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GitHub Link:-[https://github.com/Riteshksahoo/Cognizant\_6364581\_Ritesh](#_top)CognizantDotNet

**-----------------------------------------------------------------------------------------**

**Web API (Handson 05)  
  
Controllers--> AuthController.cs**using System.IdentityModel.Tokens.Jwt;

using System.Security.Claims;

using System.Text;

using Microsoft.AspNetCore.Authorization;

using Microsoft.AspNetCore.Mvc;

using Microsoft.IdentityModel.Tokens;

namespace SwaggerDemoAPI.Controllers

{

[Route("api/[controller]")]

[ApiController]

[AllowAnonymous]

public class AuthController : ControllerBase

{

[HttpGet("GenerateToken")]

public IActionResult GetToken()

{

var token = GenerateJSONWebToken(1, "Admin");

return Ok(token);

}

private string GenerateJSONWebToken(int userId, string userRole)

{

var securityKey = new SymmetricSecurityKey(Encoding.UTF8.GetBytes("mysuperdupersecret"));

var credentials = new SigningCredentials(securityKey, SecurityAlgorithms.HmacSha256);

var claims = new List<Claim>

{

new Claim(ClaimTypes.Role, userRole),

new Claim("UserId", userId.ToString())

};

var token = new JwtSecurityToken(

issuer: "mySystem",

audience: "myUsers",

claims: claims,

expires: DateTime.Now.AddMinutes(10),

signingCredentials: credentials

);

return new JwtSecurityTokenHandler().WriteToken(token);

}

}

}

**Program.cs**using Microsoft.AspNetCore.Authentication.JwtBearer;

using Microsoft.IdentityModel.Tokens;

using System.Text;

using SwaggerDemoAPI.Filters;

var builder = WebApplication.CreateBuilder(args);

string securityKey = "mysuperdupersecret";

var symmetricSecurityKey = new SymmetricSecurityKey(Encoding.UTF8.GetBytes(securityKey));

builder.Services.AddScoped<CustomExceptionFilter>();

builder.Services.AddControllers(options =>

{

options.Filters.Add<CustomExceptionFilter>();

});

builder.Services.AddCors(options =>

{

options.AddDefaultPolicy(policy =>

{

policy.AllowAnyOrigin()

.AllowAnyHeader()

.AllowAnyMethod();

});

});

builder.Services.AddAuthentication(x =>

{

x.DefaultAuthenticateScheme = JwtBearerDefaults.AuthenticationScheme;

x.DefaultChallengeScheme = JwtBearerDefaults.AuthenticationScheme;

})

.AddJwtBearer(x =>

{

x.TokenValidationParameters = new TokenValidationParameters

{

ValidateIssuer = true,

ValidateAudience = true,

ValidateLifetime = true,

ValidateIssuerSigningKey = true,

ValidIssuer = "mySystem",

ValidAudience = "myUsers",

IssuerSigningKey = symmetricSecurityKey

};

});

builder.Services.AddEndpointsApiExplorer();

builder.Services.AddSwaggerGen();

var app = builder.Build();

if (app.Environment.IsDevelopment())

{

app.UseSwagger();

app.UseSwaggerUI();

}

app.UseCors();

app.UseHttpsRedirection();

app.UseAuthentication();

app.UseAuthorization();

app.MapControllers();

app.Run();