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- **Vendor: Microsoft**
- **Exam Code: 70-486**
- **Exam Name: Developing ASP.NET MVC 4 Web Applications**

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#### **QUESTION 1**

You are developing an ASP.NET MVC application that uses forms authentication. The user database contains a user named LibraryAdmin.

You have the following requirements:

- You must allow all users to access the GetBook method.
- You must restrict access to the EditBook method to the user named LibraryAdmin.

You need to implement the controller to meet the requirements.

Which code segment should you use?

(Each correct answer presents a complete solution. Choose all that apply.)

A. 

```
[Authorize]
public class LibraryController : Controller
{
    [AllowAnonymous]
    public ActionResult GetBook()
    {
        ...
        return View();
    }
    [Authorize(Users = "LibraryAdmin")]
    public ActionResult EditBook()
    {
        ...
        return View();
    }
}
```

- B. `[Authorize(Roles = "Anonymous")]  
public class LibraryController : Controller  
{  
 public ActionResult GetBook()  
 {  
 ...  
 return View();  
 }  
  
 [Authorize(Users = "LibraryAdmin")]  
 public ActionResult EditBook()  
 {  
 ...  
 return View();  
 }  
}`
- C. `[Authorize]  
public class LibraryController : Controller  
{  
 [AllowAnonymous]  
 public ActionResult GetBook()  
 {  
 ...  
 return View();  
 }  
  
 [Authorize]  
 public ActionResult EditBook()  
 {  
 if (this.HttpContext.User.Identity.Name != "LibraryAdmin")  
 {  
 return RedirectToAction("Login", "Account", new { ReturnUrl = "/Library/EditBook" });  
 }  
 else  
 {  
 ...  
 return View();  
 }  
 }  
}`
- D. `[Authorize]  
public class LibraryController : Controller  
{  
 [Authorize(Roles="Anonymous")]  
 public ActionResult GetBook()  
 {  
 ...  
 return View();  
 }  
  
 [Authorize(Users = "LibraryAdmin")]  
 public ActionResult EditBook()  
 {  
 ...  
 return View();  
 }  
}`

**Answer:** AC

### QUESTION 2

Drag and Drop Question

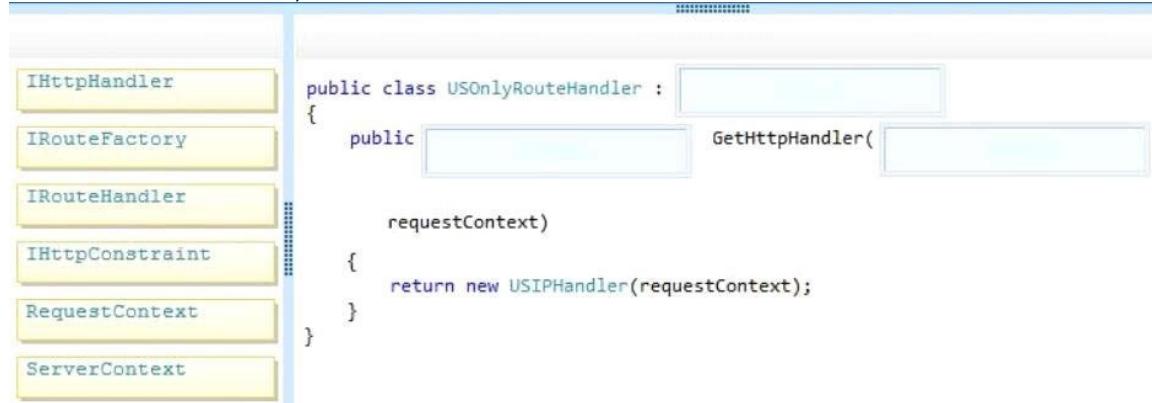
You are developing an ASP.NET MVC application that takes customer orders.

Orders are restricted to customers with IP addresses based in the United States.

You need to implement a custom route handler.

How should you implement the route handler?

(To answer, drag the appropriate line of code to the correct location or locations. Each line of code 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.)



