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Implementing basic authentication in ASP.NET Web API

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In this video we will discuss how to implement basic authentication in ASP.NET WEB API. This is continuation to Part 17. Please watch Part 17 from ASP.NET Web API tutorial.

Create Users table in SQL Server

Id	Username	Password
1	male	male
2	female	female

SQL Scrip to create the table

Create Table Users

Id int identity primary key, Username nvarchar(100), Password nvarchar(100)

Insert into Users values ('male', 'male')
Insert into Users values ('female', 'female')

If we login with "male" username, we want to display only "male" employees and if we login with "female" username, we want to display only female employees.

Update ADO.NET Entity Data Model

- 1. Open "EmployeeDataModel.edmx" in EmployeeDataAccess project
- 2. Right click on the designer surface, and select "Update Model from Database" option



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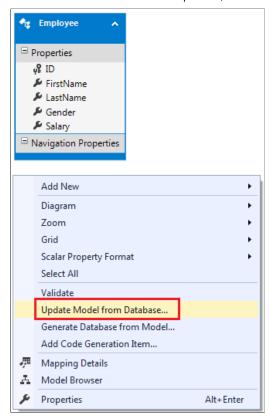
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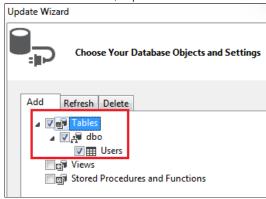
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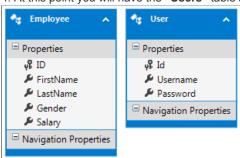
SOLID Principles



3. On the next screen, expand "Tables" and select "Users" table and click "Finish"



4. At this point you will have the "Users" table added to the Entity Data Model



Create a class that checks if the username and password are valid

 Add a new class file to EmployeeService Web API project. Name it EmployeeSecurity.cs

2. Copy and paste the following code in it

using EmployeeDataAccess;
using System;

using System.Ling;





Create basic authentication filter

 Add a new class file to EmployeeService Web API project. Name it BasicAuthenticationAttribute.cs

2. Copy and paste the following code in it

```
using System;
using System.Net;
using System.Net.Http;
using System.Security.Principal;
using System.Text;
using System. Threading;
using System.Web.Http.Controllers;
using System.Web.Http.Filters;
namespace EmployeeService
  public class BasicAuthenticationAttribute: AuthorizationFilterAttribute
     public override void OnAuthorization(HttpActionContext actionContext)
       if (actionContext.Request.Headers.Authorization == null)
         actionContext.Response = actionContext.Request
            .CreateResponse(HttpStatusCode.Unauthorized);
       else
         string authenticationToken = actionContext.Request.Headers
                           .Authorization.Parameter;
         string decodedAuthenticationToken = Encoding.UTF8.GetString(
            Convert.FromBase64String(authenticationToken));
         string[] usernamePasswordArray = decodedAuthenticationToken.Split(':');
         string username = usernamePasswordArray[0];
         string password = usernamePasswordArray[1];
         if (EmployeeSecurity.Login(username, password))
            Thread.CurrentPrincipal = new GenericPrincipal(
              new GenericIdentity(username), null);
         else
            actionContext.Response = actionContext.Request
               .CreateResponse(HttpStatusCode.Unauthorized);
       }
    }
}
```

Enable basic authentication

- 1. The BasicAuthenticationAttribute can be applied on a specific controller, specific action, or globally on all Web API controllers.
- 2. To enable basic authentication across the entire Web API application, register BasicAuthenticationAttribute as a filter using the Register() method in WebApiConfig

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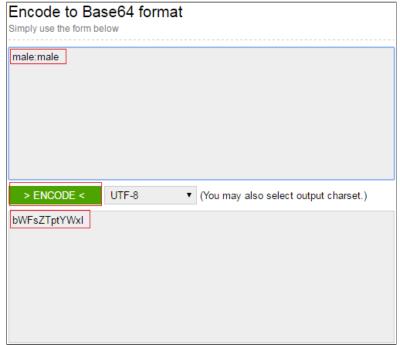
class

config.Filters.Add(new RequireHttpsAttribute());

- 3. You can also apply the attribute on a specific controller, to enable basic authentication for all the methods in that controller
- 4. In our case let's just enable basic authentication for Get() method in EmployeesController. Also modify the implementation of the Get() method as shown below.

Testing basic authentication using fiddler

- 1. The username and password need to be colon (:) separated and base64 encoded.
- 2. Just google with the string base64 encode. The first web site that you get is https://www.base64encode.org/
- 3. Enter the username and password separated by colon (:) in "Encode to Base64 format" textbox, and then click "Encode" button



4. Opend Fiddler and issue a Get request to http://localhost:35171/api/employees Testing basic authentication using fiddler.png

- 5. The request succeeds and we get the data as expected.
- 6. If we supply a username and password that does not exist we get 401 Unauthorized

In our next video we will discuss how to pass basic authentication credentials to the Web API service using jQuery AJAX.

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8 comments:



Unknown November 23, 2016 at 8:34 PM

how to add token

Reply



himanshu pareek June 18, 2017 at 3:13 AM

Nice article Venkat, but one question, why we need to add "basic" keyword in Authorization header?

Reply



July 29, 2017 at 10:53 PM

Very Nice!

The way of Explanation is Fantastic

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Unknown August 2, 2017 at 1:55 AM

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ThanhPT September 3, 2017 at 1:01 AM

What do I do when I want use basic authentication in ASP.NET MVC?

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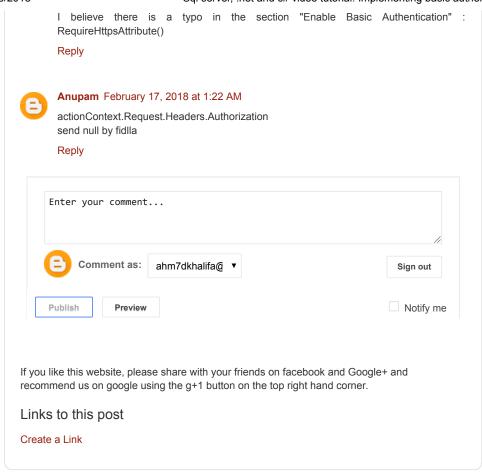


fannie December 8, 2017 at 12:15 PM

How can you make this async methods so the wont be much trafic on the authentication methods, I have my controller methods async, I need all methods to be async

Reply

Anonymous January 18, 2018 at 6:22 PM



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