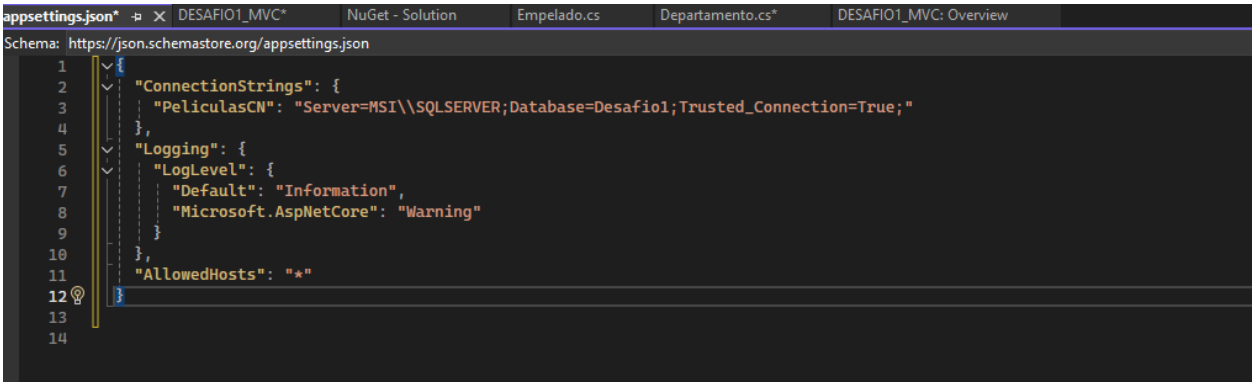
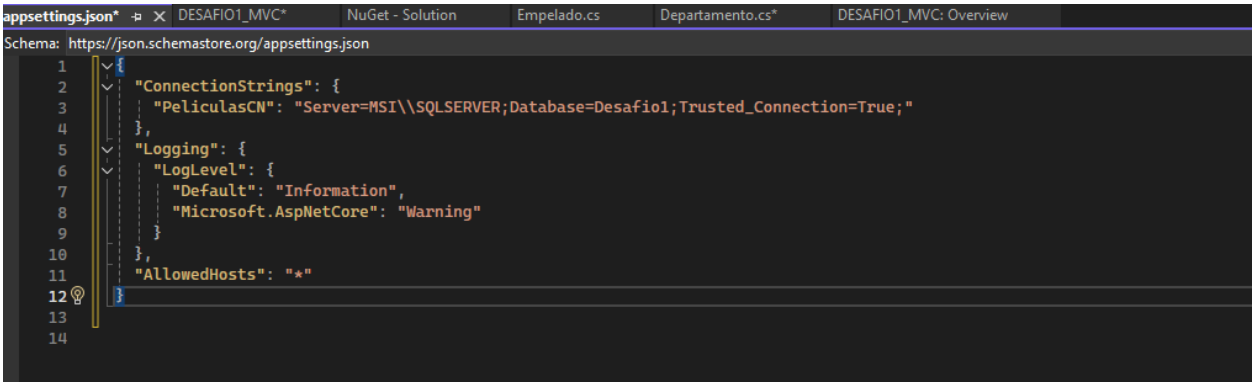
Desafío 1

Date	@8 de agosto de 2024 → 10 de agosto de 2024
Materia	Desarrollo de Software Empresarial

