

# Swagger installeren in Web API (ASP.NET Core)

- 1) Installeer de NuGet Package [Swashbuckle.AspNetCore](#)
- 2) Open je startup.cs en voeg de volgende lijnen toe :
  - Aan ConfigureServices(..) :

```
public void ConfigureServices(IServiceCollection services)
{
    //services.ConfigureDbContext(Configuration);
    services.AddDbContext<RepositoryContext>(opts =>
opts.UseSqlServer(Configuration.GetConnectionString("sqlConnection"), b =>
    b.MigrationsAssembly("StudentSubjects")));
    // services.ConfigureLoggerService();

    services.ConfigureRepositoryManager();
    services.AddAutoMapper(typeof(Startup));
    services.Configure<ApiBehaviorOptions>(options =>
    {
        options.SuppressModelStateInvalidFilter = true;
    });
    services.AddControllers();
    services.AddSwaggerGen(s =>
    {
        s.SwaggerDoc("v1", new OpenApiInfo
        {
            Title = "Students & Subjects API",
            Version = "v1"
        });
    });
}
```

- Aan Configure(...) :

```
public void Configure(IApplicationBuilder app, IWebHostEnvironment
env) //, ILoggerManager logger)
{
    if (env.IsDevelopment())
    {
        app.UseDeveloperExceptionPage();
    }
    // app.ConfigureExceptionHandler(logger);

    app.UseHttpsRedirection();
    //app.UseStaticFiles();
    app.UseSwagger();
    app.UseSwaggerUI(s =>
    {
        s.SwaggerEndpoint("/swagger/v1/swagger.json", "API v1");
    });

    app.UseRouting();

    app.UseAuthorization();

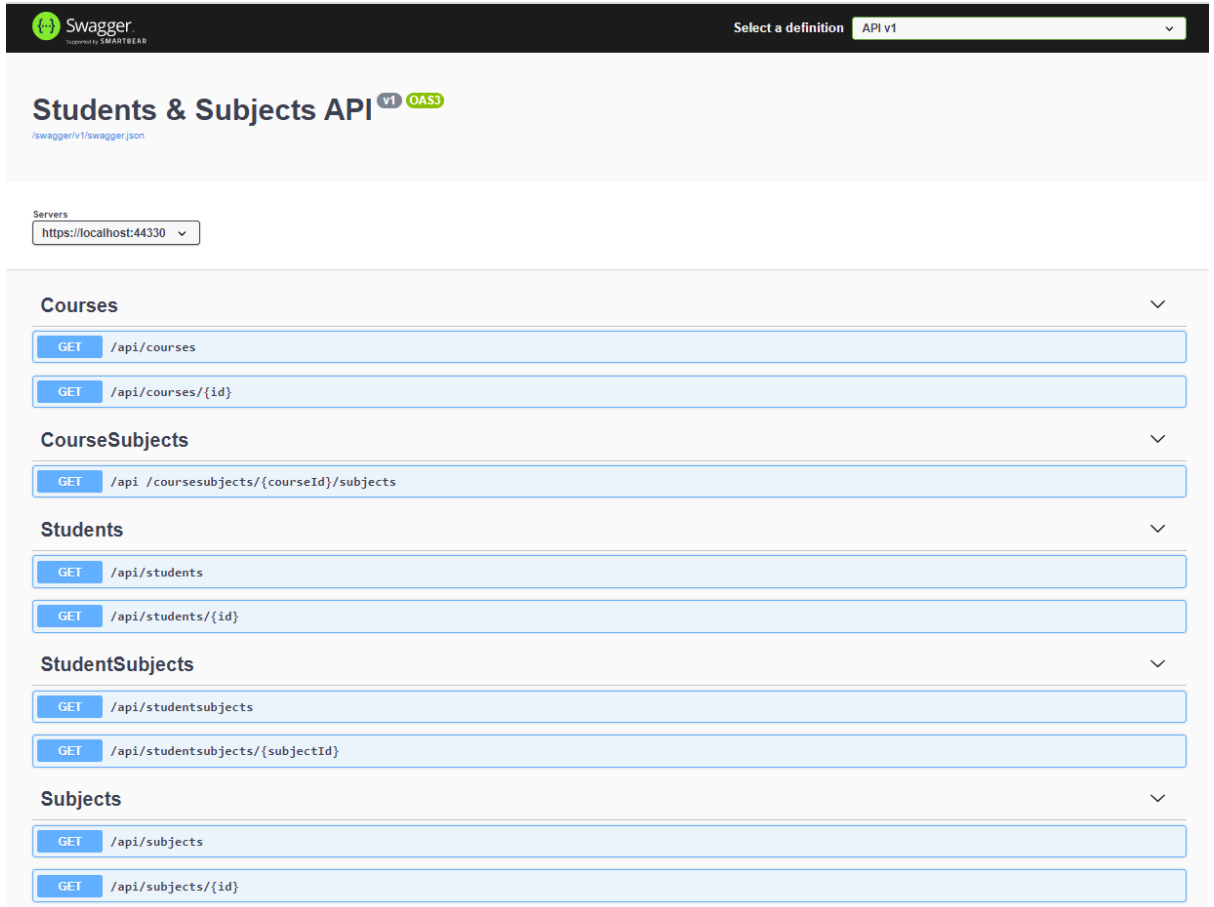
    app.UseEndpoints(endpoints =>
```

```
    {
        endpoints.MapControllers();
    });
}
```

