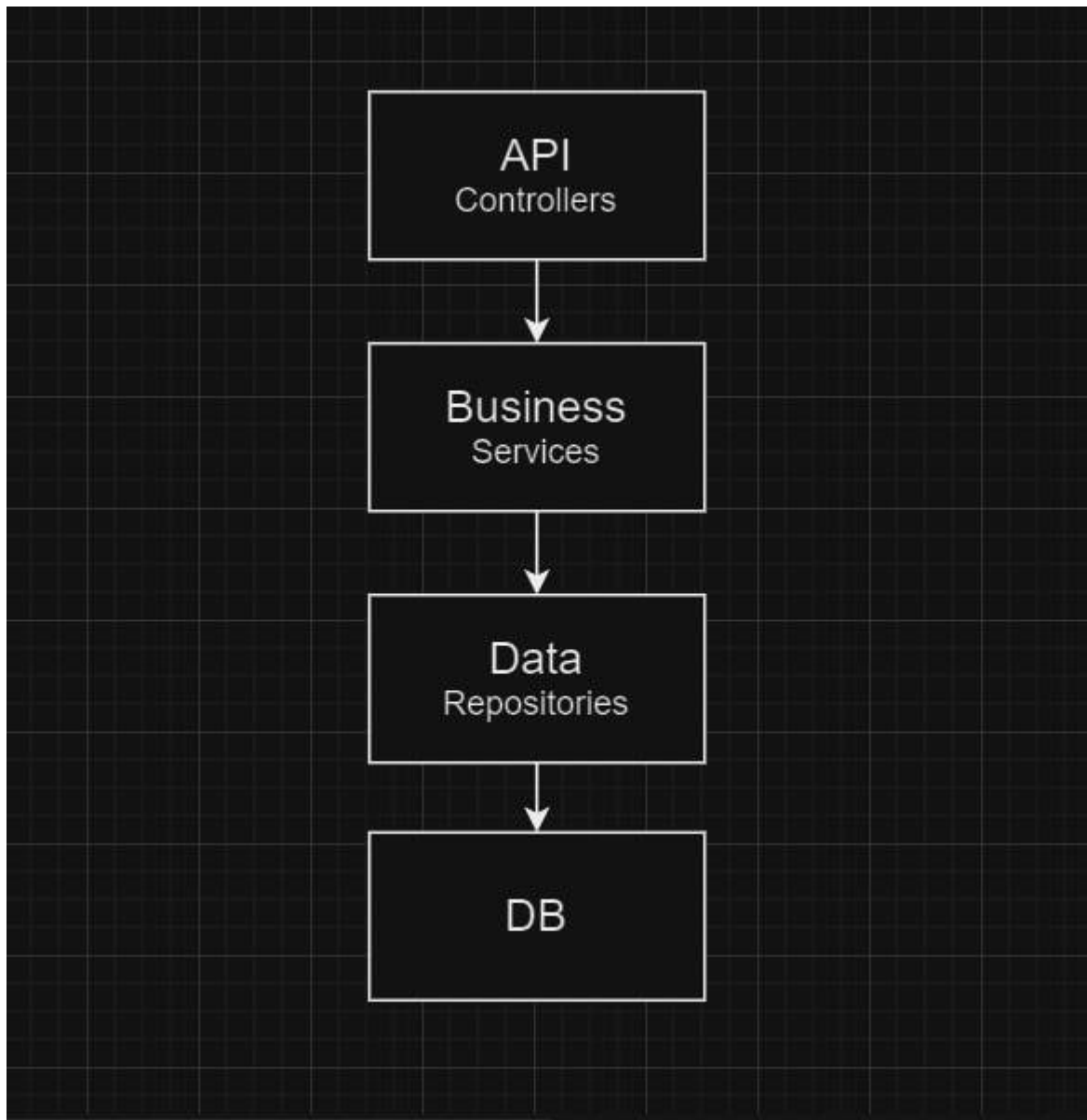


Підхід до побудови архітектури проекту:

Layered architecture



База даних:

PostgreSQL (у ролі сервера використовуємо Neon)

Entity Framework:

```
<PackageReference Include="Npgsql.EntityFrameworkCore.PostgreSQL" Version="6.0.22" />
```

Приклад entity:

```
using System.Text.Json.Serialization;

namespace EF;

public partial class User
{
    public long UserId { get; set; }

    public string Email { get; set; } = null!;

    public string FirstName { get; set; } = null!;

    public string LastName { get; set; } = null!;

    public string? Patronymic { get; set; }

    public string Phone { get; set; } = null!;

    public string Password { get; set; } = null!;

    public string? Type { get; set; }

    public long RoleRef { get; set; }

    [JsonIgnore]
    public virtual ICollection<Appointment> AppointmentDoctorRefNavigations { get; set; } = new List<Appointment>();

    [JsonIgnore]
    public virtual ICollection<Appointment> AppointmentPatientRefNavigations { get; set; } = new List<Appointment>();

    public virtual Role RoleRefNavigation { get; set; } = null!;
}
```

