**5.WebApi\_Handson**

**CODE**:

using Microsoft.AspNetCore.Authorization;

using Microsoft.AspNetCore.Mvc;

using Microsoft.IdentityModel.Tokens;

using System.IdentityModel.Tokens.Jwt;

using System.Security.Claims;

using System.Text;

namespace SwaggerDemoApi.Controllers

{

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

[ApiController]

[AllowAnonymous]

public class AuthController : ControllerBase

{

[HttpGet("token")]

public IActionResult GetToken()

{

// Simulate user ID and role

int userId = 1;

string userRole = "Admin";

var token = GenerateJSONWebToken(userId, userRole);

return Ok(new { 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(2),

signingCredentials: credentials);

return new JwtSecurityTokenHandler().WriteToken(token);

}

}

}

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**OUTPUT:**