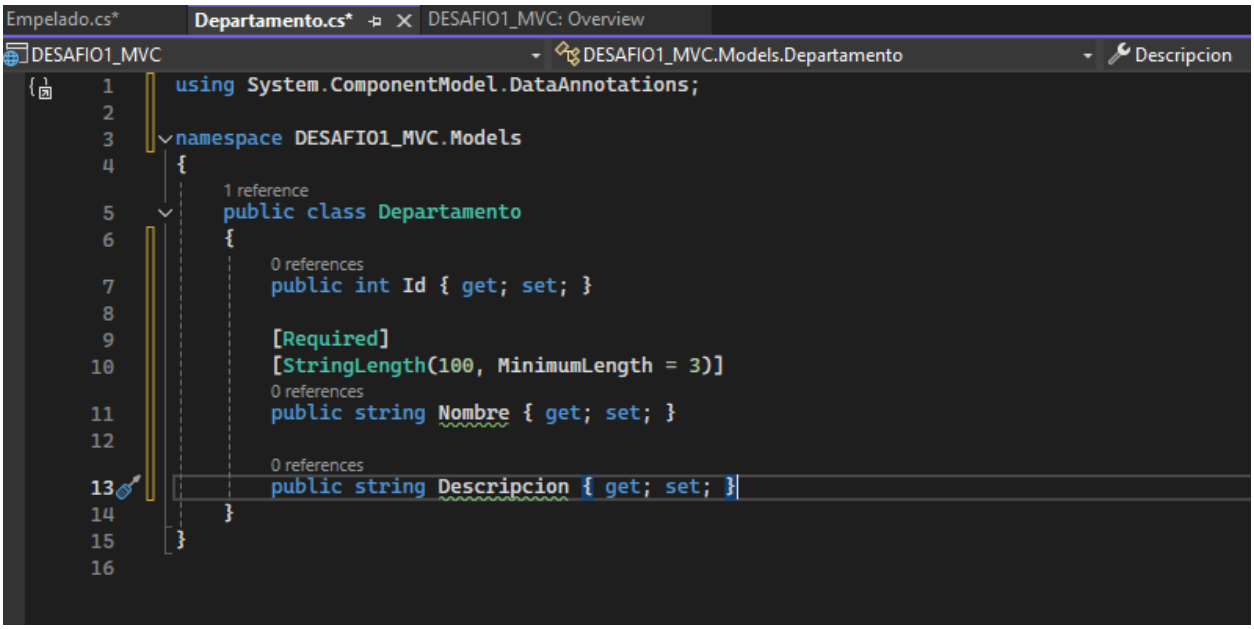
MVC

Configuración de archivos

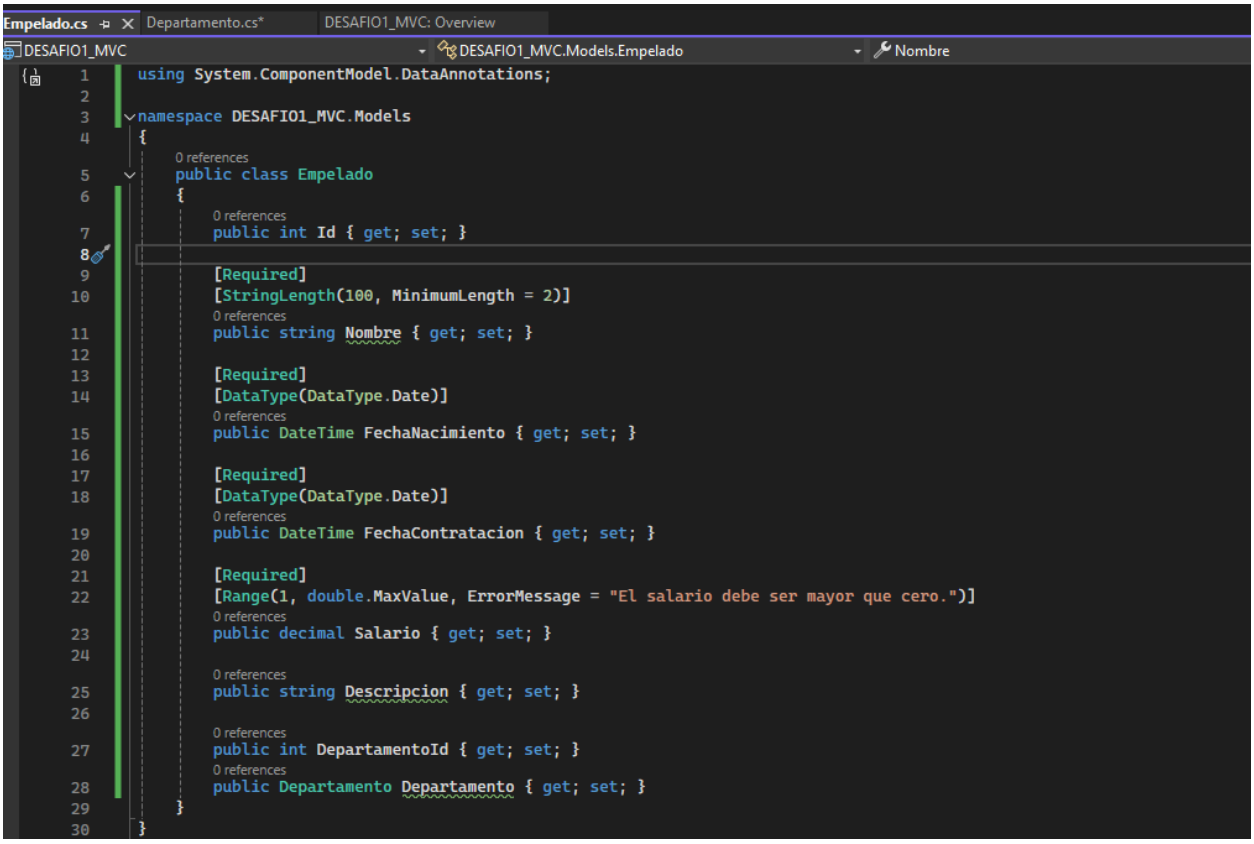




Modelos



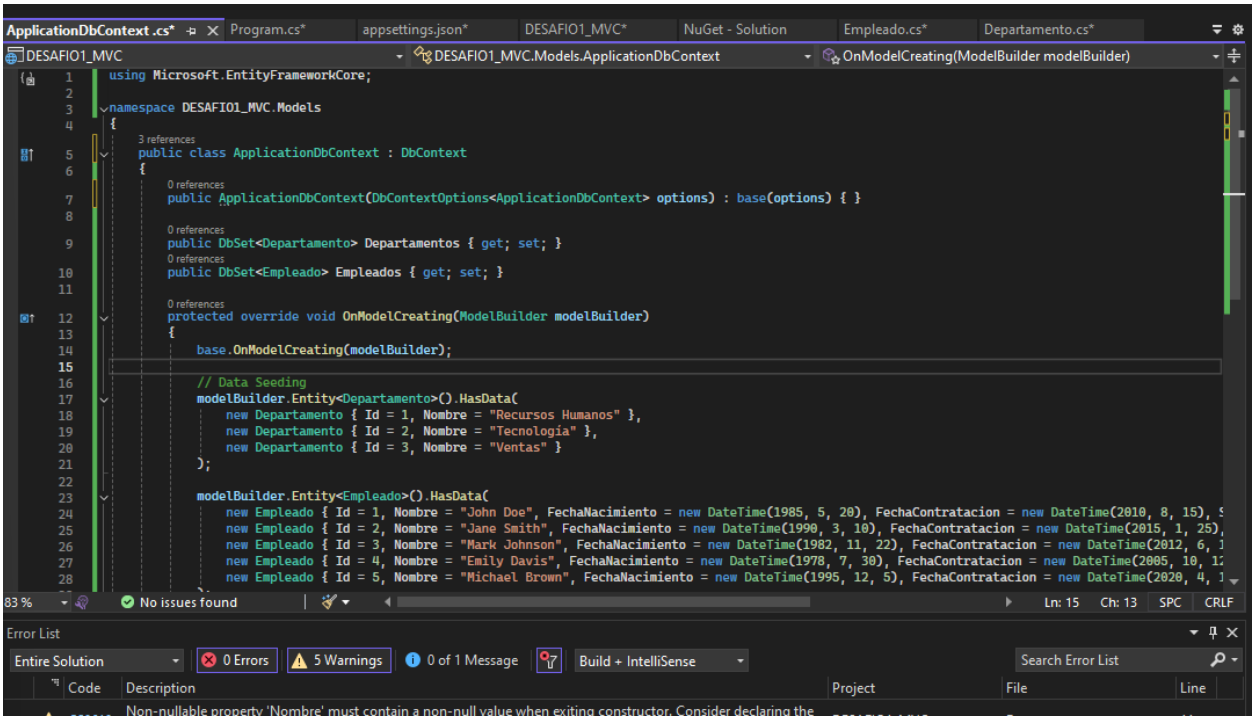

```
public class Departamento
{
    public int Id { get; set; }

    [Required]
    [StringLength(100, MinimumLength = 3)]
    public string Nombre { get; set; }

    public string Descripcion { get; set; }
}
```




```
public class Empleado
{
    public int Id { get; set; }

    [Required]
    [StringLength(100, MinimumLength = 2)]
    public string Nombre { get; set; }

    [Required]
    [DataType(DataType.Date)]
    public DateTime FechaNacimiento { get; set; }

    [Required]
    [DataType(DataType.Date)]
    public DateTime FechaContratacion { get; set; }
```

```
    [Required]
    [Range(1, double.MaxValue, ErrorMessage = "El salario debe s
    public decimal Salario { get; set; }

    public string Descripcion { get; set; }

    public int DepartamentoId { get; set; }
    public Departamento Departamento { get; set; }
}
```

DBContext

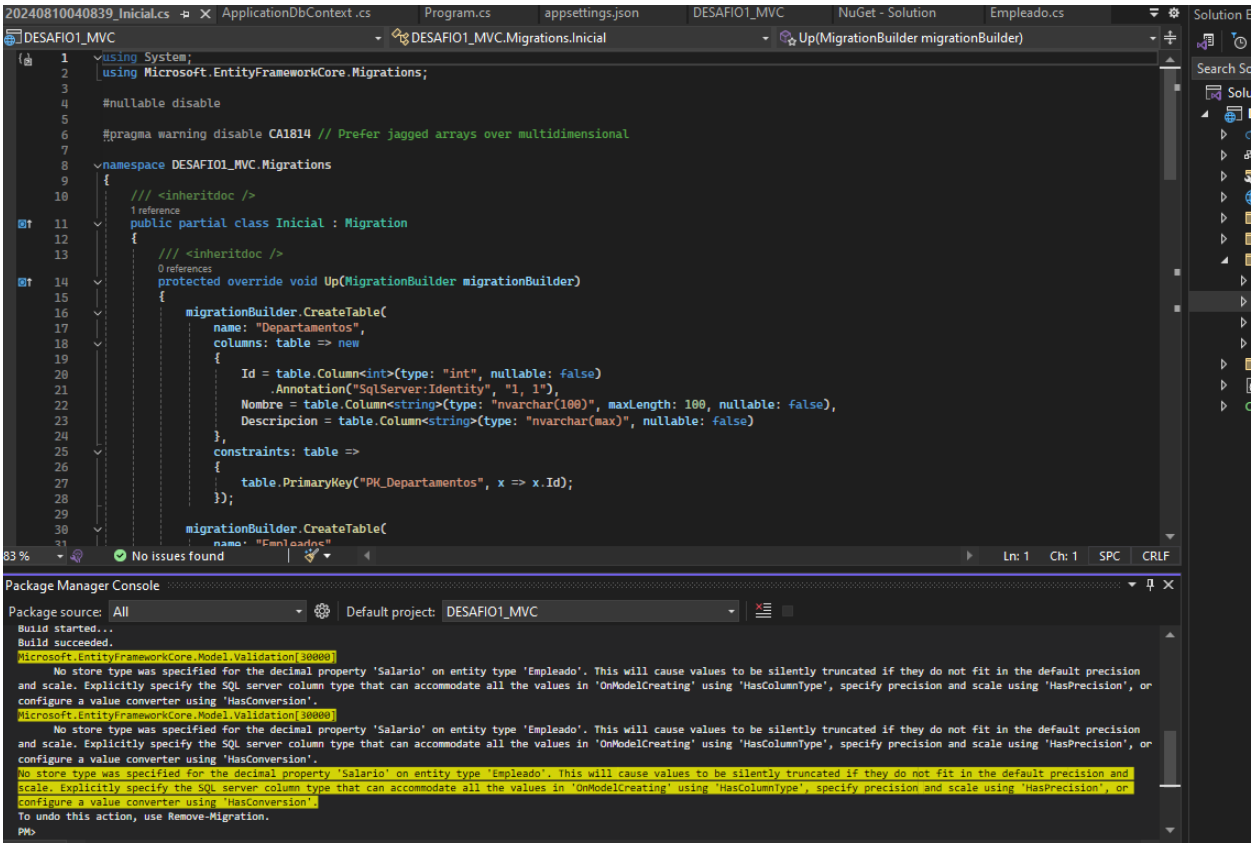


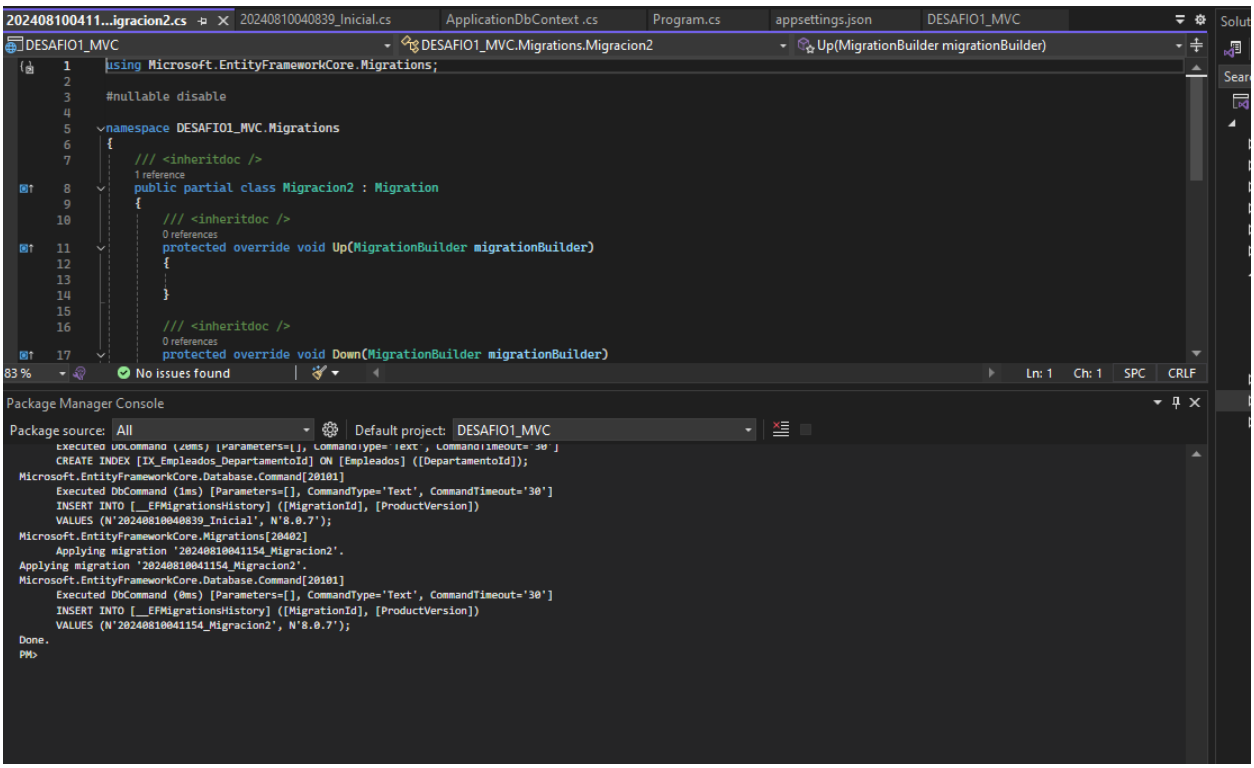

```
using Microsoft.EntityFrameworkCore;

namespace DESAFIO1_MVC.Models
{
    public class ApplicationDbContext : DbContext
    {
```

