



DESARROLLO PROFESIONAL CON ASP.NET CORE





Modelo en Base Datos



CleanArchitecture. Application

- MediatR.Extensions.Microsoft.DependencyInjection
- FluentValidation
- FluenteValidation.DependencyInjectionExtensions
- AutoMapper
- AutoMapper.Extensions.Microsoft.Depedency
- Microsoft.Extensions.Logging.Abstractions

Referencia de proyecto desde CleanArchitecture.Domain

CleanArchitecture.Infrastructure

- Microsoft.EntityFrameworkCore.SqlServer
- SendGrid

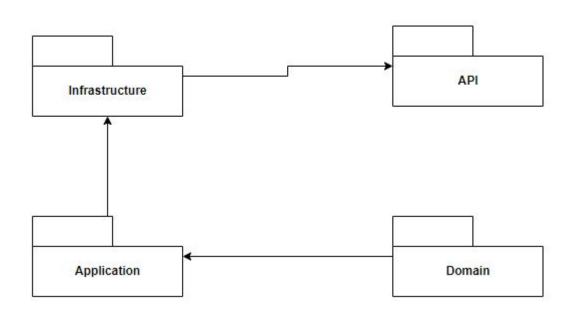
Referencia de proyecto desde CleanArchitecture.Application

CleanArchitecture.API

Microsoft.EntityFrameworkCore.Tools

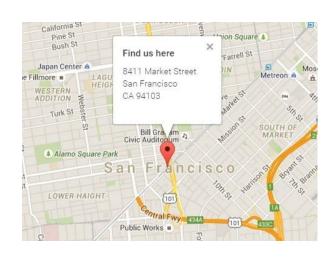
- Referencia de proyecto desde CleanArchitecture.Infrastructure
- Referencia de proyecto desde CleanArchitecture.Application

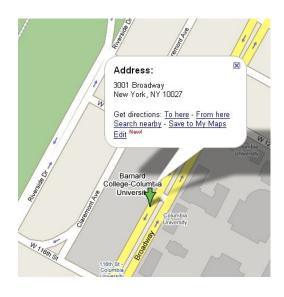
Solucion Referencias



Value Objects en Domain Driven Design

Los valores o estados de sus propiedades lo hacen unico





Func<T> vs Expression<Func<T>> y Linq

IEnumerable

in-memory

Func<T>

Where(Func<T, bool> predicate)

Where(x => x.property == "value")

IQueryable

SQL Server

Expression<Func<T>>

Where(Expression<Func<T, bool>> predicate)

Where(x => x.property == "value")

Func<T> vs Expression<Func<T>> y Linq

```
Delegate
Func<Video, string>
                                                   var videos = new List<Video>
                                                          new Video{ Nombre = "matrix"},
 class Video {
   public string? Nombre { get; set; }
                                                          new Video{ Nombre = "mad max"},
                                                          new Video{ Nombre = "avatar"}
```

Func<Video, string> selector = video => "Pelicula:" + video.Nombre;