Stylecop:

Налаштування Stylecop відповідно до документації:

The screenshot shows a web browser window displaying the GitHub documentation for enabling StyleCop. The browser's address bar shows the URL: `github.com/DotNetAnalyzers/StyleCopAnalyzers/blob/master/documentation/EnableConfiguration.md`. The page title is "Enabling stylecop.json". The content explains that the code fix is not fully configured and provides steps for enabling StyleCop in different versions of Visual Studio.

Enabling stylecop.json

At this time, the code fix is not able to fully configure the newly-created `stylecop.json` file for use. This is tracked in bug report [dotnet/roslyn#4655](#). In the mean time, users must manually perform the following additional steps after creating the `stylecop.json` file.

In Visual Studio 2017, 2019, and 2022:

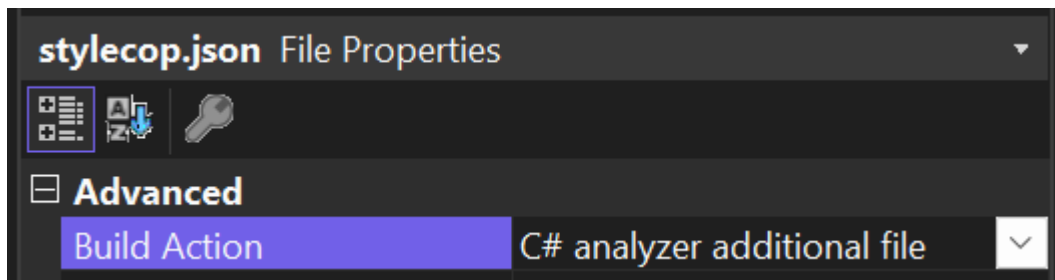
1. Select the file in Solution Explorer.
2. In the Properties window, set the value for Build Action to:
 - For most projects: `AdditionalFiles`
 - For projects using the new project system, including .NET Core and .NET Standard projects: `C# analyzer additional file`.

In Visual Studio 2015 Update 3 and newer:

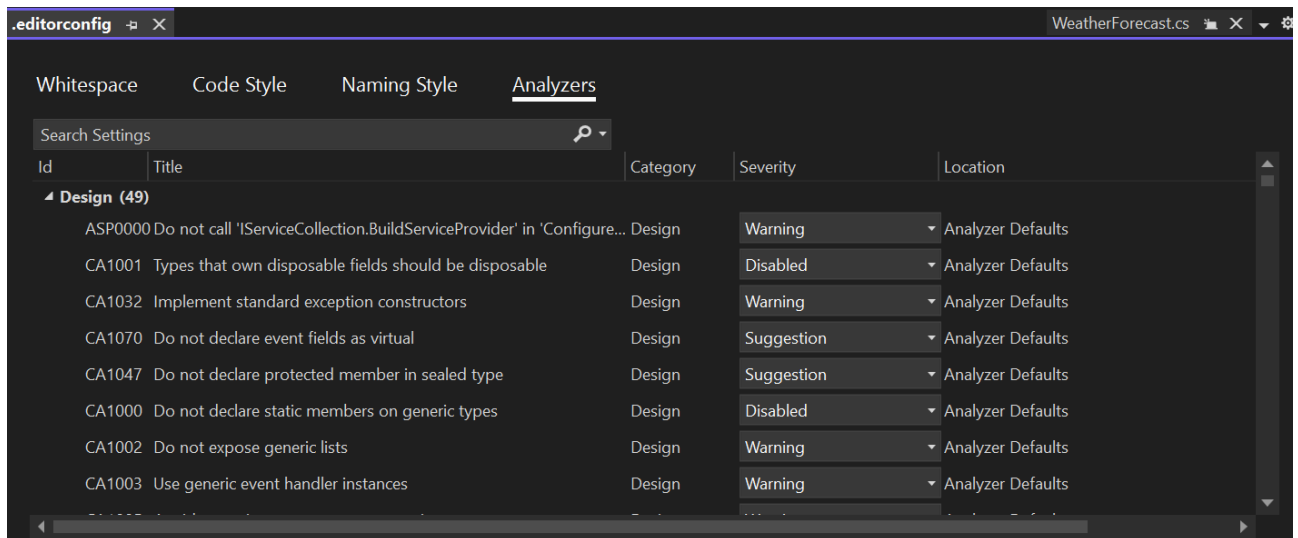
1. Select the file in Solution Explorer.
2. In the Properties window set the value for Build Action to `AdditionalFiles`.

