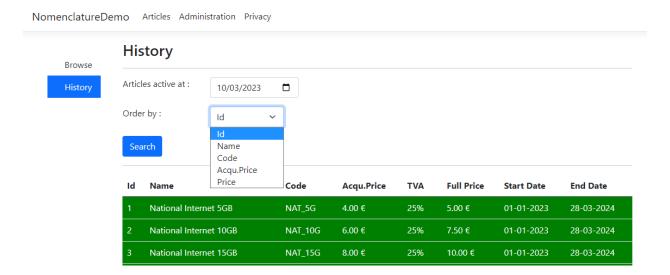
2.2.1. Browse articles

Provides the option of viewing all the available articles, searching and filtering by state.
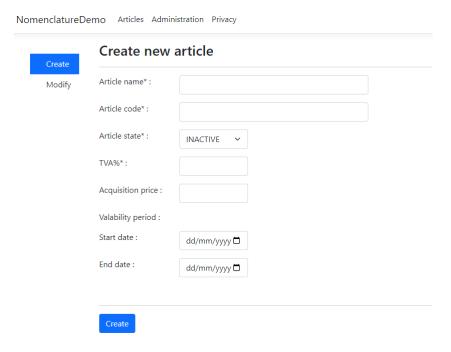

2.2.2. History

Permits viewing the articles that are active at a certain date, with a few ordering options.
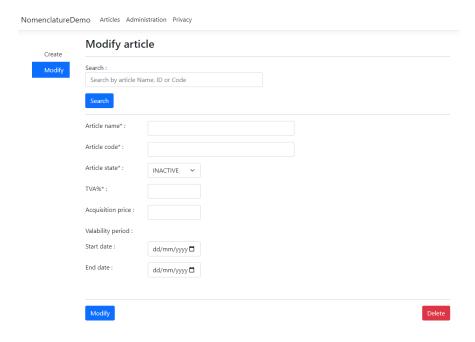
2.3.   Administration

2.3.1. Create new article

Permits the creation of new articles. All the fields mark with *(asterisk) being mandatory.

2.3.2. Modify article

Permits editing and updateing or deleting existing article.

2.4. Privacy Policy

Contains privacy related information.

3. Database structure

Below is a preview of the database structure that was utilized in this demo.

3.1. Mock data seed

3.1.1. Articles

ID	NAME	CODE	STATE
1	National Internet 5GB	NAT_5G	ACTIVE
2	National Internet 10GB	NAT_10G	ACTIVE
3	National Internet 15GB	NAT_15G	ACTIVE
4	National Internet 30GB	NAT_30G	ACTIVE
5	National 2	NAT2	INACTIVE
6	National 5	NAT5	ACTIVE
7	National 6	NAT6	ACTIVE
8	National 8	NAT8	ACTIVE
9	National 10	NAT10	ACTIVE
10	Roaming 2	ROM2	INACTIVE
11	Roaming 4	ROM4	ACTIVE
12	Roaming 15	ROM15	ACTIVE
13	Roaming 40	ROM40	ACTIVE
14	International 100Min/SMS	INTER100	ACTIVE
15	International 300Min/SMS	INTER300	ACTIVE
16	International 500Min/SMS	INTER500	INACTIVE
17	Exclusive 6	EXCL6	ACTIVE
18	Exclusive 8	EXCL8	ACTIVE
19	Combo 5	COMBO5	INACTIVE
20	Combo 7	COMBO7	INACTIVE

3.1.2. ArticlePropertys

ID	CODE	TVA	Acqu.Price	FullPrice	StartDate	EndDate
1	NAT_5G	0.25	4	5	2023-01-01	2024-03-28
2	NAT_10G	0.25	6	7.5	2023-01-01	2024-03-28
3	NAT_15G	0.25	8	10	2023-01-01	2024-03-28
4	NAT_30G	0.25	10	12.5	2023-01-01	2024-03-28
5	NAT2	0.25	2	2.5	2021-01-01	2022-01-01
6	NAT5	0.25	5	6.25	2023-02-01	2024-06-06
7	NAT6	0.25	6	7.5	2023-02-01	2024-06-06
8	NAT8	0.25	8	10	2023-02-01	2024-06-06
9	NAT10	0.25	10	12.5	2023-02-01	2024-06-06
10	ROM2	0.25	2	2.5	2021-06-06	2022-06-06
11	ROM4	0.25	4	5	2021-05-24	2024-08-06
12	ROM15	0.25	15	18.75	2021-05-24	2024-08-06
13	ROM40	0.25	40	50	2021-05-24	2024-08-06
14	INTER100	0.25	2	2.5	2021-05-24	2024-08-06
15	INTER300	0.25	4	5	2021-05-24	2024-08-06
16	INTER500	0.25	6	7.5	2021-06-06	2022-06-06
17	EXCL6	0	6	6	2022-02-01	2024-08-06
18	EXCL8	0	8	8	2022-02-01	2024-08-06
19	COMBO5	0.25	5	6.25	2022-06-06	2023-01-01
20	COMBO7	0.25	7	8.75	2022-06-06	2023-01-01