The interface shows a list of interface names on the left and a partial C# code snippet on the right. A vertical dotted line separates the two columns. Yellow boxes highlight specific items: 'IHttpHandler' and 'IRouteHandler' in the list, and 'IRouteHandler' in the code snippet's return type. Other items like 'IRouteFactory', 'IHttpConstraint', 'HttpContext', and 'ServerContext' are also listed.

```

public class USOnlyRouteHandler : IRouteHandler
{
    public IHttpHandler GetHttpHandler(
        RequestContext)
    {
        return new USIPHandler(requestContext);
    }
}

```

**Answer:**



The interface shows the same layout as above, but with the 'IRouteHandler' interface highlighted in yellow in both the list and the code snippet's return type. The other interfaces remain unhighlighted.

```

public class USOnlyRouteHandler : IRouteHandler
{
    public IHttpHandler GetHttpHandler(
        RequestContext)
    {
        return new USIPHandler(requestContext);
    }
}

```

**Explanation:**

<http://msdn.microsoft.com/en-us/library/system.web.routing.iroutehandler.gethttpandler.aspx>

### QUESTION 3

You are designing an HTML5 website.

You need to design the interface to make the content of the web page viewable in all types of browsers, including voice recognition software, screen readers, and reading pens.

What should you do?

(Each correct answer presents a complete solution. Choose all that apply.)

- A. Annotate HTML5 content elements with Accessible Rich Internet Application (ARIA) attributes.
- B. Convert HTML forms to XForms.
- C. Ensure that HTML5 content elements have valid and descriptive names.
- D. Use HTML5 semantic markup elements to enhance the pages.



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- E. Use Resource Description Framework (RDF) to describe content elements throughout the entire page.

**Answer:** AD

**QUESTION 4**

Drag and Drop Question

You are developing an ASP.NET MVC web application in Visual Studio 2012.

The application has a model named ReservationLocation that contains properties named City and State. The view that displays reservations has a single text box named loc for entering the location information. The location is entered as city, state.

There are action methods that have ReservationLocation as a parameter type.

You need to ensure that the City and State properties are correctly populated.

How should you implement model binding for the ReservationLocation type?

(To answer, drag the appropriate code segment to the correct location or 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.)

```
bindingContext.ModelType = typeof  
(ReservationLocation);  
  
var raw = bindingContext.ValueProvider.GetValue  
("loc");  
  
dynamic data = bindingContext.ValueProvider.GetValue  
("loc");  
  
dynamic data = raw.RawValue  
.ToString().Split(',')  
  
bindingContext.ModelState.Add("city,state",  
    new ModelState { Value = data });  
  
dynamic data = controllerContext.RouteData  
.Values[raw + "[city,state]"];
```

```
public class ReservationModelBinder : IModelBinder
{
    public object BindModel(ControllerContext controllerContext,
                           ModelBindingContext bindingContext)
    {
        // Implementation code (redacted)

        return new ReservationLocation
        {
            City = data[0],
            State = data[1],
        };
    }
}
```

## Answer:

```
bindingContext.ModelType = typeof  
(ReservationLocation);
```

```
dynamic data = bindingContext.ValueProvider.GetValue  
("loc");
```

```
bindingContext.ModelState.Add("city,state",  
    new ModelState { Value = data });
```

```
dynamic data = controllerContext.RouteData  
.Values[raw + "[city,state]"];
```

```
public class ReservationModelBinder : IModelBinder  
{  
    public object BindModel(ControllerContext controllerContext,  
        ModelBindingContext bindingContext)  
    {  
        var raw = bindingContext.ValueProvider.GetValue  
            ("loc");  
  
        dynamic data = raw.RawValue  
            .ToString().Split(',');  
  
        return new ReservationLocation  
        {  
            City = data[0],  
            State = data[1],  
        };  
    }  
}
```

#### QUESTION 5

You are developing an ASP.NET MVC application in Visual Studio 2012. The application supports multiple cultures. The application contains three resource files in the Resources directory:

- My Dictionary.resx
- MyDictionary.es.resx
- MyDictionary.fr.resx

Each file contains a public resource named Title with localized translation. The application is configured to set the culture based on the client browser settings. The application contains a controller with the action defined in the following code segment. (Line numbers are included for reference only.)

```
01 public ActionResult GetProducts()
02 {
03
04     List<ProductModel> products = DataBase.DBAccess.GetProducts();
05     return View(products);
06 }
```

You need to set ViewBag.Title to the localized title contained in the resource files.  
Which code segment should you add to the action at line 03?