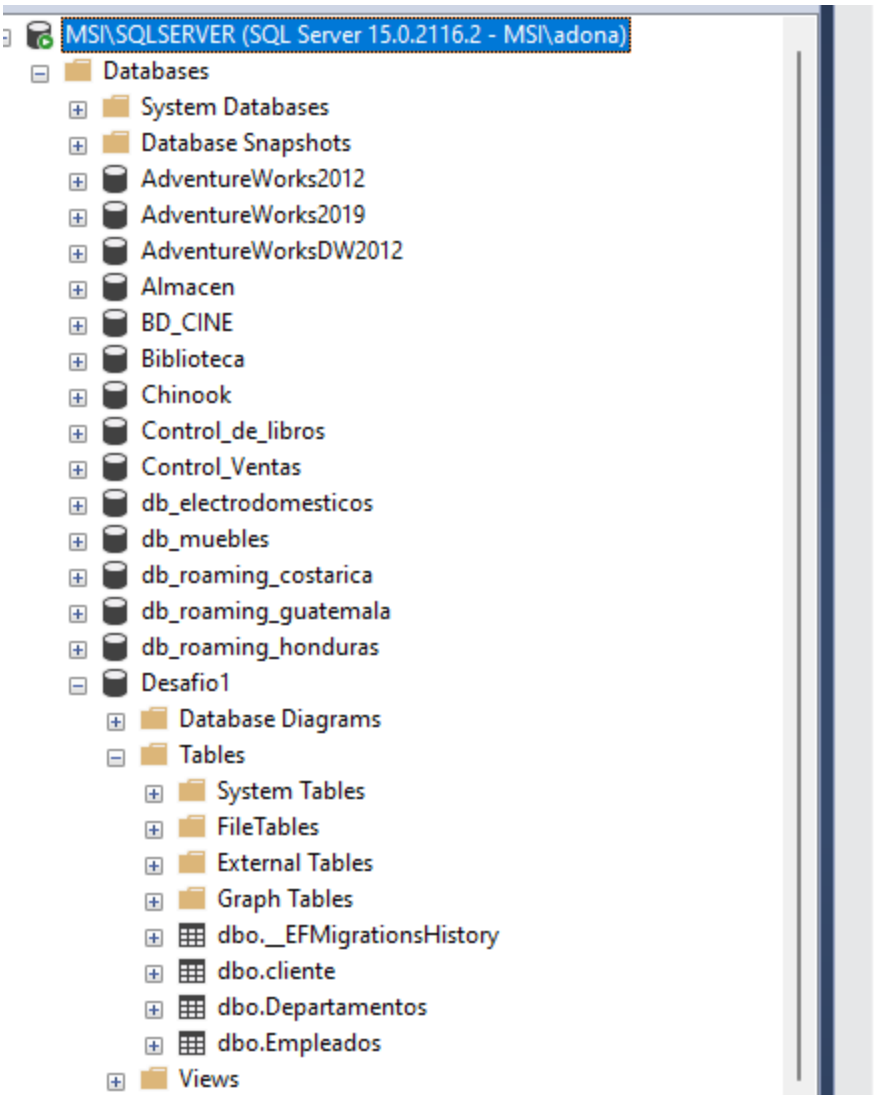
```
        public ApplicationDbContext(DbContextOptions<Applicatio
        
        public DbSet<Departamento> Departamentos { get; set; }
        public DbSet<Empleado> Empleados { get; set; }

        protected override void OnModelCreating(ModelBuilder mo
        {
            base.OnModelCreating(modelBuilder);

            // Data Seeding
            modelBuilder.Entity<Departamento>().HasData(
                new Departamento { Id = 1, Nombre = "Recursos Hu
                new Departamento { Id = 2, Nombre = "Tecnología
                new Departamento { Id = 3, Nombre = "Ventas" }
            );

            modelBuilder.Entity<Empleado>().HasData(
                new Empleado { Id = 1, Nombre = "John Doe", Fecl
                new Empleado { Id = 2, Nombre = "Jane Smith", Fe
                new Empleado { Id = 3, Nombre = "Mark Johnson",
                new Empleado { Id = 4, Nombre = "Emily Davis", I
                new Empleado { Id = 5, Nombre = "Michael Brown",
            );
        }
    }
}
```

Migraciones

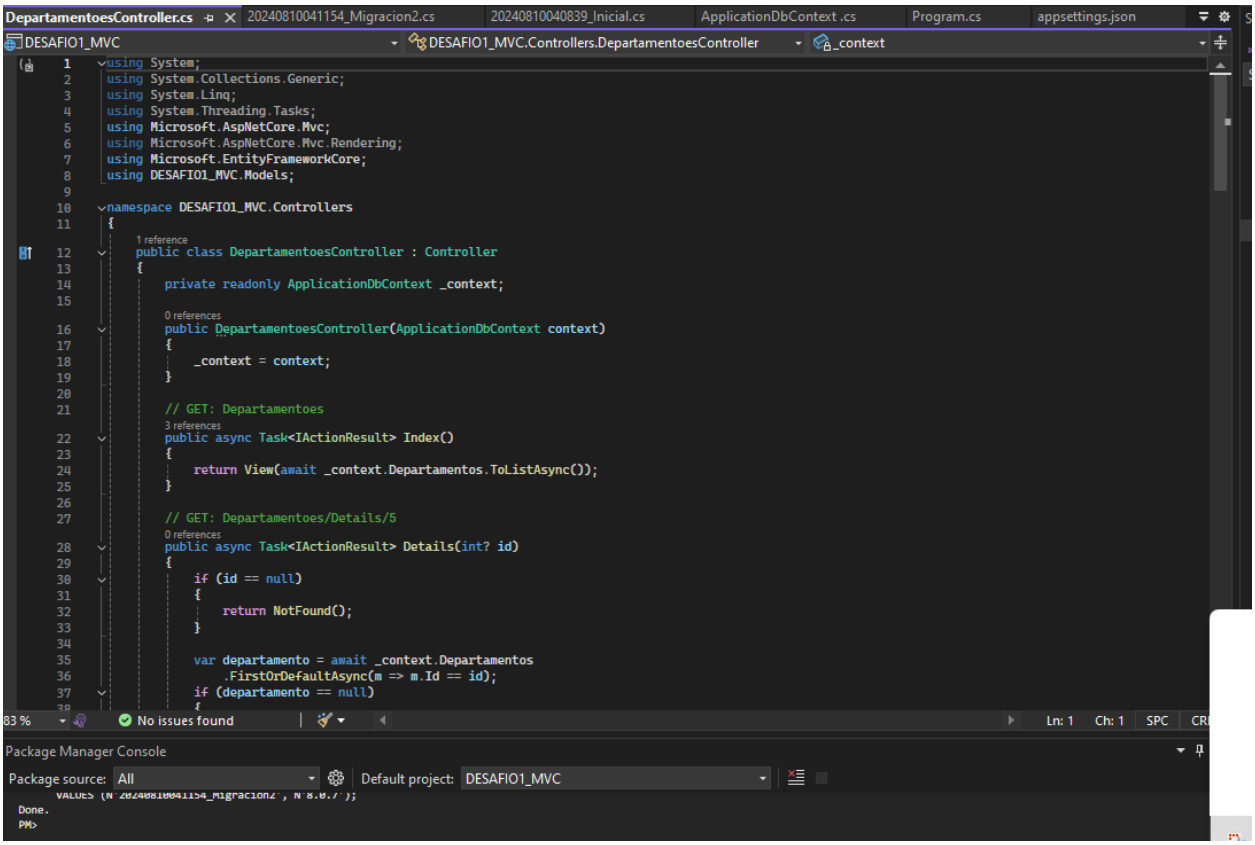
```
Add-Migration InitialCreate
Update-Database
```