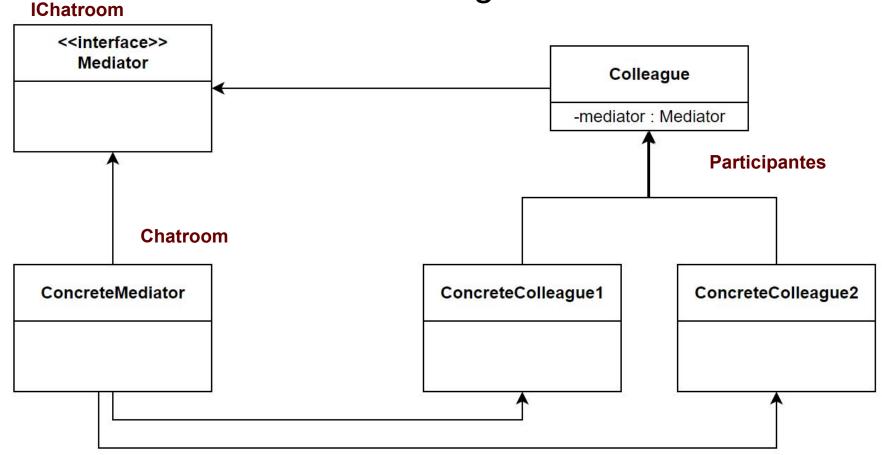


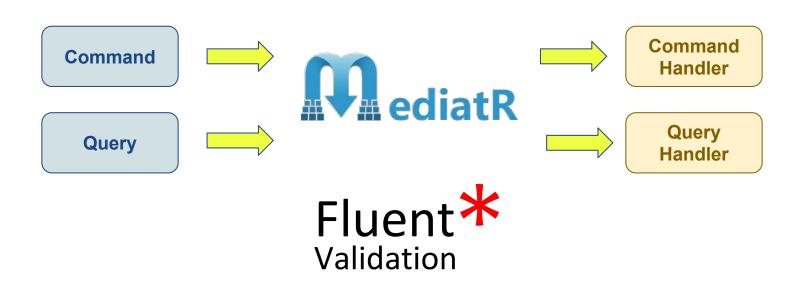
```
IEnumerable<string> videoTitulos = videos.Select(selector);
foreach(string titulos in videoTitulos ){
     Console.WriteLine(titulos);
```

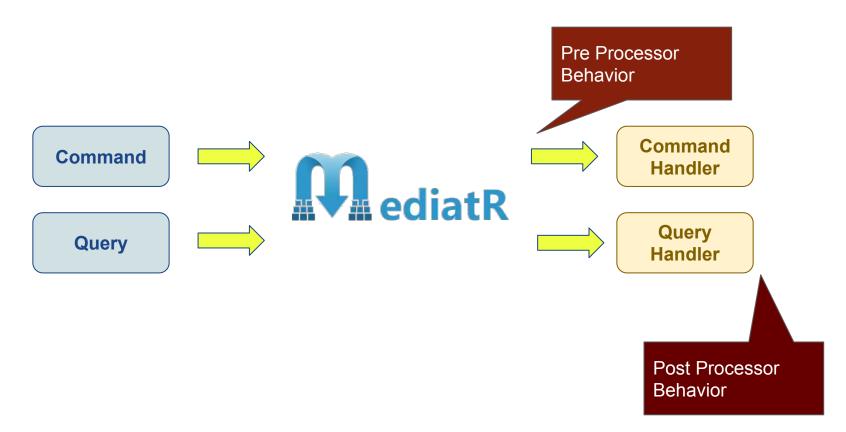
Func<T> vs Expression<Func<T>> y Linq

```
Expression Func<Video, bool>
  class Video {
    public string? Nombre { get; set; }
                                                     SQL Server
Expresion<Func<Video, bool>> expression = u => u.Nombre == "matrix"
```

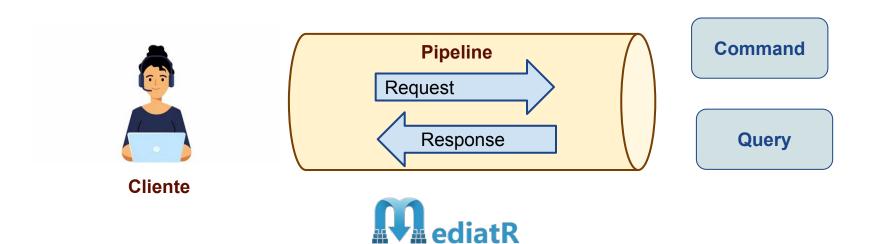
```
var videos = dbContext.Videos.Where(expression).Select(u=>u).ToList();
foreach(string titulos in videoTitulos ){
    Console.WriteLine(titulos);
}
```