- A. ViewBag.Title = HttpContext.GetGlobalResourceObject("MyDictionary", "Title");
- B. ViewBag.Title = HttpContext.GetGlobalResourceObject("MyDictionary", "Title", new System.Globalization.CultureInfo("en"));
- C. ViewBag.Title = Resources.MyDictionary.Title;
- D. ViewBag.Title = HttpContext.GetLocalResourceObject("MyDictionary", "Title");

**Answer:** C

#### QUESTION 6

You are testing an ASP.NET application. The test plan requires that tests run against the application's business layer.

You need to use the test project template that meets this requirement.  
Which template should you use?

- A. Web Test Project
- B. Load Test Project
- C. Unit Test Project
- D. Coded Test Project

**Answer:** C

#### QUESTION 7

You are developing an ASP.NET MVC web application that includes the following method.

```
public double AccountBalance(double currentBalance, double transactionAmount)
{
    double finalBalance = 0.00;
    finalBalance = currentBalance + transactionAmount;
    return finalBalance;
}
```

You need to test the AccountBalance method.  
Which unit test should you use?

- C A. [TestMethod()]  
private void AccountBalanceTest()  
{  
 double currentBalance = 175.05;  
 double transactionAmount = 76.03;  
 double finalBalance = 251.08;  
 double result = 0.00;  
  
 result = AccountBalance(currentBalance, transactionAmount);  
 Assert.AreEqual(finalBalance, result);  
}
- C B. [TestMethod()]  
public void AccountBalanceTest()  
{  
 double currentBalance = 175.05;  
 double transactionAmount = 76.03;  
 double finalBalance = 251.08;  
 double result = 0.00;  
  
 result = AccountBalance(currentBalance, transactionAmount);  
 Assert.IsTrue(finalBalance, result);  
}
- C C. [TestMethod()]  
public void AccountBalanceTest()  
{  
 double currentBalance = 175.05;  
 double transactionAmount = 76.03;  
 double finalBalance = 251.08;  
 double result = 0.00;  
  
 result = AccountBalance(currentBalance, transactionAmount);  
 Assert.AreEqual(finalBalance, result);  
}
- C D. [UnitTest()]  
public void AccountBalanceTest()  
{  
 double currentBalance = 175.05;  
 double transactionAmount = 76.03;  
 double finalBalance = 251.08;  
 double result = 0.00;  
  
 result = AccountBalance(currentBalance, transactionAmount);  
 Assert.AreEqual(finalBalance, result);  
}

- A. Option A  
B. Option B

- C. Option C
- D. Option D

**Answer:** C

**Explanation:**

<http://msdn.microsoft.com/en-us/magazine/cc163665.aspx>

[http://msdn.microsoft.com/en-us/library/microsoft.visualstudio.testtools.unittesting.assert.areequal\(v=vs.110\).aspx](http://msdn.microsoft.com/en-us/library/microsoft.visualstudio.testtools.unittesting.assert.areequal(v=vs.110).aspx)

### QUESTION 8

You are authoring unit tests. The unit tests must test code that consumes sealed classes.

You need to create, maintain, and inject dependencies in the unit tests.

Which isolation method should you use?

- A. T4 text templates and code generation
- B. Stub types
- C. Shim types
- D. Hard-coded implementation

**Answer:** C

**Explanation:**

<http://msdn.microsoft.com/en-us/library/hh549176.aspx>

Shim types are one of two technologies that the Microsoft Fakes Framework uses to let you easily isolate components under test from the environment.

Shims divert calls to specific methods to code that you write as part of your test.

Many methods return different results dependent on external conditions, but a shim is under the control of your test and can return consistent results at every call.

This makes your tests much easier to write.

### QUESTION 9

You are developing an ASP.NET MVC application by using Visual Studio 2012.

The application throws and handles exceptions when it runs.

You need to examine the state of the application when exceptions are thrown.

What should you do?

- A. From the Debug menu in Visual Studio 2012, select Exceptions.  
Enable the Thrown check box for Common Language Runtime Exceptions.
- B. From the DEBUG menu in Visual Studio 2012, select Attach to Process. Select the IIS process.
- C. From the Debug menu in Visual Studio 2012, select Exceptions.  
Disable the User-unhandled check box for Common Language Runtime Exceptions.
- D. From the TOOLS menu in Visual Studio 2012, click Customize.  
Click the Commands tab and select Debug.

