# Asp.net 9 updates:

Add scalar instead of Swagger:

1. Install nuget package Scalar.AspNetCore
2. Add scalar to program.cs:

using Scalar.AspNetCore;

var builder = WebApplication.CreateBuilder(args);

// Add services to the container.

builder.Services.AddControllers();

// Learn more about configuring OpenAPI at https://aka.ms/aspnet/openapi

builder.Services.AddOpenApi();

var app = builder.Build();

// Configure the HTTP request pipeline.

if (app.Environment.IsDevelopment())

{

app.MapScalarApiReference(); // scalar/v1

app.MapOpenApi();

}

app.UseHttpsRedirection();

app.UseAuthorization();

app.MapControllers();

app.Run();

1. Run app.
2. Open Scalar using:  
   <https://localhost:7036/scalar/v1>
3. Using JWT:

* Add jwt support same as before

Add to program.cs:

builder.Services.AddOpenApi(options =>

{

options.AddDocumentTransformer<BearerSecuritySchemeTransformer>();

});

Add Transformer class:

internal sealed class BearerSecuritySchemeTransformer(IAuthenticationSchemeProvider authenticationSchemeProvider) : IOpenApiDocumentTransformer

{

public async Task TransformAsync(OpenApiDocument document, OpenApiDocumentTransformerContext context, CancellationToken cancellationToken)

{

var authenticationSchemes = await authenticationSchemeProvider.GetAllSchemesAsync();

if (authenticationSchemes.Any(authScheme => authScheme.Name == "Bearer"))

{

var requirements = new Dictionary<string, OpenApiSecurityScheme>

{

["Bearer"] = new OpenApiSecurityScheme

{

Type = SecuritySchemeType.Http,

Scheme = "bearer", // "bearer" refers to the header name here

In = ParameterLocation.Header,

BearerFormat = "Json Web Token"

}

};

document.Components ??= new OpenApiComponents();

document.Components.SecuritySchemes = requirements;

}

}

}