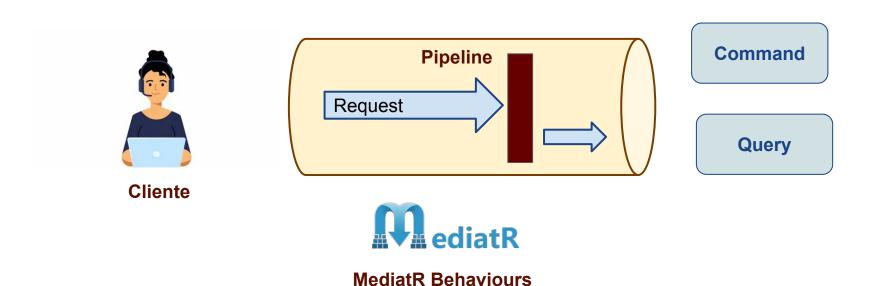




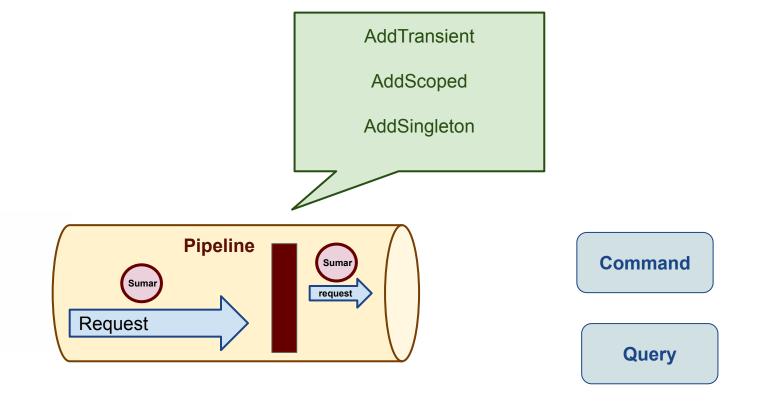
Behaviours



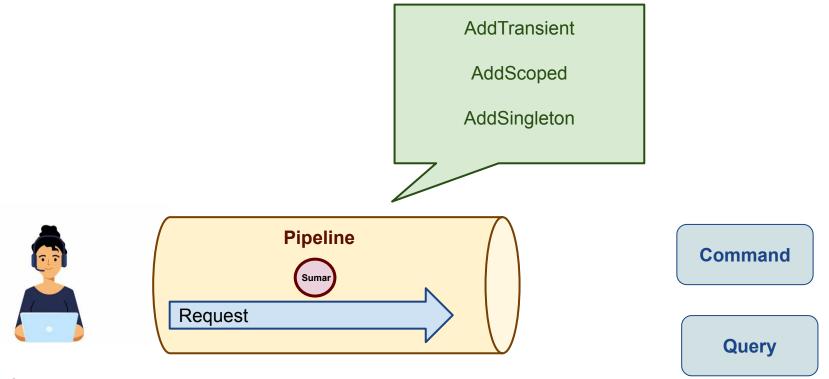
MediatR Behaviours



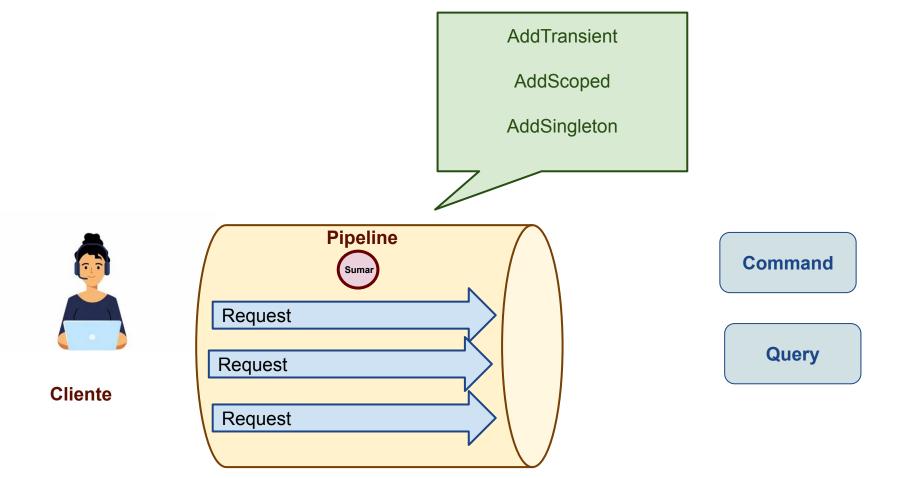
```
public class CreateStreamerCommandHandler : IRequestHandler<CreateStreamerCommand, int>
   private readonly IStreamerRepository _streamerRepository;
   private readonly IMapper _mapper;
   private readonly IEmailService _emailservice;
   private readonly ILogger<CreateStreamerCommandHandler> _logger;
   public CreateStreamerCommandHandler(IStreamerRepository, IMapper mapper, IEmailService, ILogger<CreateStreamerCommandHandler> logger)
       _streamerRepository = streamerRepository;
       _mapper = mapper;
       _emailservice = emailservice;
       _logger = logger;
   public async Task<int> Handle(CreateStreamerCommand request, CancellationToken cancellationToken)
       var streamerEntity = _mapper.Map<Streamer>(request);
       var newStreamer = await _streamerRepository.AddAsync(streamerEntity);
       _logger.LogInformation($"Streamer {newStreamer.Id} fue creado existosamente");
