

Museum Test

Backend:

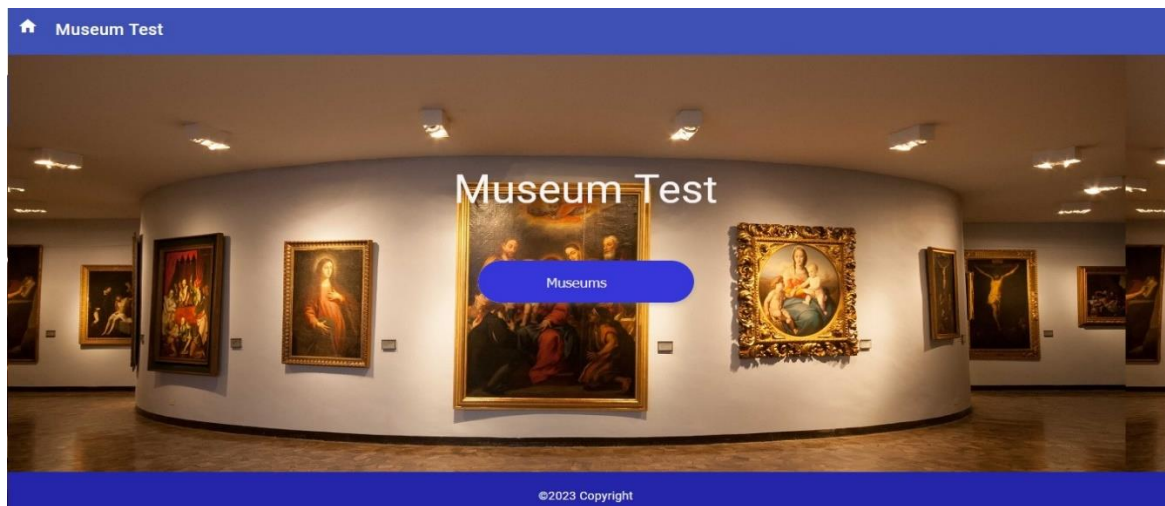
- Technologies: .NET 6, Entity Framework Core, SQL Server 2019.
- Architecture: N-layer architecture -> Onion Architecture.
- Layers:
 1. **MuseumTest.Domain:** It is the center part of the architecture. It holds all application domain objects. This layer holds POCO classes (Code First) with entities. These domain entities don't have any dependencies.
 2. **MuseumTest.Repository:** The layer is intended to create an abstraction layer between the Domain entities layer and the Business Logic layer of the application. It is a data access pattern that prompts a more loosely coupled approach to data access. We create a generic repository, which queries the data source for the data, maps the data from the data source to a business entity, and persists changes in the business entity to the data source.
 3. **MuseumTest.Services:** The layer holds interfaces which are used to communicate between the UI layer and repository layer. It holds business logic for an entity so it's called the business logic layer as well.
 4. **MuseumTest:** It's the most external layer. It is a Web API. This layer has an implementation of the Dependency Inversion Principle so that the application builds a loosely coupled application. It communicates to the internal layer via interfaces and communicates to the client with controllers.

Frontend:

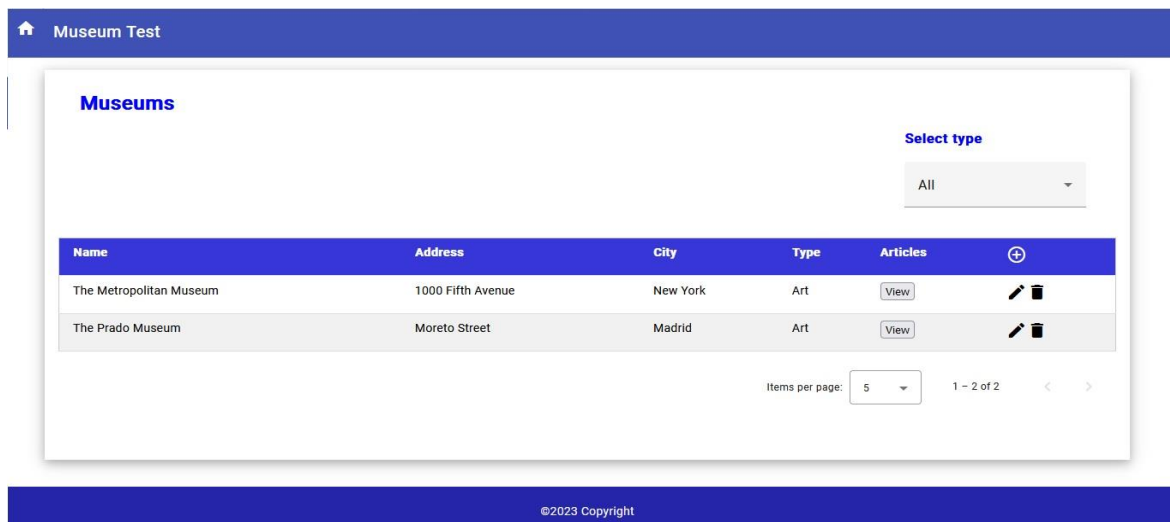
- Technologies: Angular version 15.0.4.
- The application includes components-based scalable framework for building the UI.
- The services contain methods that maintain data throughout the life of the application, data is available all the time. They contain also functions to connect with the backend.
- The models are using for modeling the data used in the view and handling user interactions such as clicking on buttons, scrolling, or causing other changes in the view.

