

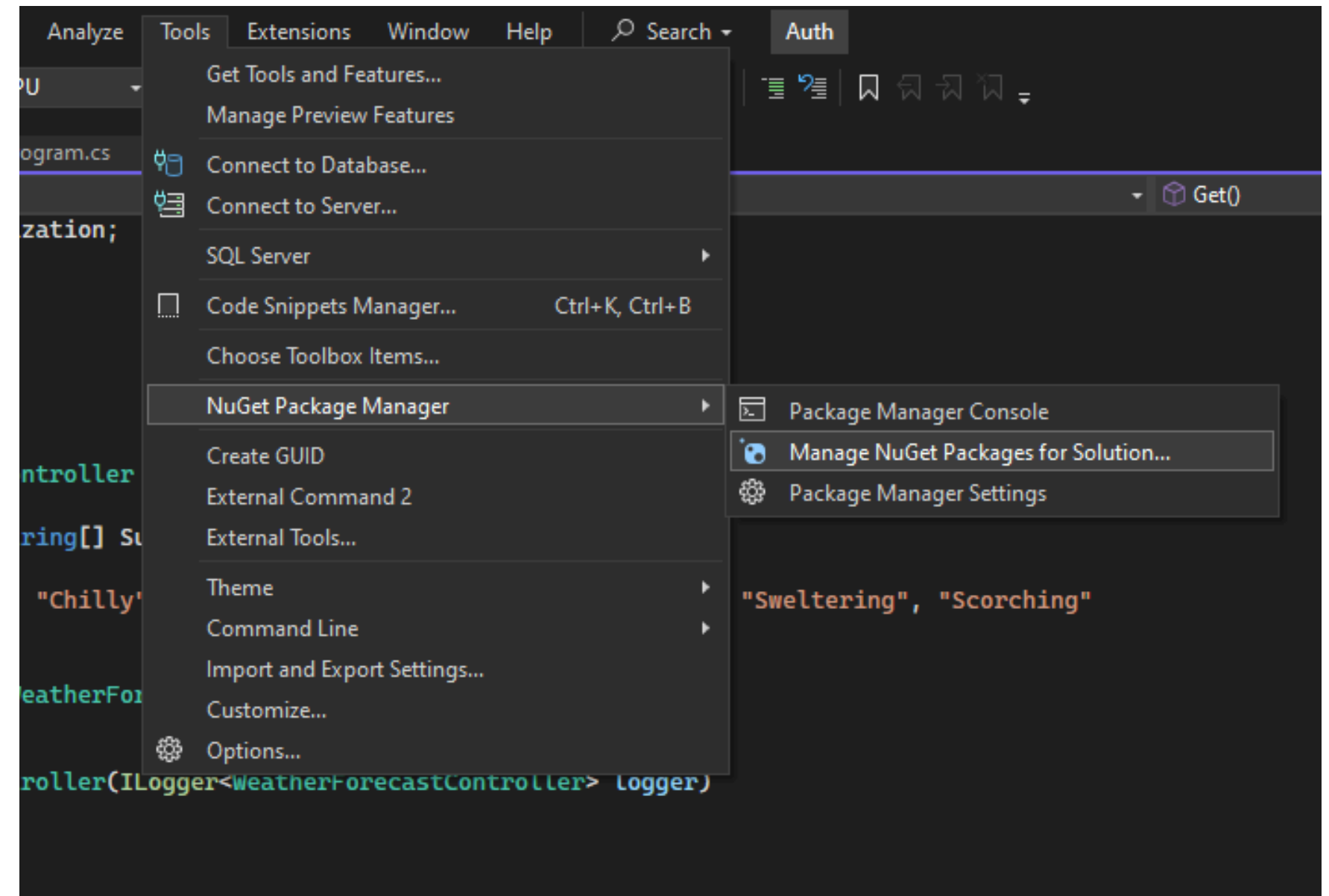


Authentication sử dụng Identity

Nhóm 2

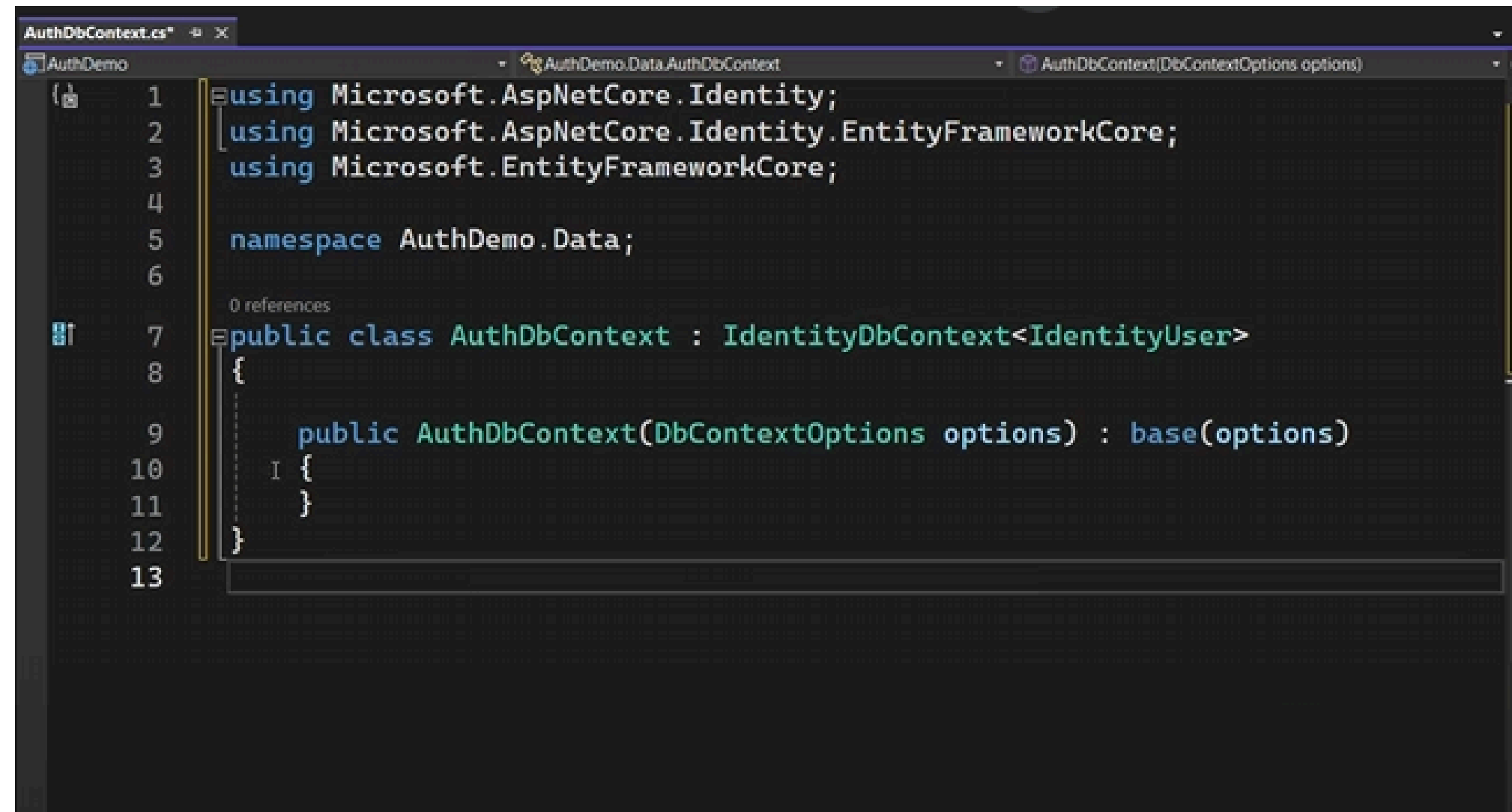
Cài đặt NuGet Package

- Chọn Tools -> NuGet Package Manager -> Manage Packages for Solution..
- Tìm và cài đặt Package sau:
 - Microsoft.AspNetCore.Identity.EntityFrameworkCore



Setup DbContext

Cho DbContext thừa kế
`IdentityDbContext<IdentityUser>`



```
AuthDbContext.cs
AuthDemo
AuthDemo.Data.AuthDbContext
AuthDbContext(DbContextOptions options)

1 using Microsoft.AspNetCore.Identity;
2 using Microsoft.AspNetCore.Identity.EntityFrameworkCore;
3 using Microsoft.EntityFrameworkCore;
4
5 namespace AuthDemo.Data;
6
7 public class AuthDbContext : IdentityDbContext<IdentityUser>
8 {
9     public AuthDbContext(DbContextOptions options) : base(options)
10     {
11     }
12 }
13
```