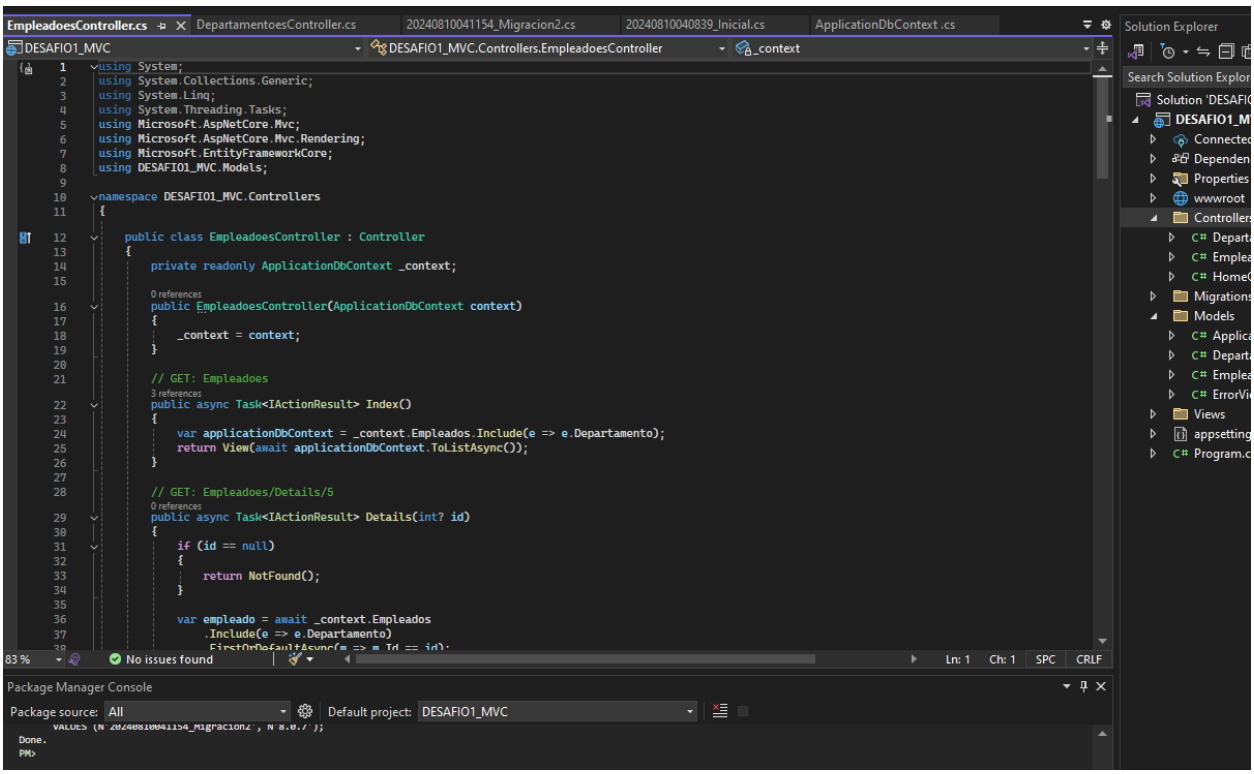

20240810040839_Inicial.cs
ApplicationDbContext.cs
Program.cs
appsettings.json
DESAFIO1_MVC
NuGet - Solution
Empleado.cs
DESAFIO1_MVC
DESAFIO1_MVC.Migrations.Inicial
Up(MigrationBuilder migrationBuilder)
using System;
using Microsoft.EntityFrameworkCore.Migrations;
#nullable disable
#pragma warning disable CA1814 // Prefer jagged arrays over multidimensional
namespace DESAFIO1_MVC.Migrations
{
/// <inheritdoc />
1 reference
public partial class Inicial : Migration
{
/// <inheritdoc />
0 references
protected override void Up(MigrationBuilder migrationBuilder)
{
migrationBuilder.CreateTable(
name: "Departamentos",
columns: table => new
{
Id = table.Column<int>(type: "int", nullable: false)
.Annotation("SqlServer:Identity", "1, 1"),
Nombre = table.Column<string>(type: "nvarchar(100)", maxLength: 100, nullable: false),
Descripcion = table.Column<string>(type: "nvarchar(max)", nullable: false)
},
constraints: table =>
{
table.PrimaryKey("PK_Departamentos", x => x.Id);
});
migrationBuilder.CreateTable(
83 %
No issues found
Ln: 1
Ch: 1
SPC
CRLF
Package Manager Console
Package source: All
Default project: DESAFIO1_MVC
Build started...
Build succeeded.
Microsoft.EntityFrameworkCore.Model.Validation[30000]
No store type was specified for the decimal property 'Salario' on entity type 'Empleado'. This will cause values to be silently truncated if they do not fit in the default precision and scale. Explicitly specify the SQL server column type that can accommodate all the values in 'OnModelCreating' using 'HasColumnType', specify precision and scale using 'HasPrecision', or configure a value converter using 'HasConversion'.
Microsoft.EntityFrameworkCore.Model.Validation[30000]
No store type was specified for the decimal property 'Salario' on entity type 'Empleado'. This will cause values to be silently truncated if they do not fit in the default precision and scale. Explicitly specify the SQL server column type that can accommodate all the values in 'OnModelCreating' using 'HasColumnType', specify precision and scale using 'HasPrecision', or configure a value converter using 'HasConversion'.
No store type was specified for the decimal property 'Salario' on entity type 'Empleado'. This will cause values to be silently truncated if they do not fit in the default precision and scale. Explicitly specify the SQL server column type that can accommodate all the values in 'OnModelCreating' using 'HasColumnType', specify precision and scale using 'HasPrecision', or configure a value converter using 'HasConversion'.
To undo this action, use Remove-Migration.
PM>


202408100411...igracion2.cs
20240810040839_Inicial.cs
ApplicationDbContext.cs
Program.cs
appsettings.json
DESAFIO1_MVC
DESAFIO1_MVC
DESAFIO1_MVC.Migrations.Migracion2
Up(MigrationBuilder migrationBuilder)
using Microsoft.EntityFrameworkCore.Migrations;
#nullable disable
namespace DESAFIO1_MVC.Migrations
{
/// <inheritdoc />
1 reference
public partial class Migracion2 : Migration
{
/// <inheritdoc />
0 references
protected override void Up(MigrationBuilder migrationBuilder)
{
}
/// <inheritdoc />
0 references
protected override void Down(MigrationBuilder migrationBuilder)
83 %
No issues found
Ln: 1
Ch: 1
SPC
CRLF
Package Manager Console
Package source: All
Default project: DESAFIO1_MVC
CREATE INDEX [IX_Empleados_DepartamentoId] ON [Empleados] ([DepartamentoId]);
Microsoft.EntityFrameworkCore.Database.Command[20101]
Executed DbCommand (1ms) [Parameters=[], CommandType='Text', CommandTimeout='30']
INSERT INTO [__EFMigrationsHistory] ([MigrationId], [ProductVersion])
VALUES (N'20240810040839_Inicial', N'8.0.7');
Microsoft.EntityFrameworkCore.Migrations[20402]
Applying migration '20240810041154_Migracion2'.
Applying migration '20240810041154_Migracion2'.
Microsoft.EntityFrameworkCore.Database.Command[20101]
Executed DbCommand (0ms) [Parameters=[], CommandType='Text', CommandTimeout='30']
INSERT INTO [__EFMigrationsHistory] ([MigrationId], [ProductVersion])
VALUES (N'20240810041154_Migracion2', N'8.0.7');
Done.
PM>

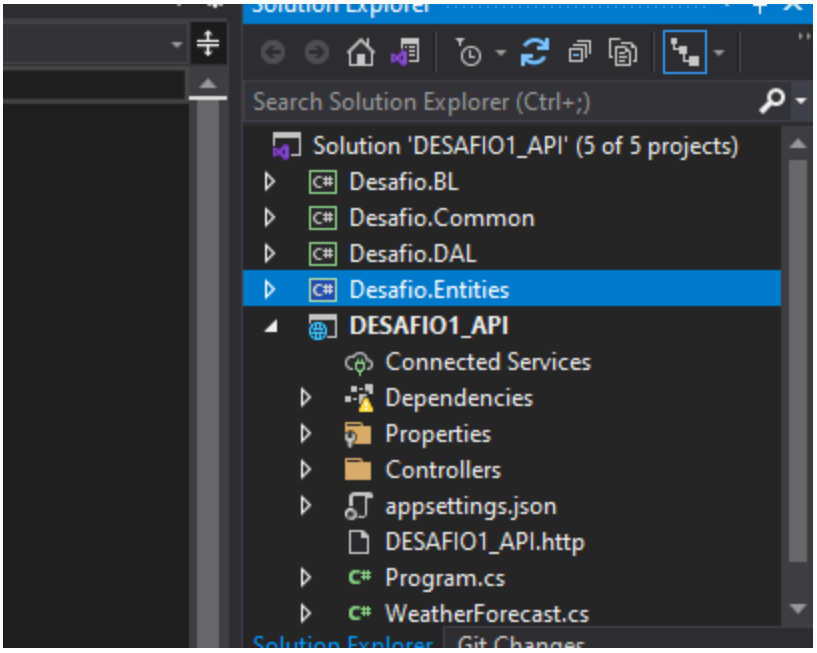


Controladores


DepartamentoesController.cs
20240810041154_Migracion2.cs
20240810040839_Inicial.cs
ApplicationDbContext .cs
Program.cs
appsettings.json
DESAFIO1_MVC
DESAFIO1_MVC.Controllers.DepartamentoesController
_context
using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;
using Microsoft.AspNetCore.Mvc;
using Microsoft.AspNetCore.Mvc.Rendering;
using Microsoft.EntityFrameworkCore;
using DESAFIO1_MVC.Models;
namespace DESAFIO1_MVC.Controllers
{
1 reference
public class DepartamentoesController : Controller
{
private readonly ApplicationDbContext _context;
0 references
public DepartamentoesController(ApplicationDbContext context)
{
_context = context;
}
// GET: Departamentoes
3 references
public async Task<IActionResult> Index()
{
return View(await _context.Departamentos.ToListAsync());
}
// GET: Departamentoes/Details/5
0 references
public async Task<IActionResult> Details(int? id)
{
if (id == null)
{
return NotFound();
}
var departamento = await _context.Departamentos
.FirstOrDefaultAsync(m => m.Id == id);
if (departamento == null)
83 %
No issues found
Ln: 1
Ch: 1
SPC
Package Manager Console
Package source:
All
Default project:
DESAFIO1_MVC
Done.
PM>


