

Component needed:

- Service Layer: A WebAPI rest service. Business logic must be here.
- Web Layer: Consuming the service and provides a UI.
- Data Layer: Sql Express.

Deliverables

- VS Solution with several projects that can be run with F5.
- A Sql Express database included in the VS Solution, with sample data.

We will measure:

1. Degree of completeness.
2. Business logic: validation.
3. Code quality: low coupling, coding standards, low code complexity, readability.
4. Performance.

Bonus:

1. Logging.
2. Unit tests.
3. UI features: ajax, responsive web design.

User stories:

1. Product list basic.

As a product manager

I want to be able to view the product list

So I can see the products in the system.

A product is `Product(Id, Name, Description)`

Acceptance criteria.

A list of products is displayed.

2. Add product.

As a product manager

I want to be able to create a new product

So I can populate the list

Acceptance criteria

An added product is displayed on the list.

Empty fields are not allowed.

3. Edit product.

As a product manager

I want to edit a product

So I can modify it's Name and Description

Acceptance criteria

A modified product can be seen from the list.

Empty fields are not allowed.

4. List products advanced.

As a product manager

I want to be able to order and page on the product list
So I can find products easier

Acceptance criteria

The list can be ordered asc and desc by any product field.

Only top 10,20,50 elements are shown

Arbitrary pagination is possible

5. Edit product advanced.

As a product manager

I want to link providers to a product.

So I can keep track of current providers.

Note:

Assume providers as existing data belonging to a different part of the system.

Acceptance criteria

When editing a product I can see the current list of providers.

When added a new provider it's shown in that list.

When removing a provider it's removed from that list.

Duplicated providers are not allowed.