       await SendEmail(newStreamer);
       return newStreamer.Id;
   private async Task SendEmail(Streamer streamer)
       var email = new Email
           To = "vaxi.drez.social@gmail.com",
           Body = "La compania de streamer se creo correctamente",
           Subject = "Mensaje de alerta"
       3:
       try
           await _emailservice.SendEmail(email);
       catch (Exception ex) {
           _logger.LogError($"Errores enviando el email de {streamer.Id}");
```



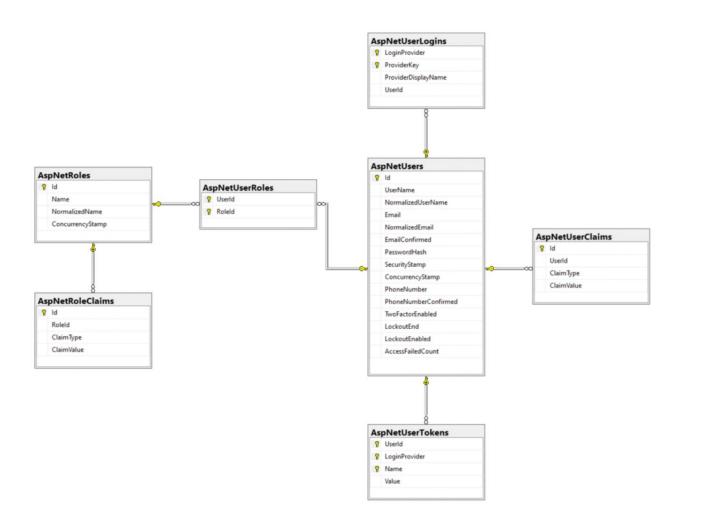
Cliente



Cliente



Tipo Servicio	En el ambiente pipeline de un mismo http request	En diferentes http requests
Transient	New Instance	New Instance
Scoped	Same Instance	New Instance
Singleton	Same Instance	Same Instance





Events

Queries



Events

Queries

AbrirCuentaAhorrosCommand

DepositarDineroCommand

Commands



Queries

Commands



Queries

El origen de los events son los Aggregate

Los aggregate disparan eventos

Commands



Queries

CuentaCorrienteCreadaEvent

DineroDepositadoEvent