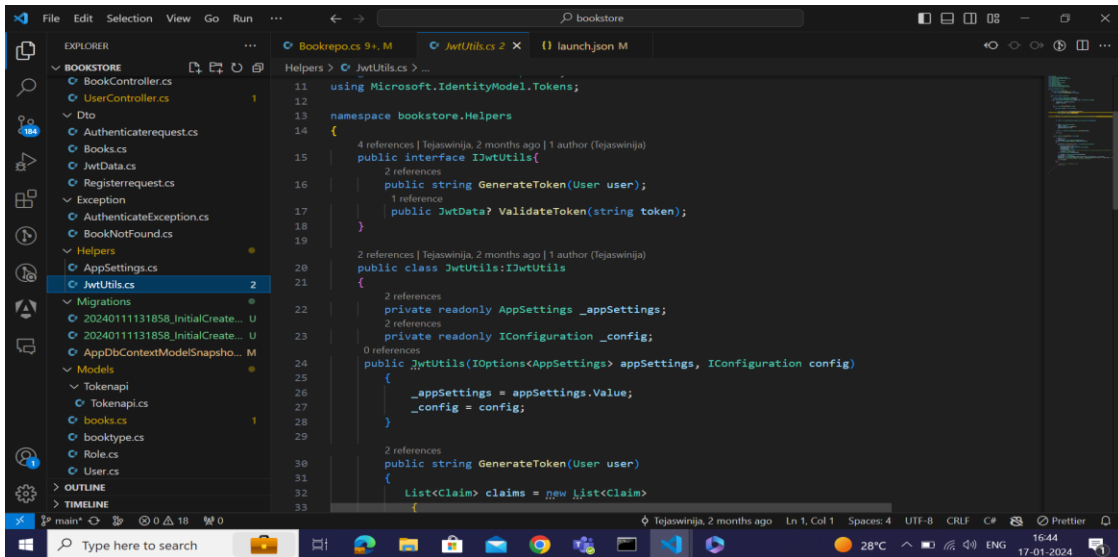


WEB API WITH JWT



```
using Microsoft.IdentityModel.Tokens;

namespace bookstore.Helpers
{
    public interface IJwtUtils
    {
        public string GenerateToken(User user);
        public JwtData? ValidateToken(string token);
    }

    public class JwtUtils : IJwtUtils
    {
        private readonly AppSettings _appSettings;
        private readonly IConfiguration _config;

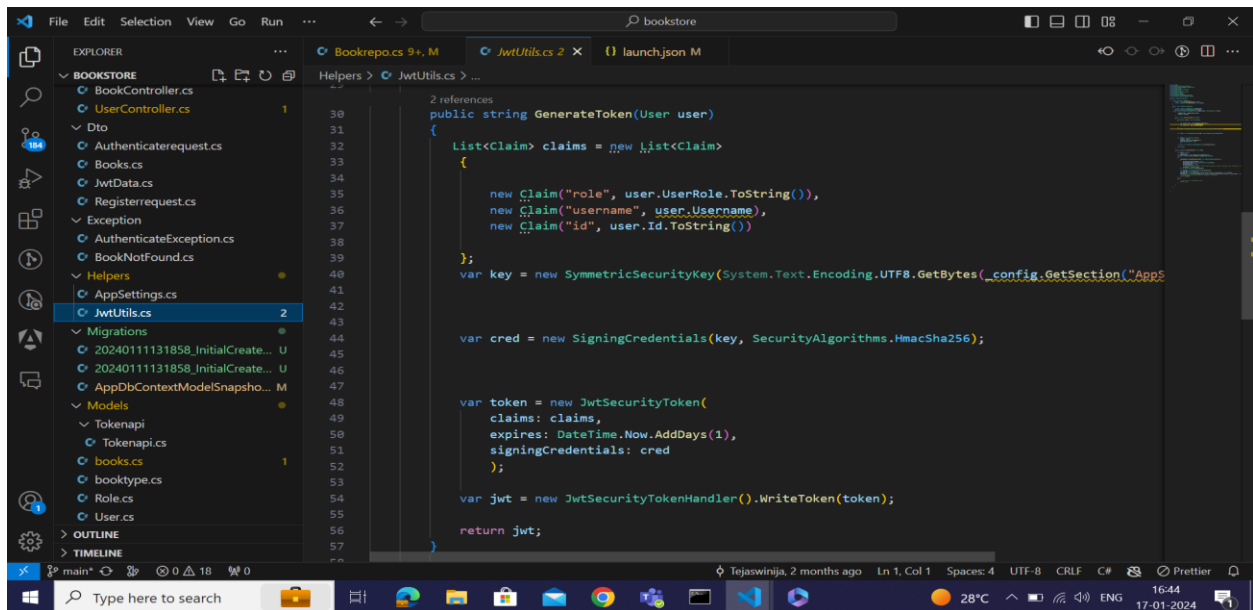
        public JwtUtils(IOptions<AppSettings> appSettings, IConfiguration config)
        {
            _appSettings = appSettings.Value;
            _config = config;
        }

        public string GenerateToken(User user)
        {
            List<Claim> claims = new List<Claim>
            {
                new Claim("role", user.UserRole.ToString()),
                new Claim("username", user.Username),
                new Claim("id", user.Id.ToString())
            };

            var key = new SymmetricSecurityKey(System.Text.Encoding.UTF8.GetBytes(_config.GetSection("AppSettings:Key").Value));
            var creds = new SigningCredentials(key, SecurityAlgorithms.HmacSha256);

            var token = new JwtSecurityToken(
                _appSettings.Issuer,
                _appSettings.Audience,
                claims,
                expires: DateTime.Now.AddDays(1),
                signingCredentials: creds
            );

            return new JwtData
            {
                Token = new JwtSecurityTokenHandler().WriteToken(token),
                Expires = DateTime.Now.AddDays(1)
            };
        }
    }
}
```



```
public string GenerateToken(User user)
{
    List<Claim> claims = new List<Claim>
    {
        new Claim("role", user.UserRole.ToString()),
        new Claim("username", user.Username),
        new Claim("id", user.Id.ToString())
    };

    var key = new SymmetricSecurityKey(System.Text.Encoding.UTF8.GetBytes(_config.GetSection("AppSettings:Key").Value));
    var creds = new SigningCredentials(key, SecurityAlgorithms.HmacSha256);

    var token = new JwtSecurityToken(
        _appSettings.Issuer,
        _appSettings.Audience,
        claims,
        expires: DateTime.Now.AddDays(1),
        signingCredentials: creds
    );

    var jwt = new JwtSecurityTokenHandler().WriteToken(token);

    return jwt;
}
```