**3) Open launchSettings.json en pas de LaunchUrl aan in het Profile voor IIS Express:**

```
{
  "$schema": "http://json.schemastore.org/launchsettings.json",
  "iisSettings": {
    "windowsAuthentication": false,
    "anonymousAuthentication": true,
    "iisExpress": {
      "applicationUrl": "http://localhost:57380",
      "sslPort": 44330
    }
  },
  "profiles": {
    "IIS Express": {
      "commandName": "IISExpress",
      "launchBrowser": true,
      "launchUrl": "swagger",
      "environmentVariables": {
        "ASPNETCORE_ENVIRONMENT": "Development"
      }
    },
    "StudentSubjects": {
      "commandName": "Project",
      "launchBrowser": true,
      "launchUrl": "weatherforecast",
      "applicationUrl": "https://localhost:5001;http://localhost:5000",
      "environmentVariables": {
        "ASPNETCORE_ENVIRONMENT": "Development"
      }
    }
  }
}
```

4) Run je Web API met IIS Express en je krijgt het volgende scherm te zien :



The image shows the Swagger UI for the "Students & Subjects API v1". The header includes the Swagger logo, the text "Powered by SMARTBEAR", and a "Select a definition" dropdown menu set to "API v1". The main title is "Students & Subjects API v1" with an "OAS3" badge. Below the title is the URL "/swagger/v1/swagger.json". A "Servers" dropdown menu is set to "https://localhost:44330". The API is organized into several sections, each with a dropdown arrow:

- Courses**
  - GET /api/courses
  - GET /api/courses/{id}
- CourseSubjects**
  - GET /api /coursesubjects/{courseId}/subjects
- Students**
  - GET /api/students
  - GET /api/students/{id}
- StudentSubjects**
  - GET /api/studentsubjects
  - GET /api/studentsubjects/{subjectId}
- Subjects**
  - GET /api/subjects
  - GET /api/subjects/{id}

Klik bv de Courses GET /api/courses open en op de button «Try it out »  
Daarna op de button “Execute”:

Courses

GET /api/courses

Parameters

No parameters

Execute Clear

Responses

Curl

```
curl -X GET "https://localhost:44330/api/courses" -H "accept: */*"
```

Request URL

```
https://localhost:44330/api/courses
```

Server response

Code	Details
200	<p>Response body</p> <pre>[{"id": "3cc1e5c0-838d-4012-bc3d-f770eb669e1a", "name": "DotNet Developer", "description": "Backend .Net Developer in C#", "startDate": "2021-10-01T00:00:00", "numberOfLessons": 985, "courseSubjects": null}, {"id": "00a18bcf-607e-4084-a49d-cd524769dbc9", "name": "Front-end Developer", "description": "Front-end Javascript and css", "startDate": "2021-04-01T00:00:00", "numberOfLessons": 850, "courseSubjects": null}]</pre> <p>Response headers</p> <pre>content-type: application/json; charset=utf-8 date: Thu, 11 Feb 2021 18:04:42 GMT server: Microsoft-IIS/10.0 x-powered-by: ASP.NET</pre>

Onderaan vind je de Response body en status code (200)