**Answer:** A

### QUESTION 10

You are developing an ASP.NET MVC news aggregation application that will be deployed to servers on multiple networks. The application must be compatible with multiple browsers.

A user can search the website for news articles.

You must track the page number that the user is viewing in search results.

You need to program the location for storing state information about the user's search.

What should you do?

- A. Store search results and page index in Session.
- B. Use Application state to store search terms and page index.
- C. Use QueryString to store search terms and page index.
- D. Store search results and page index in TempData

**Answer:** C

**QUESTION 11**

You are developing an ASP.NET MVC application.  
The application is deployed in a web farm and is accessed by many users.  
The application must handle web server failures gracefully.  
The servers in the farm must share the state information.  
You need to persist the application state during the session.  
What should you implement?

- A. A state server
- B. Cookieless sessions
- C. A web garden on the web servers
- D. An InProc session

**Answer:** A

**QUESTION 12**

You are developing an ASP.NET MVC application that displays stock market information.  
The stock market information updates frequently and must be displayed in real-time.  
You need to eliminate unnecessary header data, minimize latency, and transmit data over a full-duplex connection.  
What should you do?

- A. Implement long-running HTTP requests.
- B. Instantiate a MessageChannel object on the client.
- C. Implement WebSockets protocol on the client and the server.
- D. Configure polling from the browser.

**Answer:** C

**QUESTION 13**

You are designing a distributed application that runs on the Windows Azure platform. The application must store a small amount of insecure global information that does not change frequently.  
You need to configure the application to meet the requirements.  
Which server-side state management option should you use?  
(Each correct answer presents a complete solution. Choose all that apply.)

- A. Windows Azure application state
- B. Sql Azure
- C. Profile properties of the Windows Azure application
- D. Windows Azure session state

**Answer:** BD

**QUESTION 14**

**Drag and Drop Question**

You are developing an ASP.NET MVC application that has pages for users who browse the site with Windows Phone 7. The pages for Windows Phone 7 include the following files:

- \_Layout.WP7.cshtml
- Index.WP7.cshtml

You need to update the application so that it renders the customized files correctly to Windows Phone 7 users.

How should you update the Application\_Start method?

(To answer, drag the appropriate line of code to the correct location or locations. Each line of code 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.)

```

protected void Application_Start()
{
    DisplayModeProvider.Instance.Modes.Insert(0, new
    {
        Name = "WP7"
    });

    ContextCondition = (context =>
        context.GetOverriddenUserAgent().IndexOf("Windows Phone OS", StringComparison.OrdinalIgnoreCase) >= 0
    );
}

AreaRegistration.RegisterAllAreas();

```

**Answer:**

```

protected void Application_Start()
{
    DisplayModeProvider.Instance.Modes.Insert(0, new
    {
        Name = "WP7"
    });

    DefaultDisplayMode ("WP7");

    ContextCondition = (context =>
        context.GetOverriddenUserAgent().IndexOf("Windows Phone OS", StringComparison.OrdinalIgnoreCase) >= 0
    );

    AreaRegistration.RegisterAllAreas();
}

```

**Explanation:**

<http://techbrij.com/1013/display-mode-mobile-tablet-tv-aspnet-mvc>

**QUESTION 15**

You are developing an ASP.NET MVC web application for viewing a photo album. The application is designed for devices that support changes in orientation, such as tablets and smartphones.

The application displays a grid of photos in portrait mode. When the orientation changes to landscape, each tile in the grid expands to include a description.

The HTML that creates the gallery interface resembles the following markup.

The CSS used to style the tiles in landscape mode is as follows.

```
<ul class="gallery">
  <li>
    
    <div>Description</div>
  </li>
</ul>
```

The CSS used to style the tiles in portrait mode is as follows.

```
ul.gallery > li {
  width: 100px;
}

ul.gallery > li > div {
  display: none;
}
```

If this CSS is omitted, the existing CSS displays the tiles in landscape mode.  
You need to update the portrait mode CSS to apply only to screens with a width less than 500 pixels.

Which code segment should you use?