In older versions of Visual Studio 2015:

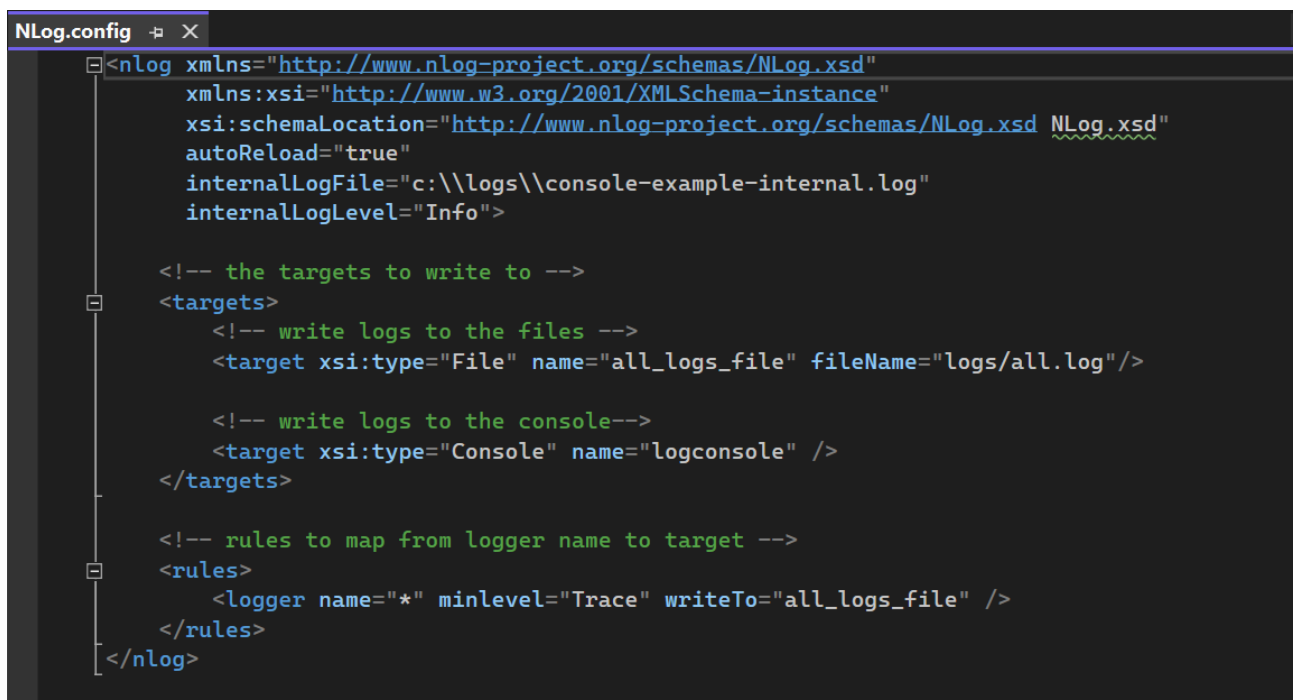
1. Right click the project in Solution Explorer and select `Unload Project`. If you are asked to save changes, click Yes.
2. Right click the unloaded project in Solution Explorer and select `Edit ProjectName.csproj`.
3. Locate the following item in the project file.



Для налаштування Stylecop правил використали файл .editorconfig:



NLog:



```
namespace WebApplication2
{
    public class Program
    {
        public static void Main(string[] args)
        {
            Logger logger = LogManager.GetCurrentClassLogger();
            // Add services to the container.
            logger.Info("Logger is working!");
            logger.Warn("Logger WARN message!");
            logger.Error("logger EROR message!");
            var builder = WebApplication.CreateBuilder(args);

            builder.Services.AddControllers();
            // Learn more about configuring Swagger/OpenAPI at https://aka.ms/aspnetcore/swashbuckle
            builder.Services.AddEndpointsApiExplorer();
            builder.Services.AddSwaggerGen();

            builder.Services.AddDbContext<NeondbContext>(options =>
            {
                options.UseNpgsql(builder.Configuration.GetConnectionString("DbConectionString"));
            });

            builder.Services.AddScoped<IRoleService, RoleServiceImpl>();
            builder.Services.AddScoped<IAppointmentService, AppointmentServiceImpl>();
            builder.Services.AddScoped<IUserService, UserServiceImpl>();

            var app = builder.Build();
        }
    }
}
```