User Manual

- **Execution:**
 1. Open Visual Studio 2022 in MuseumTest route.
 2. Build the solution.
 3. In *package manager console* execute the command *add-migration <mig-name>*.
 4. In *package manager console* execute the command *update-database*.
 5. Ctrl+F5.
 6. In MuseumTestUI open a console and run the command *npm install*.
 7. In the console run the command *ng-serve -o*.
- Work with application.
 - Presentation.



- List of museums (pagination).



- Select museums by theme.

[Home](#) Museum Test

Museums

Select type

All

All

Art

Natural Science

History

Name	Address	City	Type	Article
The Metropolitan Museum	1000 Fifth Avenue	New York	Art	View
The Prado Museum	Moreto Street	Madrid	Art	View

Items per page: 5 1 - 2 of 2

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- Create a museum.

[Home](#) Museum Test

Create

Name

Address

City

Type

Art

Accept

Cancel

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🏠

Museum Test

Museums

Select type

All

Name	Address	City	Type	Articles	⊕
The Metropolitan Museum	1000 Fifth Avenue	New York	Art	<div>View</div>	<div><div></div><div></div></div>
The Prado Museum	Moreto Street	Madrid	Art	<div>View</div>	<div><div></div><div></div></div>
The National Gallery	Central London	London	Art	<div>View</div>	<div><div></div><div></div></div>

Items per page: 5 1 - 3 of 3

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- Edit a museum.

🏠

Museum Test

Update

Name

The National Gallery

Address

Central London

City

London

Type

Natural Science

Accept

Cancel

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Museum Test

Museums

Select type

All

Name	Address	City	Type	Articles	
The Metropolitan Museum	1000 Fifth Avenue	New York	Art	<div>View</div>	<div><div></div><div></div></div>
The Prado Museum	Moreto Street	Madrid	Art	<div>View</div>	<div><div></div><div></div></div>
The National Gallery	Central London	London	Natural Science	<div>View</div>	<div><div></div><div></div></div>

Items per page: 5 1 - 3 of 3

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- Delete a museum.

Museum Test

Museums

Select type


All

Name	Address	City	Type	Articles	
The Metropolitan Museum	1000 Fifth Avenue	New York	Art	<div>View</div>	<div><div></div><div></div></div>
The National Gallery	Central London	London	Natural Science	<div>View</div>	<div><div></div><div></div></div>






Items per page: 5 1 - 2 of 2

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- List article from the museum(pagination).

 Museum Test


Articles: The Metropolitan Museum

Name	Description	Damaged	
DENDUR TEMPLE, EGYPT	The Temple of Dendur is a Roman Egyptian religious structure originally	No	 
JUAN DE PAREJA, DIEGO VELAZQUEZ.	It is one of the most outstanding portraits painted by Velázquez	Yes	 

Items per page: 5 1 - 2 of 2 < >

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- Create Article.

 Museum Test

Create

Title

nan with a Water Pitcher

Description

is an American collection

Is Damaged

☐

Museum







The Metropolitan Mu... ▾

AcceptCancel

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[Home](#) Museum Test

Articles: The Metropolitan Museum

Name	Description	Damaged	
DENDUR TEMPLE, EGYPT	The Temple of Dendur is a Roman Egyptian religious structure originally	No	 
JUAN DE PAREJA, DIEGO VELAZQUEZ.	It is one of the most outstanding portraits painted by Velázquez	Yes	 
Young Woman with a Water Pitcher	The first work by Vermeer to enter an American collection	No	 

Items per page:

5

 1 - 3 of 3

<

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- Edit Article (Relocate, change description, damaged status and other properties).

[Home](#) Museum Test

Update

Title

DENDUR TEMPLE, EGYPT

Description

The Temple of Dendur is

Is Damaged

☒


Relocate

The Metropolitan Mu... ▾








Accept

Cancel

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 Museum Test


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Items per page: 5 1 – 3 of 3 < >

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- Delete Article.

 Museum Test

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