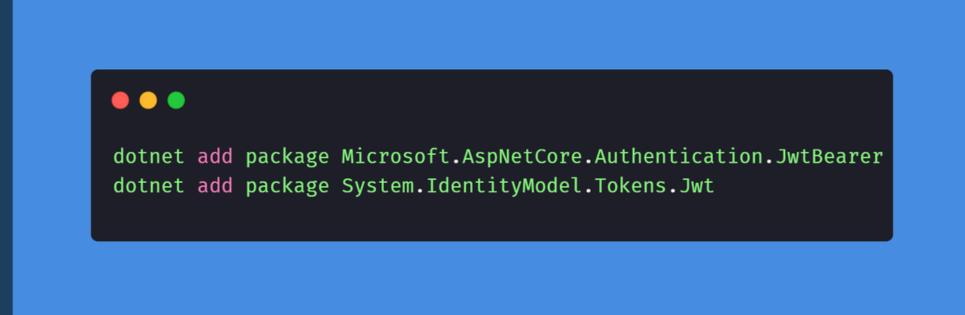
JWT Tokens

1. Install the Required NuGet Packages

Make sure your project has these packages:



2. Add JWT Settings to appsettings.json

```
"JwtSettings": {
    "SecretKey": "YourSuperSecretKeyHere123!",
    "Issuer": "YourApp",
    "Audience": "YourAppUsers",
    "ExpiryInMinutes": 60
}
```

3. Configure Authentication in Program.cs or Startup.cs

```
var jwtSettings = builder.Configuration.GetSection("JwtSettings");
var secretKey = Encoding.UTF8.GetBytes(jwtSettings["SecretKey"]);
builder.Services.AddAuthentication(options ⇒
    options.DefaultAuthenticateScheme = JwtBearerDefaults.AuthenticationScheme;
    options.DefaultChallengeScheme = JwtBearerDefaults.AuthenticationScheme;
.AddJwtBearer(options ⇒
    options.TokenValidationParameters = new TokenValidationParameters
        ValidateIssuer = true,
        ValidateAudience = true,
        ValidateLifetime = true,
        ValidateIssuerSigningKey = true,
       ValidIssuer = jwtSettings["Issuer"],
        ValidAudience = jwtSettings["Audience"],
        IssuerSigningKey = new SymmetricSecurityKey(secretKey)
    };
});
```

4. Create a Token Generator Helper

```
public class JwtTokenGenerator
    private readonly IConfiguration _config;
    public JwtTokenGenerator(IConfiguration config)
        _config = config;
    public string GenerateToken(string userId, string email)
       var claims = new[]
           new Claim(JwtRegisteredClaimNames.Sub, userId),
           new Claim(JwtRegisteredClaimNames.Email, email),
           new Claim(JwtRegisteredClaimNames.Jti, Guid.NewGuid().ToString())
        };
       var key = new SymmetricSecurityKey(Encoding.UTF8.GetBytes(_config["JwtSettings:SecretKey"]));
        var creds = new SigningCredentials(key, SecurityAlgorithms.HmacSha256);
        var expires = DateTime.UtcNow.AddMinutes(
         Convert.ToDouble(_config["JwtSettings:ExpiryInMinutes"]));
        var token = new JwtSecurityToken(
           issuer: _config["JwtSettings:Issuer"],
           audience: _config["JwtSettings:Audience"],
           claims: claims,
            expires: expires,
            signingCredentials: creds
        );
        return new JwtSecurityTokenHandler().WriteToken(token);
```

5. Use It in Your Login Endpoint

```
[HttpPost("login")]
public IActionResult Login([FromBody] LoginDto dto)
{
    // Example validation (replace with your DB/user check)
    if (dto.Email = "test@demo.com" & dto.Password = "123456")
    {
       var token = _jwtTokenGenerator.GenerateToken("1", dto.Email);
       return Ok(new { Token = token });
    }
    return Unauthorized();
}
```

6. Protect Your API Endpoints with [Authorize]

```
[Authorize]
[HttpGet("secure-data")]
public IActionResult GetSecureData()
{
    return Ok("You are authorized to see this!");
}
```