

Module 06:

"Validation"



Agenda

- ▶ Introduction
- ▶ **Validation using FluentValidation**
- ▶ MediatR Pipelines and Behaviors
- ▶ Summary



Types of Validation

- ▶ Model Validation
 - In Presentation (or in entry to Application)
- ▶ Domain Validation
 - Business rules in Domain



FluentValidation

- ▶ Freely available nuget package
 - <https://docs.fluentvalidation.net/en/latest/>
- ▶ **FluentValidation** is a .NET library for building strongly-typed validation rules using a Fluent API syntax
- ▶ Additionally;
 - `FluentValidation.AspNetCore`



FluentValidation Basics

- ▶ Define type-safe validator for specified object

```
public class CustomerDtoValidator : AbstractValidator<CustomerDto>
{
    public CustomerDtoValidator()
    {
        RuleFor(customer => customer.Age).LessThan(100);
        RuleFor(customer => customer.FullName).NotNull();
    }
}
```

```
record class CustomerDto
{
    int Age { ... }
    string FullName { ... }
}
```

```
CustomerDto customer = new CustomerDto() { ... };
CustomerDtoValidator validator = new CustomerDtoValidator();

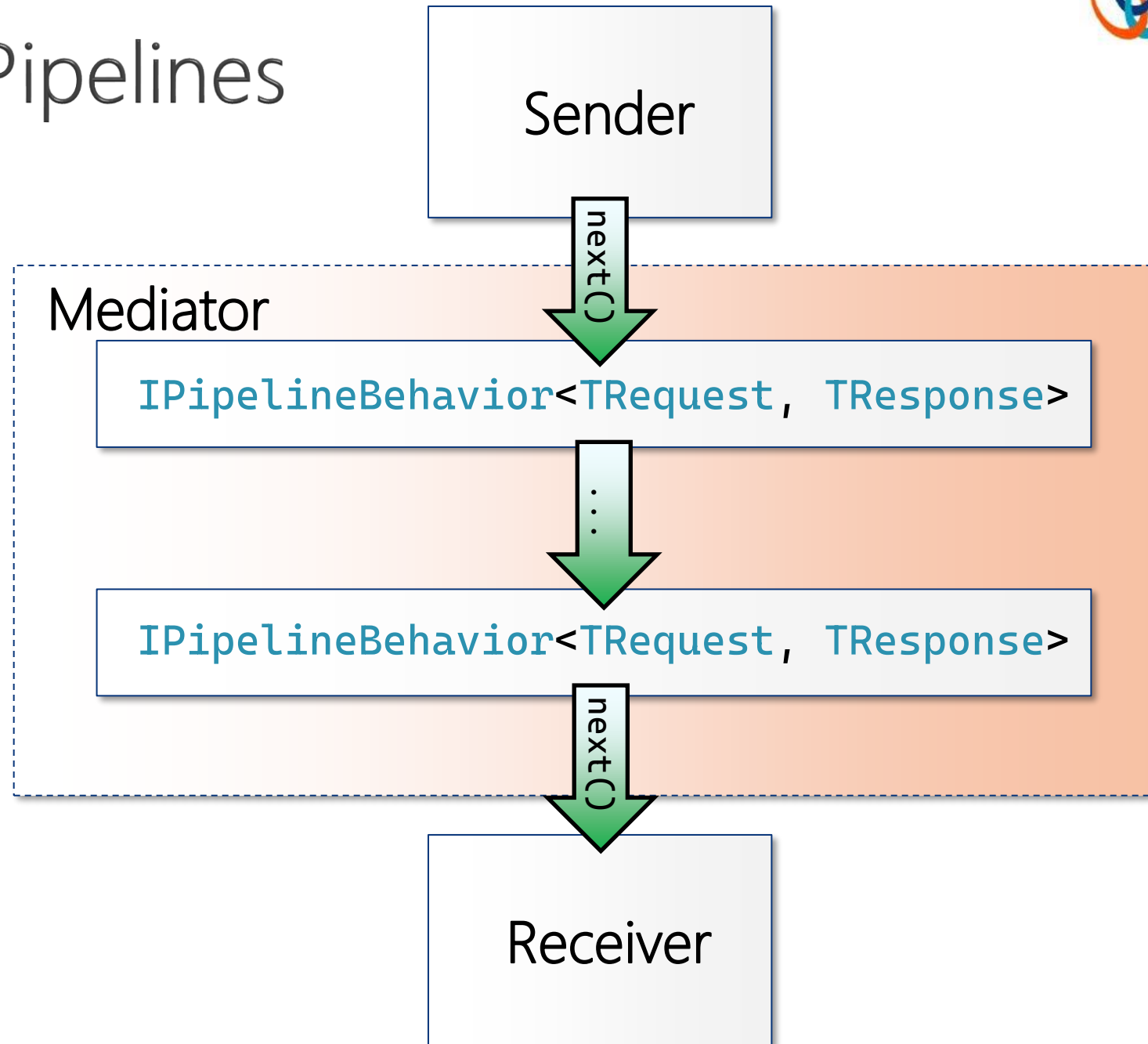
ValidationResult result = validator.Validate(customer);
```

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MediatR Pipelines



Registering MediatR Pipeline Behaviors

```
services.AddMediatR(cfg =>
{
    cfg.AddBehavior<IPipelineBehavior<TRequest, TResponse>, ValidatorBehavior>();
});
```

```
services.AddMediatR(cfg =>
{
    cfg.AddOpenBehavior(typeof(GenericValidatorBehavior<,>);
});
```



Registering All Validators

- ▶ Use add-on nuget package **FluentValidation.AspNetCore**

```
services  
    .AddValidatorsFromAssemblyContaining(typeof(DependencyInjection));
```

- ▶ **Note:** This registers all public validators in the specific assembly



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