Setup Program.cs

Add các Services: AddDbContext, AddAuthorization, AddIdentityApiEndpoints, .AddEntityFrameworkStores vào Program.cs

```
builder.Services.AddDbContext<AuthDbContext>(options =>
{
    var connectionString = builder.Configuration.GetConnectionString("DefaultConnection");
    options.UseSqlServer(connectionString);
});

builder.Services.AddAuthorization();
builder.Services.AddIdentityApiEndpoints<IdentityUser>()
    .AddEntityFrameworkStores<AuthDbContext>();
```

```
builder.Services.AddSwaggerGen(options =>
{
    options.SwaggerDoc("v1", new SwaggerDocumentInfo
    {
        Title = "API v1",
        Version = "v1",
    });
});

var app = builder.Build();

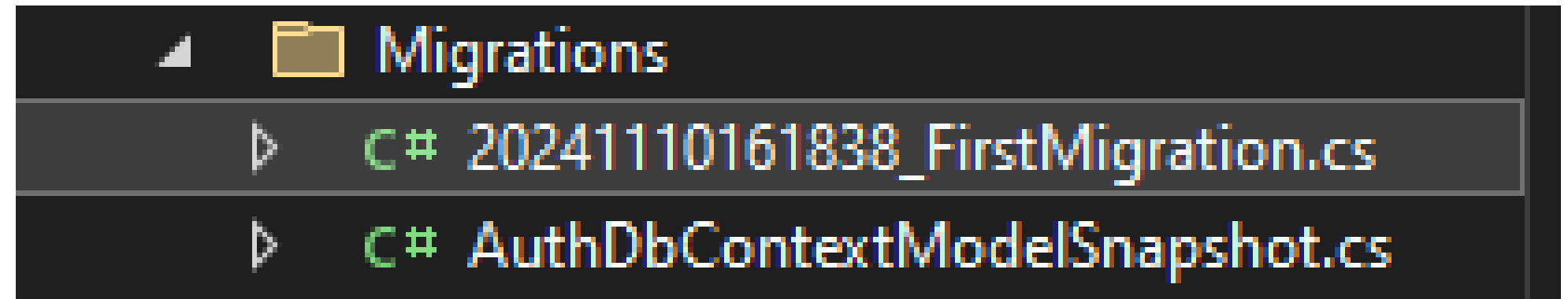
app.MapIdentityApi<IdentityUser>();

// ...
```

Tạo Migration và update database để tạo Table

Mở Package Manager Console và
tạo Migration:

Add-Migration TênMigration



```
using System;
using Microsoft.EntityFrameworkCore.Migrations;

#nullable disable

namespace Auth.Migrations
{
    /// <inheritdoc />
    public partial class FirstMigration : Migration
    {
        /// <inheritdoc />
        protected override void Up(MigrationBuilder migrationBuilder)
        {
            migrationBuilder.CreateTable(
                name: "AspNetRoles",
                columns: table => new
                {
                    Id = table.Column<string>(type: "nvarchar(450)", nullable: false),
                    Name = table.Column<string>(type: "nvarchar(256)", maxLength: 256, nullable: true),
                    NormalizedName = table.Column<string>(type: "nvarchar(256)", maxLength: 256, nullable: true),
                    ConcurrencyStamp = table.Column<string>(type: "nvarchar(max)", nullable: true)
                },
                constraints: table =>
                {
                    table.PrimaryKey("PK_AspNetRoles", x => x.Id);
                });

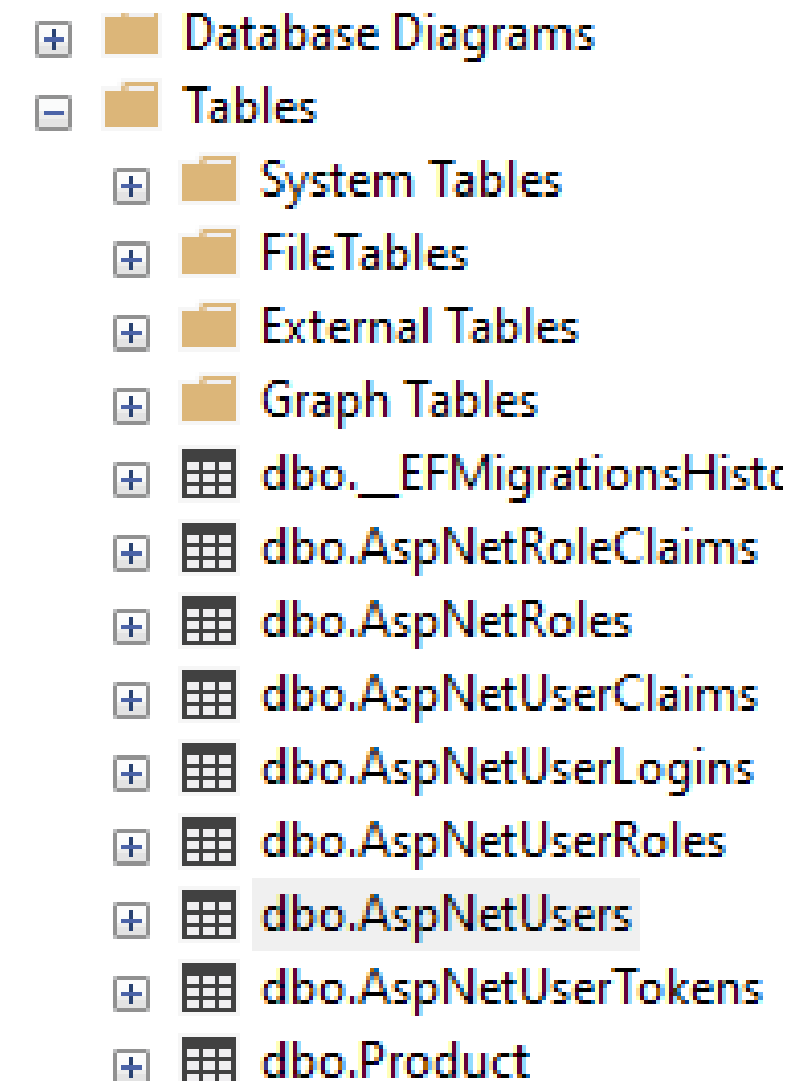
            migrationBuilder.CreateTable(
                name: "AspNetUsers",
                columns: table => new
                {
                    Id = table.Column<string>(type: "nvarchar(450)", nullable: false),
                    UserName = table.Column<string>(type: "nvarchar(256)", maxLength: 256, nullable: true),
                    NormalizedUserName = table.Column<string>(type: "nvarchar(256)", maxLength: 256, nullable: true),
                    Email = table.Column<string>(type: "nvarchar(256)", maxLength: 256, nullable: true),
                    NormalizedEmail = table.Column<string>(type: "nvarchar(256)", maxLength: 256, nullable: true),
                    EmailConfirmed = table.Column<bool>(type: "bit", nullable: false),
                    PasswordHash = table.Column<string>(type: "nvarchar(max)", nullable: true),
                    SecurityStamp = table.Column<string>(type: "nvarchar(max)", nullable: true),
                    ConcurrencyStamp = table.Column<string>(type: "nvarchar(max)", nullable: true),
                });
        }
    }
}
```

Tạo Migration và update database để tạo Table

Sau khi add Migration thành công, tiếp theo ta update Database :

update-database

Khi Update database thành công,
MySQL Server sẽ tự động tạo ra
những bảng bên ->



Setup Program.cs

Thêm Services.AddSwaggerGen
bao gồm những options:

- SwaggerDoc
- AddSecurityDefinition
- AddSecurityRequirement

```
builder.Services.AddControllers();  
// Learn more about configuring Swagger/OpenAPI at https://aka.ms/aspnetcore/swashbuckle  
builder.Services.AddEndpointsApiExplorer();  
builder.Services.AddSwaggerGen(options =>  
{  
    options.SwaggerDoc("v1", new Microsoft.OpenApi.Models.OpenApiInfo()  
    {  
        Title = "Auth Demo",  
        Version = "v1"  
    });  
  
    options.AddSecurityDefinition("Bearer", new Microsoft.OpenApi.Models.OpenApiSecurityScheme()  
    {  
        In = Microsoft.OpenApi.Models.ParameterLocation.Header,  
        Description = "Please enter a token",  
        Name = "Authorization",  
        Type = Microsoft.OpenApi.Models.SecuritySchemeType.Http,  
        BearerFormat = "JWT",  
        Scheme = "bearer"  
    });  
  
    options.AddSecurityRequirement(new Microsoft.OpenApi.Models.OpenApiSecurityRequirement()  
    {  
        {  
            new OpenApiSecurityScheme  
            {  
                Reference = new OpenApiReference  
                {  
                    Type = ReferenceType.SecurityScheme,  
                    Id = "Bearer"  
                }  
            },  
            []  
        }  
    });  
});
```