- A. @media resolution(max-width: 500px) { . . . }
- B. @media screen(min-width: 0px, max-width: 500px) { . . . }
- C. @media screen and (width <= 500px) { . . . }
- D. @media screen and (max-width: 500px) { . . . }

**Answer:** D

**Explanation:**

<http://www.javascriptkit.com/dhtmltutors/cssmediaqueries.shtml>

#### **QUESTION 16**

You are developing an ASP.NET MVC application in Visual Studio 2012.

The application contains sensitive bank account data.

The application contains a helper class named SensitiveData.Helpers.CustomEncryptor.

```
public class CustomEncryptor
{
    public string Encrypt(string plaintext)
    {
        ...
    }
}
```

The application contains a controller named **BankAccountController** with two actions.

```
public class BankAccountController : Controller
{
    public ActionResult GetAccounts()
    {
        ...
    }

    public ActionResult EditAccount(string maskedAccountNum)
    {
        ...
    }
}
```

The application contains a model named **BankAccount**, which is defined in the following code segment.

```
public class BankAccount
{
    public string AccountNumber { get; set; }
    public string AccountName { get; set; }
    public double Balance { get; set; }
}
```

The application must not display AccountNumber in clear text in any URL.

You need to build the view for the GetAccounts action.

How should you build the view?

(To answer, drag the appropriate code segment to the correct location or 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.)

custEncrypt  
maskedAccountNum  
Html  
Encrypt(item.AccountNumber)  
Encode(item.AccountNumber)

```

@model IEnumerable<SensitiveData.Models.GamerAccount>
@{SensitiveData.Helpers.CustomEncryptor custEncrypt =
    new SensitiveData.Helpers.CustomEncryptor();}
<h2>GetAccounts</h2>
<table>
    <tr>
        <th>Account Name</th>
        <th>Balance</th>
    </tr>
    @foreach (var item in Model)
    {
        <tr>
            <td>@Html.DisplayFor(modelItem => item.AccountName)</td>
            <td>@Html.DisplayFor(modelItem => item.Highscore)</td>
            <td>
                @Html.ActionLink("Edit", "EditAccount",
                    new {
                        maskedAccountNum = custEncrypt.Encrypt(item.AccountNumber)
                    })
            </td>
        </tr>
    }
</table>

```

**Answer:**

Html  
Encode(item.AccountNumber)

```

@model IEnumerable<SensitiveData.Models.GamerAccount>
@{SensitiveData.Helpers.CustomEncryptor custEncrypt =
    new SensitiveData.Helpers.CustomEncryptor();}
<h2>GetAccounts</h2>
<table>
    <tr>
        <th>Account Name</th>
        <th>Balance</th>
    </tr>
    @foreach (var item in Model)
    {
        <tr>
            <td>@Html.DisplayFor(modelItem => item.AccountName)</td>
            <td>@Html.DisplayFor(modelItem => item.Highscore)</td>
            <td>
                @Html.ActionLink("Edit", "EditAccount",
                    new {
                        maskedAccountNum = custEncrypt.Encrypt(item.AccountNumber)
                    })
            </td>
        </tr>
    }
</table>

```

**QUESTION 17**

You are developing an ASP.NET MVC application.

You need to authenticate clients by using NT LAN Manager (NTLM).

Which authentication method should you implement?

- A. Basic
- B. Windows
- C. Forms
- D. Kerberos

**Answer:** B

**Explanation:**

[http://msdn.microsoft.com/en-us/library/aa292114\(v=vs.71\).aspx](http://msdn.microsoft.com/en-us/library/aa292114(v=vs.71).aspx)

### QUESTION 18

Drag and Drop Question

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.)

```
using Microsoft.IdentityModel.Claims;

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

    public IdentityClaim([PlaceholderBox1] identity)
    {
        if (identity != null)
        {
            foreach (var claim in identity.Cclaims)
            {
                if (claim.[PlaceholderBox2] == [PlaceholderBox3].NameIdentifier)
                {
                    _identityValue = claim.Value;
                }
                if (claim.[PlaceholderBox4] == ACSProviderClaim)
                {
                    _identityProvider = claim.Value;
                }
            }
        }
    }
}
```

**Answer:**

```

ClaimNames
ClaimTypes
IIdentityCla
IClaimsIdent
ClaimType
ClaimName

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;
                }
            }
        }
    }
}

```

### QUESTION 19

You are developing an ASP.NET MVC application. The application must allow users to enter JavaScript in a feedback text box only.

You need to disable request validation. What should you do?

- A. