



70-486^{Q&As}

Developing ASP.NET MVC Web Applications

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QUESTION 1

DRAG DROP

You are developing an ASP.NET MVC application that authenticates a user by using claims-based authentication.

The application must:

Use Windows Identity Foundation 4.5.

Support the Windows Azure Access Control Service.

You need to implement authentication.

How should you build the class constructor? (To answer, drag the appropriate code segment to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag

the split bar between panes or scroll to view content.)

Select and Place:

```
using Microsoft.IdentityModel.Claims;

public class IdentityClaim
{
    private string _identityProvider;
    private string _identityValue;
    public const string ACSProviderClaim =
        "http://schemas.microsoft.com/accesscontrolservice/...";

    public IdentityClaim( [ ] identity)
    {
        if (identity != null)
        {
            foreach (var claim in identity.Claims)
            {
                if (claim.[ ] == [ ].NameIdentifier)
                {
                    _identityValue = claim.Value;
                    if (claim.[ ] == ACSProviderClaim)
                    {
                        _identityProvider = claim.Value;
                    }
                }
            }
        }
    }
}
```

Correct Answer:



```

using Microsoft.IdentityModel.Claims;

public class IdentityClaim
{
    private string _identityProvider;
    private string _identityValue;
    public const string ACSProviderClaim =
        "http://schemas.microsoft.com/accesscontrolservice/...";

    public IdentityClaim( IClaimsIdent identity)
    {
        if (identity != null)
        {
            foreach (var claim in identity.Claims)
            {
                if (claim.ClaimType == ClaimTypes.NameIdentifier)
                {
                    _identityValue = claim.Value;
                }
                if (claim.ClaimType == ACSProviderClaim)
                {
                    _identityProvider = claim.Value;
                }
            }
        }
    }
}

```

Similar example:

For Box 1, see line 15.

For Box 2, see line 22.

For Box 3, see line 22.

For Box 4, see line 26.

using System;

02using System.Collections.Generic;

03using System.Linq;

04using System.Web;

05using Microsoft.IdentityModel.Claims;

06

07namespace MVC3MixedAuthenticationSample.Models

08{



```
09 public class IdentityClaim
10 {
11     private string _identityProvider;
12     private string _identityValue;
13     public const string ACSProviderClaim
14     ="http://schemas.microsoft.com/accesscontrolservice/2010/07/claims/identityprovider";
15
16     public IdentityClaim(IClaimsIdentity identity)
17     {
18         if (identity != null)
19         {
20             foreach (var claim in identity.Claims)
21             {
22                 if (claim.ClaimType == ClaimTypes.NameIdentifier)
23                 {
24                     _identityValue = claim.Value;
25                 }
26                 if (claim.ClaimType == ACSProviderClaim)
27                 {
28                     _identityProvider = claim.Value;
29                 }
30             }
31         }
32     }
33 }
34 }
```

QUESTION 2



DRAG DROP

You are developing an ASP.NET Core MVC web application that generates html-based reports each day. The reports are placed in a folder named Results in the root of the application.

The application must run on both Windows and Linux.

You need to ensure that reports can be downloaded.

How should you complete the code? To answer, drag the appropriate code segments to the correct locations. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to

view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Code segments	Answer Area
PhysicalFileProvider	<pre>app.UseFileServer(new FileServerOptions() { FileProvider = new [code segment] ([code segment].GetCurrentDirectory()), RequestPath = new [code segment] (''/results''), EnableDirectoryBrowsing = true, });</pre>
EmbeddedFileProvider	
Directory	
GetDirectoryContents	
PathString	
Uri	

Correct Answer:

Code segments	Answer Area
PhysicalFileProvider	<pre>app.UseFileServer(new FileServerOptions() { FileProvider = new PhysicalFileProvider (Directory.GetCurrentDirectory()), RequestPath = new PathString (''/results''), EnableDirectoryBrowsing = true, });</pre>
EmbeddedFileProvider	
GetDirectoryContents	
Uri	

Box 1: PhysicalFileProvider

Box 2: Directory

Code example.

There are three types of IFileProvider Implementations Physical File Provider - it is used to access the actual or physical file of the system

Embedded File Provider - it is used to access files that are embedded in assemblies

Composite File Provider - it is used to provide combine access to the files from one or more providers.



Box 3: Pathstring

Code example:

```
app.UseStaticFiles(new StaticFileOptions()
{
    FileProvider = new PhysicalFileProvider(
        Path.Combine(Directory.GetCurrentDirectory(), @"MyStaticFiles")),
    RequestPath = new PathString("/StaticFiles")
});
```

References:

<https://jakeydocs.readthedocs.io/en/latest/fundamentals/static-files.html>

QUESTION 3

```
01 public class HomeController : Controller
02 {
03     public ActionResult Index()
04     {
05         return View();
06     }
07     public ActionResult GetResults(int index)
08     {
09         return View();
10     }
11     public ActionResult GetUserInfo(string email)
12     {
13         return View();
14     }
15 }
```

You are preparing to test an ASP.NET application. The application includes the following class. Line numbers are included for reference only.

Data will be imported from another system into the current application. Before importing data, you must run unit tests to validate the data. To be considered valid, the data must meet the following requirements: You need to create unit tests that fail if the requirements are not met.

- The value passed into the `GetResults` method must be greater than or equal to zero.
- The value passed into the `GetUserInfo` method must not be null.



How should you complete the relevant code? To answer, select the appropriate code segment from each list in the answer area.

Hot Area:



Answer Area

	▼
[TestClass]	
[TestMethod]	
[HandleError]	
[HandleException]	

```
public class UnitTest1
{
    protected int? index;
    protected string email;
    public void index()
    {
        index = null;
        email = null;
        GetResults();
        GetUserInfo();
    }
}
```

	▼
[TestClass]	
[TestMethod]	
[HandleError]	
[HandleException]	

```
public void GetResults()
{

```

	▼
Assert.IsTrue	
Assert.IsFalse	
Assert.AreEqual	
Assert.IsNotNull	

```
(index >=0, "Test failed");
```

	▼
[TestClass]	
[TestMethod]	
[HandleError]	
[HandleException]	

```
public void GetUserInfo()
{

```

	▼
Assert.IsTrue	
Assert.IsFalse	
Assert.AreEqual	
Assert.IsNotNull	

```
(email, "Test failed" );
```

```
}
}
```




Correct Answer:



Answer Area

	▼
[TestClass]	
[TestMethod]	
[HandleError]	
[HandleException]	

```
public class UnitTest1
{
    protected int? index;
    protected string email;
    public void index()
    {
        index = null;
        email = null;
        GetResults();
        GetUserInfo();
    }
}
```

	▼
[TestClass]	
[TestMethod]	
[HandleError]	
[HandleException]	

```
public void GetResults()
{

```

	▼
Assert.IsTrue	
Assert.IsFalse	
Assert.AreEqual	
Assert.IsNotNull	

```
(index >=0, "Test failed");
```

	▼
[TestClass]	
[TestMethod]	
[HandleError]	
[HandleException]	

```
public void GetUserInfo()
{

```

	▼
Assert.IsTrue	
Assert.IsFalse	
Assert.AreEqual	
Assert.IsNotNull	

```
(email, "Test failed" );
```

```
}
}
```



Box 1: TestClass Box 2: TestMethod Box 3: Assert.IsTrue Box 4: TestMethod Box 5: Assert.IsNotNull Box 1: TestClass The [TestClass] attribute is required in the Microsoft unit testing framework for managed code for any class that contains unit test methods that you want to run in Test Explorer. Box 2: TestMethod Set the following attributes for the unit test: [TestMethod] All unit tests require the [TestMethod] attribute. Box 3: Assert.IsTrue The value passed into the GetResults method must be greater than or equal to zero. Box 4: TestMethod Box 5: Assert.IsNotNull The value passed into the GetUserInfo method must not be null. References: <https://msdn.microsoft.com/en-us/library/ms182532.aspx>

QUESTION 4

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You develop an ASP.NET Core MVC web application. You have a legacy business system that sends data to the web application by using Web API. The legacy business system uses proprietary data formats.

You need to handle the proprietary data format.

Solution: Add an instance of a custom formatter class to the InputFormatters collection in MVC.

Does the solution meet the goal?

- A. Yes
- B. No

Correct Answer: A

References: <https://www.c-sharpcorner.com/article/custom-formatters-in-asp-net-core-mvc-web-api/>

QUESTION 5

You create an ASP.NET MVC application. You host the application by using the Open Web Interface for .NET (OWIN). You run the following command by using the NuGet Package Manager console:

```
install-package Microsoft.AspNet.SignalR
```

You plan to implement real-time push notifications from the server using ASP.NET SignalR.

You need to complete the ASP.NET SignalR implementation.

Which three steps should you perform? Each correct answer presents part of the solution.

- A. Create a hub class to push content to clients.
- B. Create a class that derives from the PersistentConnection class. Use the derived class to push content to clients.
- C. Use the SignalR jQuery library in a web page to send messages to the hub and display updates from the hub.



D. Map a SignalR hub to the app builder pipeline by using an OWIN startup class.

E. Start the SignalR hub asynchronously and respond to the appropriate callback methods.

Correct Answer: ACD

A: In Solution Explorer, right-click the project, select Add | New Folder, and add a new folder named Hubs. Right-click the Hubs folder, click Add | New Item, select the Visual C# | Web | SignalR node in the Installed pane, select SignalR Hub Class (v2) from the center pane, and create a new hub named ChatHub.cs. You will use this class as a SignalR server hub that sends messages to all clients.

C: Use the SignalR jQuery library in a web page to send messages and display updates from the hub.

D: Create an OWIN startup class to configure the application.

References: <https://www.asp.net/signalr/overview/getting-started/tutorial-getting-started-with-signalr-and-mvc>

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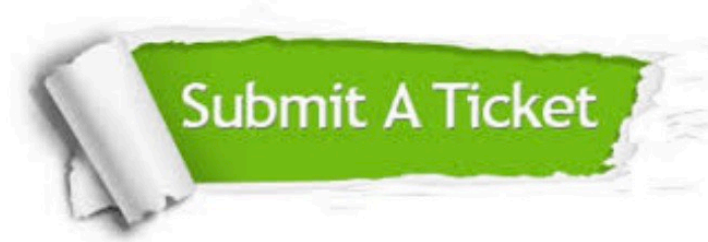
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