**01| Model Creation**

* **Meetup.Entities**
  + **Create .Net Standard Library project**
  + **Add nugget packages**
    - **Microsoft.EntityFrameworkCore**
    - **Microsoft.EntityFrameworkCore.SqlServer**
  + **Generate model using scaffolding service**
    - **Scaffold-DbContext "Data Source=.\SQLEXPRESS;Initial Catalog=MeetupDb;Integrated Security=SSPI;" Microsoft.EntityFrameworkCore.SqlServer -OutputDir Models –f**

**02| API Creation**

* + **Meetup.Api**
  + **Create .Net Core Web API project**
  + **Add meetup controller using Entity Framework**
  + **Run and invoke value controller to verify the initial structure**
  + **Add Swagger**
    - **NugEt package: Swashbuckle.AspNetCore**
    - **Usage:** [**https://github.com/domaindrivendev/Swashbuckle.AspNetCore**](https://github.com/domaindrivendev/Swashbuckle.AspNetCore)
  + **Test Get/Post with Swagger**
  + **Add Analyzer**
    - **Nuget Package: Microsoft.AspNetCore.Mvc.Api.Analyzers**
  + **Verify Analyzer effects**

**03| API Client Creation**

* **Meetup.Client**
  + **Create .Net Standard library project**
  + **Open Nswag Studio:** [**https://github.com/RSuter/NSwag/wiki/NSwagStudio**](https://github.com/RSuter/NSwag/wiki/NSwagStudio)
  + **Generate client code**

**04| Test Cases Creation**

* **Meetup.Test**
  + **Create Xunit test project**
  + **Add nugget packages**
    - **Xunit**
    - **xunit.runner.visualstudio**
  + **Basic/Advance test cases**

**05| HTTP REPL**

* + **Download:** [**https://dotnet.myget.org/feed/dotnet-core/package/nuget/dotnet-httprepl**](https://dotnet.myget.org/feed/dotnet-core/package/nuget/dotnet-httprepl)
  + **Install: dotnet tool install -g --version 2.2.0-\* --add-source https://dotnet.myget.org/F/dotnet-core/api/v3/index.json dotnet-httprepl**
  + **Verify: dotnet tool list -g**
  + **Example:**
    - **set base** [**https://api.github.com**](https://api.github.com/)
    - **Get**
    - **get emojis**
    - **type in browser** [**https://assets-cdn.github.com/images/icons/emoji/unicode/1f4a4.png?v8**](https://assets-cdn.github.com/images/icons/emoji/unicode/1f4a4.png?v8)
  + **Add to VS:**
    - **Add httprepl from C:\Users\user\.dotnet\tools\dotnet-httprepl.exe**
    - **Choose browse with HTTP REPL**
    - **get api/values**
    - **ui**

**Set Default Editor**

**pref set editor.command.default "C:\Users\user\AppData\Local\Programs\Microsoft VS Code\code.exe"**

* + **Construct the request**
    - **post -h Content-Type:application/json**

Startup.cs

--------------

using System.IO;

using Meetup.Entities.Models;

using Microsoft.AspNetCore.Builder;

using Microsoft.AspNetCore.Hosting;

using Microsoft.AspNetCore.Mvc;

using Microsoft.EntityFrameworkCore;

using Microsoft.Extensions.Configuration;

using Microsoft.Extensions.DependencyInjection;

using Microsoft.Extensions.PlatformAbstractions;

using Swashbuckle.AspNetCore.Swagger;

namespace Meetup.Api

{

public class Startup

{

public Startup(IConfiguration configuration)

{

Configuration = configuration;

}

public IConfiguration Configuration { get; }

// Use this method to add services to the container.

public void ConfigureServices(IServiceCollection services)

{

services.AddMvc().SetCompatibilityVersion(CompatibilityVersion.Version\_2\_2);

services.AddDbContext<MeetupDbContext>(options => options.UseSqlServer("Data Source=.\\SQLEXPRESS;Initial Catalog=MeetupDb;Integrated Security=SSPI;"));

services.AddSwaggerGen(options =>

{

options.SwaggerDoc("v1",

new Info

{

Title = "Meetup API",

Version = "v1",

Description = "Meetup API Services",

TermsOfService = "WTFPL",

Contact = new Contact

{

Email = "vkg.mca@gmail.com",

Name = "Vinod Gupta",

Url = "https://github.com/vkg-mca"

}

}

);

var xmlDocFile = Path.Combine(PlatformServices.Default.Application.ApplicationBasePath, "Meetup.Api.xml");

options.IncludeXmlComments(xmlDocFile);

options.DescribeAllEnumsAsStrings();

});

}

// Use this method to configure the HTTP request pipeline.

public void Configure(IApplicationBuilder app, IHostingEnvironment env)

{

if (env.IsDevelopment())

{

app.UseDeveloperExceptionPage();

};

app.UseSwagger();

app.UseSwaggerUI(c =>

{

c.SwaggerEndpoint("/swagger/v1/swagger.json", "Meetup API V1");

});

app.UseMvc();

}

}

}