EmpleadoesController.cs
DepartamentoesController.cs
20240810041154_Migracion2.cs
20240810040839_Inicial.cs
ApplicationDbContext .cs
Solution Explorer
DESAFIO1_MVC
DESAFIO1_MVC.Controllers.EmpleadoesController
_context
using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;
using Microsoft.AspNetCore.Mvc;
using Microsoft.AspNetCore.Mvc.Rendering;
using Microsoft.EntityFrameworkCore;
using DESAFIO1_MVC.Models;
namespace DESAFIO1_MVC.Controllers
{
public class EmpleadoesController : Controller
{
private readonly ApplicationDbContext _context;
0 references
public EmpleadoesController(ApplicationDbContext context)
{
_context = context;
}
// GET: Empleadoes
3 references
public async Task<IActionResult> Index()
{
var applicationDbContext = _context.Empleados.Include(e => e.Departamento);
return View(await applicationDbContext.ToListAsync());
}
// GET: Empleadoes/Details/5
0 references
public async Task<IActionResult> Details(int? id)
{
if (id == null)
{
return NotFound();
}
var empleado = await _context.Empleados
.Include(e => e.Departamento)
83 %
No issues found
Ln: 1
Ch: 1
SPC
CRLF
Package Manager Console
Package source:
All
Default project:
DESAFIO1_MVC
Done.
PM>

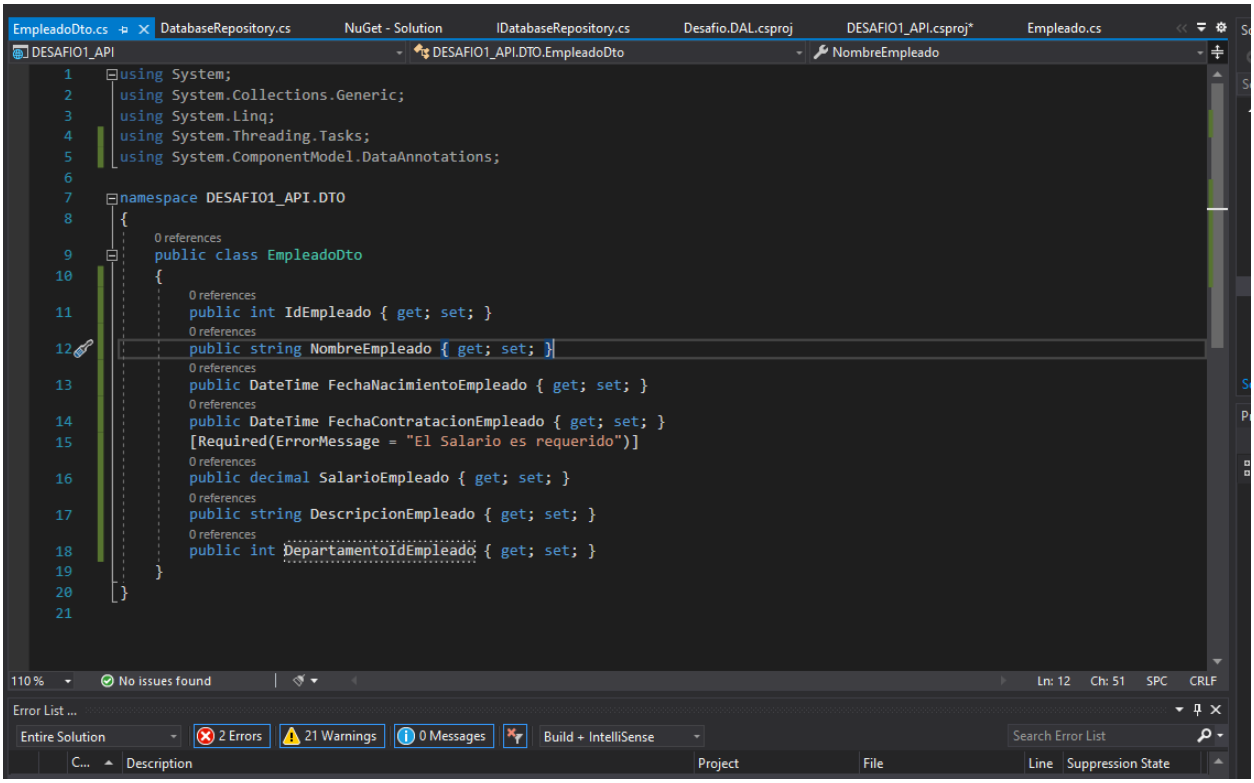
API

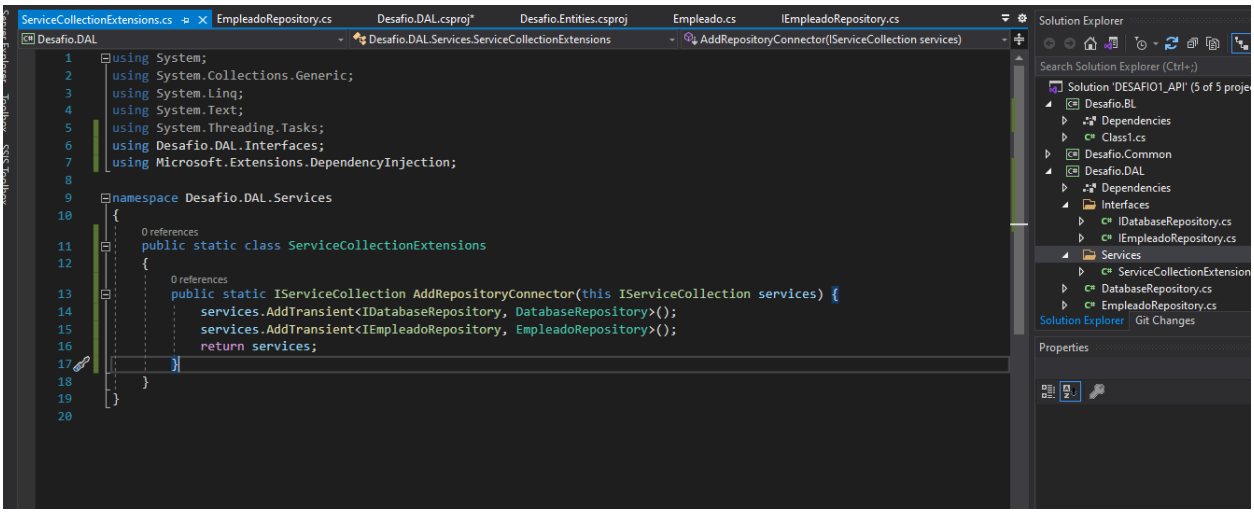


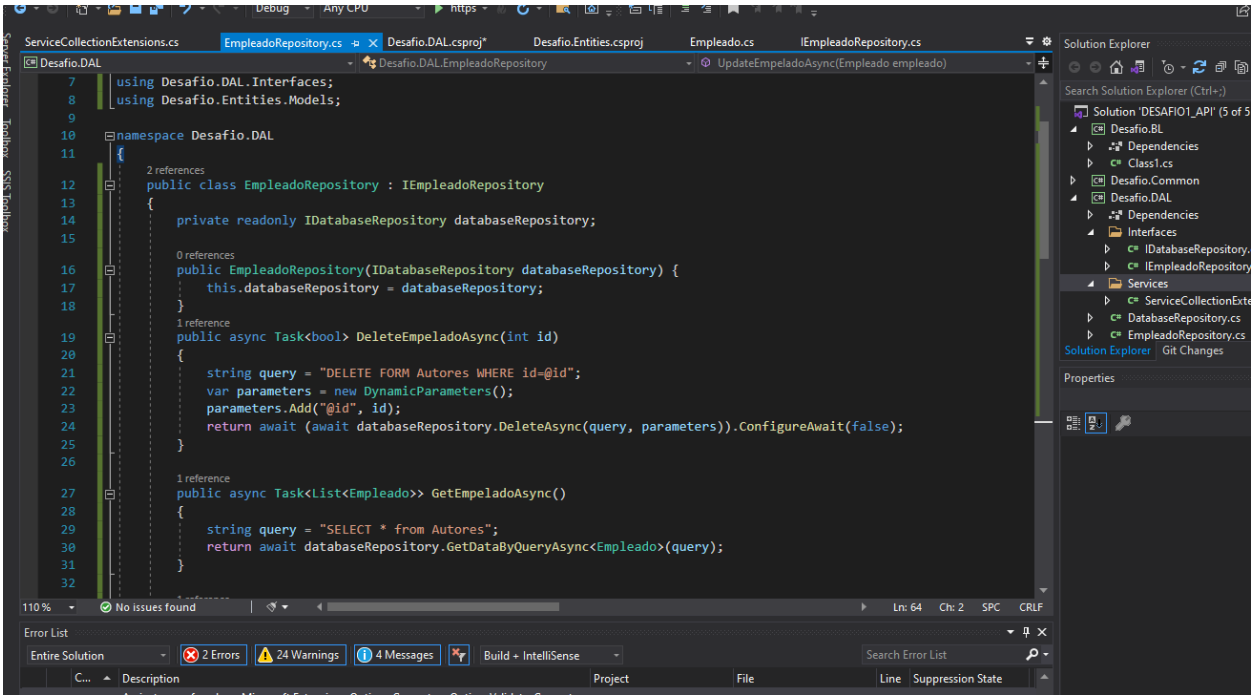

```
Program.cs*  AppSettings.cs*  appsettings.json  Class1.cs  Class1.cs  Class1.cs  Class1.cs  DESAFIO1_API.csproj
DESAFIO1_API
 1    var builder = WebApplication.CreateBuilder(args);
 2
 3    // Add services to the container.
 4
 5    builder.Services.AddControllers();
 6    // Learn more about configuring Swagger/OpenAPI at https://aka.ms/aspnetcore/swashbuckle
 7    builder.Services.AddEndpointsApiExplorer();
 8    builder.Services.AddSwaggerGen();
 9    builder.Services.Configure<AppSetting>(builder.Configuration.GetSectiopn("AppSettings"));
10    builder.Services.AddServicesConnector();
11
12    var app = builder.Build();
13
14    // Configure the HTTP request pipeline.
15    if (app.Environment.IsDevelopment())
16    {
17        app.UseSwagger();
18        app.UseSwaggerUI();
19    }
20
21    app.UseHttpsRedirection();
22
23    app.UseAuthorization();
24
25    app.MapControllers();
26
```

```
Empleado.cs | DESAFIO1_API.csproj* | Program.cs* | AppSettings.cs* | appsettings.json | Class1.cs | Class1.cs | Class1.cs | Class1.cs
DESAFIO1_API | DESAFIO1_API.Models.Empleado | Id

1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Threading.Tasks;
5
6  namespace DESAFIO1_API.Models
7  {
       0 references
8      public class Empleado
9      {
10         [Key]
           0 references
11         public int Id { get; set; }
           0 references
12         public string Nombre { get; set; }
           0 references
13         public DateTime FechaNacimiento { get; set; }
           0 references
14         public DateTime FechaContratacion { get; set; }
15         [Required(ErrorMessage="El Salario es requerido")]
           0 references
16         public decimal Salario { get; set; }
           0 references
17         public string Descripcion { get; set; }
           0 references
18         public int DepartamentoId { get; set; }
19     }
20 }
21
```

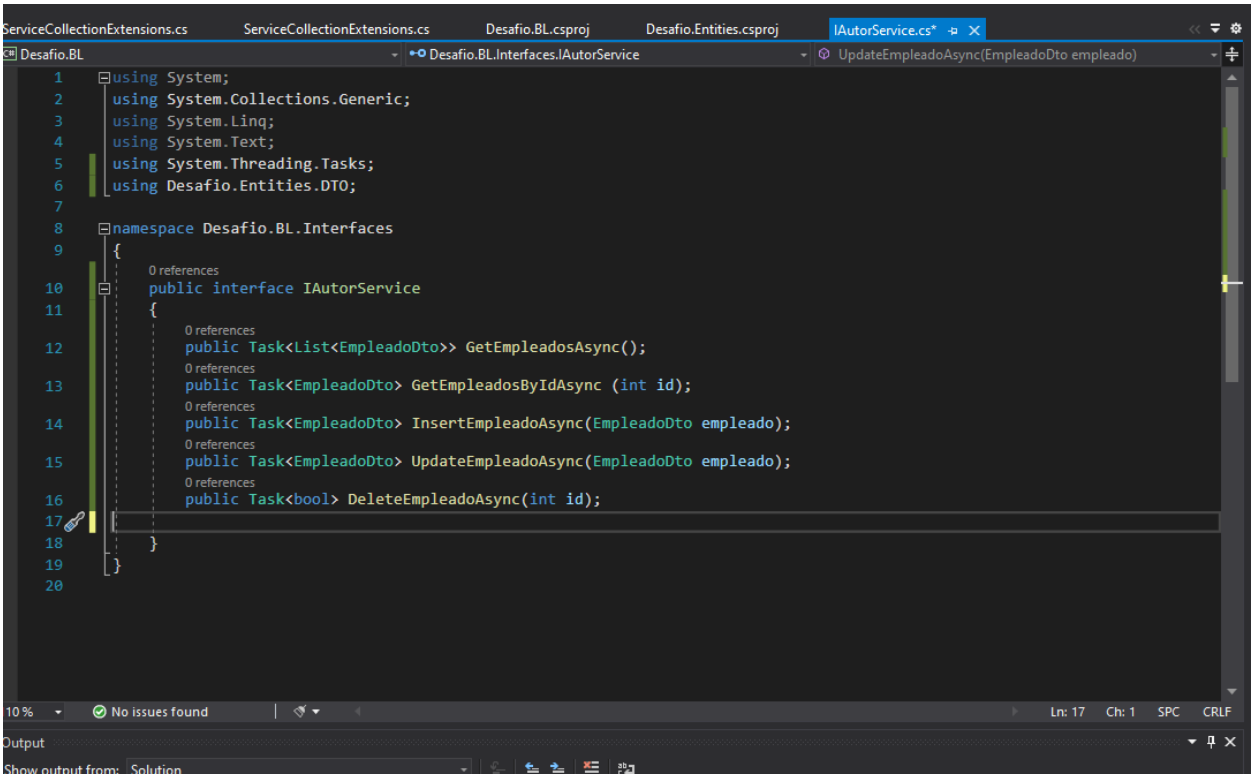
```
NuGet - Solution | IDatabaseRepository.cs | Desafio.DAL.csproj | Empleado.cs | DESAFIO1_API.csproj | Program.cs | AppSettings.cs
Desafio.DAL | Desafio.DAL.Interfaces.IDatabaseRepository | GetDataByQueryAsync<T>(string query, DynamicParameters?

1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Text;
5  using System.Threading.Tasks;
6  using Dapper;
7
8  namespace Desafio.DAL.Interfaces
9  {
       0 references
10     public interface IDatabaseRepository
11     {
           0 references
12         public  Task<List<T>> GetDataByQueryAsync<T>(string query, DynamicParameters? parameters = null);
           0 references
13         public Task<List<int>> InsertAsync<T>(string storeProcedure, DynamicParameters? parameters = null);
           0 references
14         public Task<T> Update<T>(string storeProcedure, DynamicParameters? parameters = null);
           0 references
15         public Task<bool> Delete(string storeProcedure, DynamicParameters? parameters = null);
16
17
18
19     }
20 }
21

Solution Explorer
Search Solution Explore
Solution 'DESAFIO
Desafio.BL
Desafio.Comm
Desafio.DAL
Dependenc
Interfaces
IDataba
Class1.cs
Desafio.Entitie
DESAFIO1_AP
Connected
Dependenc
Properties
Controllers
Solution Explorer | Git
Properties
```


EmpleadoDto.cs
DatabaseRepository.cs
NuGet - Solution
IDatabaseRepository.cs
Desafio.DAL.csproj
DESAFIO1_API.csproj*
Empleado.cs
DESAFIO1_API
DESAFIO1_API.DTO.EmpleadoDto
NombreEmpleado
using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;
using System.ComponentModel.DataAnnotations;
namespace DESAFIO1_API.DTO
{
0 references
public class EmpleadoDto
{
0 references
public int IdEmpleado { get; set; }
0 references
public string NombreEmpleado { get; set; }
0 references
public DateTime FechaNacimientoEmpleado { get; set; }
0 references
public DateTime FechaContratacionEmpleado { get; set; }
[Required(ErrorMessage = "El Salario es requerido")]
0 references
public decimal SalarioEmpleado { get; set; }
0 references
public string DescripcionEmpleado { get; set; }
0 references
public int DepartamentoIdEmpleado { get; set; }
}
}
110 %
No issues found
Ln: 12
Ch: 51
SPC
CRLF
Error List ...
Entire Solution
2 Errors
21 Warnings
0 Messages
Build + IntelliSense
Search Error List
Description
Project
File
Line
Suppression State

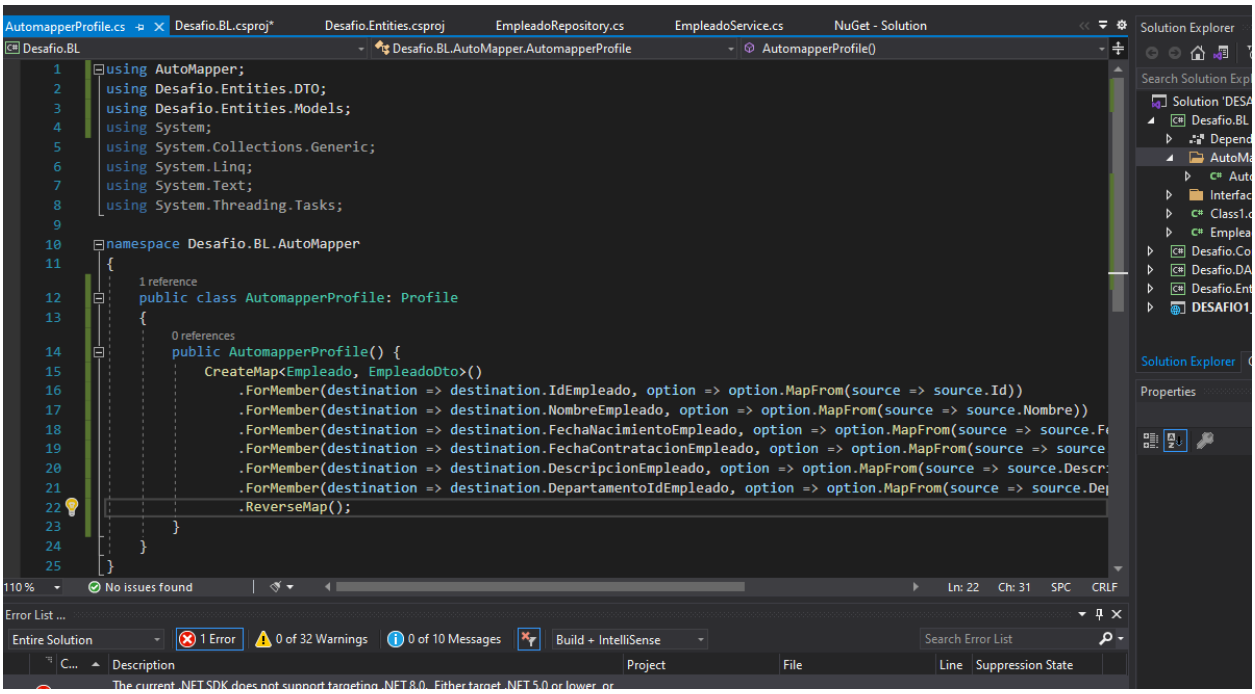

ServiceCollectionExtensions.cs
EmpleadoRepository.cs
Desafio.DAL.csproj*
Desafio.Entities.csproj
Empleado.cs
IEmpleadoRepository.cs
Desafio.DAL
Desafio.DAL.Services.ServiceCollectionExtensions
AddRepositoryConnector(IServiceCollection services)
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using Desafio.DAL.Interfaces;
using Microsoft.Extensions.DependencyInjection;
namespace Desafio.DAL.Services
{
0 references
public static class ServiceCollectionExtensions
{
0 references
public static IServiceCollection AddRepositoryConnector(this IServiceCollection services) {
services.AddTransient<IDatabaseRepository, DatabaseRepository>();
services.AddTransient<IEmpleadoRepository, EmpleadoRepository>();
return services;
}
}
}
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'DESAFIO1_API' (5 of 5 proje
Desafio.BL
Dependencies
Class1.cs
Desafio.Common
Desafio.DAL
Dependencies
Interfaces
IDatabaseRepository.cs
IEmpleadoRepository.cs
Services
ServiceCollectionExtension
DatabaseRepository.cs
EmpleadoRepository.cs
Solution Explorer
Git Changes
Properties

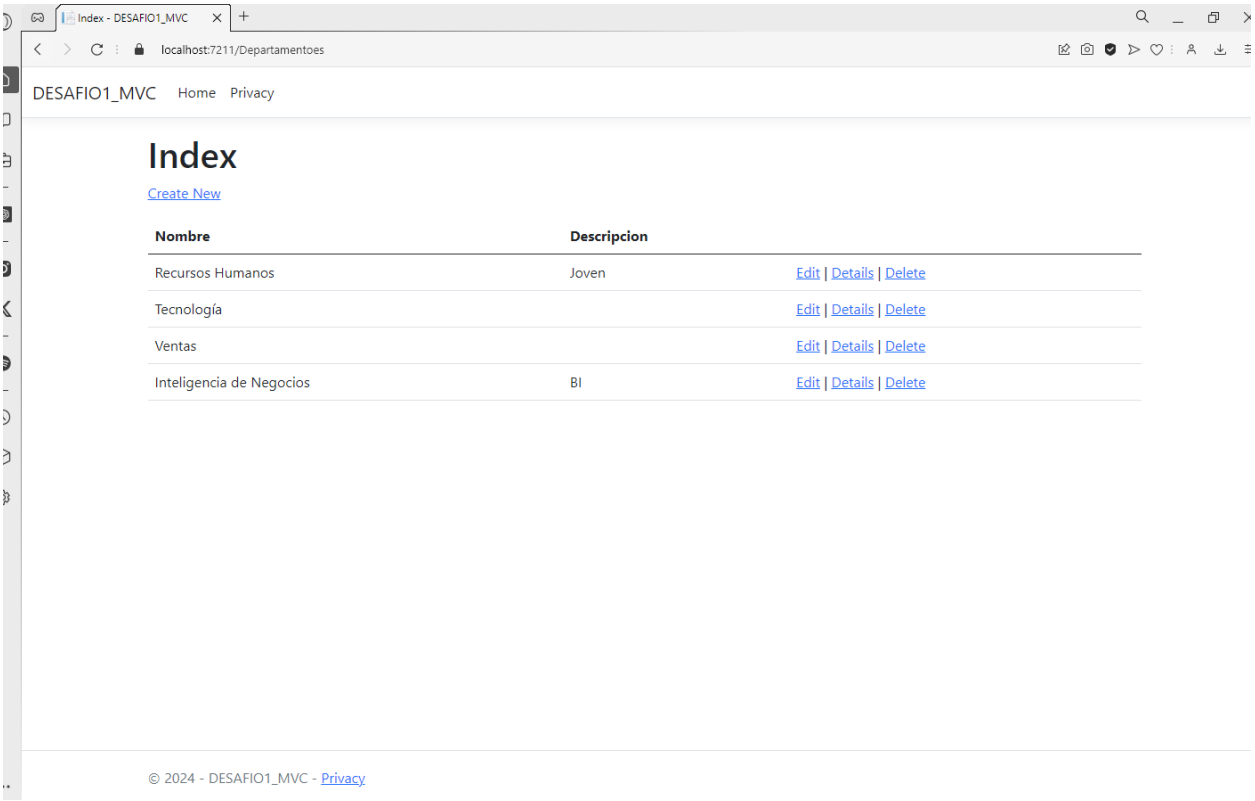


```
using Desafio.DAL.Interfaces;
using Desafio.Entities.Models;

namespace Desafio.DAL
{
    2 references
    public class EmpleadoRepository : IEmpleadoRepository
    {
        private readonly IDatabaseRepository databaseRepository;

        0 references
        public EmpleadoRepository(IDatabaseRepository databaseRepository) {
            this.databaseRepository = databaseRepository;
        }
        1 reference
        public async Task<bool> DeleteEmpeladoAsync(int id)
        {
            string query = "DELETE FORM Autores WHERE id=@id";
            var parameters = new DynamicParameters();
            parameters.Add("@id", id);
            return await (await databaseRepository.DeleteAsync(query, parameters)).ConfigureAwait(false);
        }

        1 reference
        public async Task<List<Empleado>> GetEmpeladoAsync()
        {
            string query = "SELECT * from Autores";
            return await databaseRepository.GetDataByQueryAsync<Empleado>(query);
        }
```



```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using Desafio.Entities.DTO;

namespace Desafio.BL.Interfaces
{
    0 references
    public interface IAutorService
    {
        0 references
        public Task<List<EmpleadoDto>> GetEmpleadosAsync();
        0 references
        public Task<EmpleadoDto> GetEmpleadosByIdAsync (int id);
        0 references
        public Task<EmpleadoDto> InsertEmpleadoAsync(EmpleadoDto empleado);
        0 references
        public Task<EmpleadoDto> UpdateEmpleadoAsync(EmpleadoDto empleado);
        0 references
        public Task<bool> DeleteEmpleadoAsync(int id);

    }
}
```


AutomapperProfile.cs
Desafio.BL.csproj*
Desafio.Entities.csproj
EmpleadoRepository.cs
EmpleadoService.cs
NuGet - Solution
Desafio.BL
Desafio.BL.AutoMapper.AutomapperProfile
AutomapperProfile()
using AutoMapper;
using Desafio.Entities.DTO;
using Desafio.Entities.Models;
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Desafio.BL.AutoMapper
{
1 reference
public class AutomapperProfile: Profile
{
0 references
public AutomapperProfile() {
CreateMap<Empleado, EmpleadoDto>()
.ForMember(destination => destination.IdEmpleado, option => option.MapFrom(source => source.Id))
.ForMember(destination => destination.NombreEmpleado, option => option.MapFrom(source => source.Nombre))
.ForMember(destination => destination.FechaNacimientoEmpleado, option => option.MapFrom(source => source.F
.ForMember(destination => destination.FechaContratacionEmpleado, option => option.MapFrom(source => source
.ForMember(destination => destination.DescripcionEmpleado, option => option.MapFrom(source => source.Descr
.ForMember(destination => destination.DepartamentoIdEmpleado, option => option.MapFrom(source => source.De
.ReverseMap();
}
}
}
110 %
No issues found
Ln: 22
Ch: 31
SPC
CRLF
Error List ...
Entire Solution
1 Error
0 of 32 Warnings
0 of 10 Messages
Build + IntelliSense
Search Error List
Description
Project
File
Line
Suppression State
Solution Explorer
Properties


Index - DESAFIO1_MVC
localhost:7211/Departamentoes
DESAFIO1_MVC
Home
Privacy
Index
Create New
Nombre
Descripcion
Recursos Humanos
Joven
Edit | Details | Delete
Tecnología
Edit | Details | Delete
Ventas
Edit | Details | Delete
Inteligencia de Negocios
BI
Edit | Details | Delete
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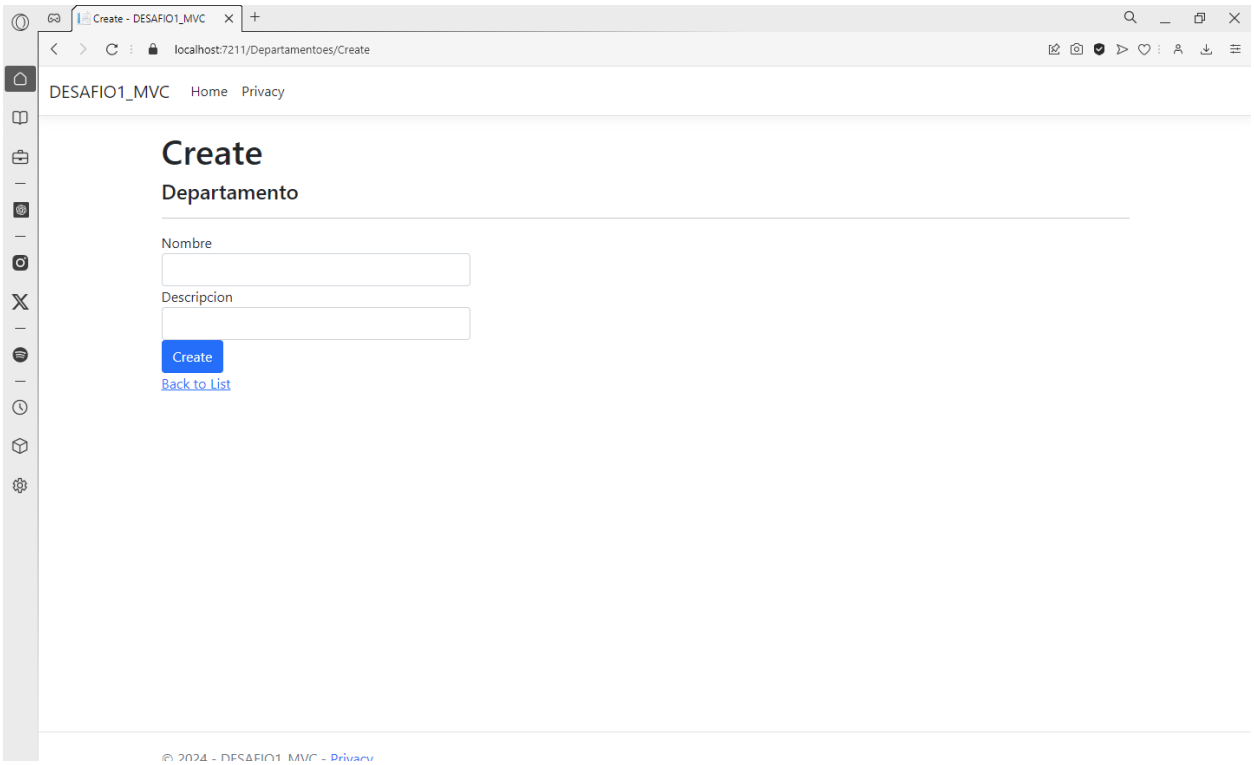
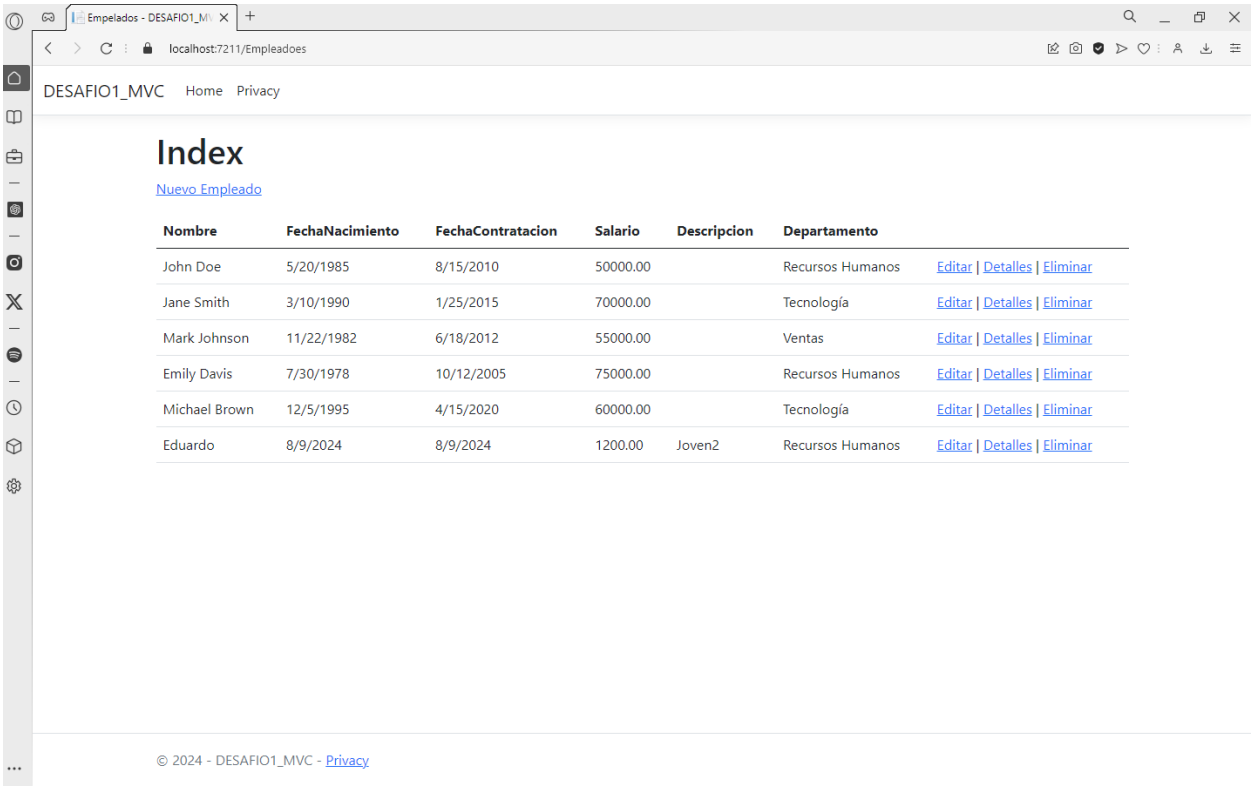

Create - DESAFIO1_MVC
localhost:7211/Departamentoes/Create
DESAFIO1_MVC
Home
Privacy
Create
Departamento
Nombre
Descripcion
Create
Back to List


Empelados - DESAFIO1_MV
localhost:7211/Empleadoes
DESAFIO1_MVC
Home
Privacy
Index
Nuevo Empleado
Nombre
FechaNacimiento
FechaContratacion
Salario
Descripcion
Departamento
John Doe 5/20/1985 8/15/2010 50000.00 Recursos Humanos Editar | Detalles | Eliminar
Jane Smith 3/10/1990 1/25/2015 70000.00 Tecnología Editar | Detalles | Eliminar
Mark Johnson 11/22/1982 6/18/2012 55000.00 Ventas Editar | Detalles | Eliminar
Emily Davis 7/30/1978 10/12/2005 75000.00 Recursos Humanos Editar | Detalles | Eliminar
Michael Brown 12/5/1995 4/15/2020 60000.00 Tecnología Editar | Detalles | Eliminar
Eduardo 8/9/2024 8/9/2024 1200.00 Joven2 Recursos Humanos Editar | Detalles | Eliminar
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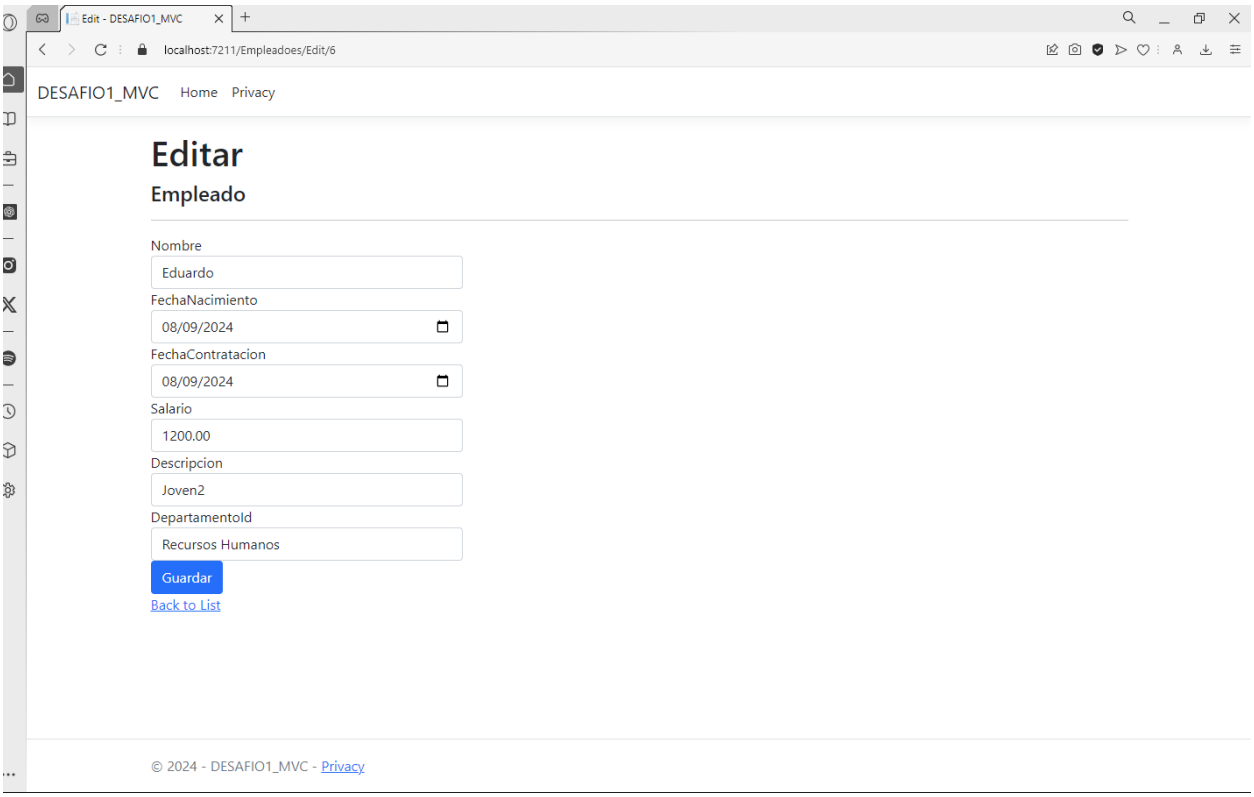
Edit - DESAFIO1_MVC
localhost:7211/Empleadoes/Edit/6
DESAFIO1_MVC
Home
Privacy
Editar
Empleado
Nombre
Eduardo
FechaNacimiento
08/09/2024
FechaContratacion
08/09/2024
Salario
1200.00
Descripcion
Joven2
DepartamentoId
Recursos Humanos
Guardar
Back to List
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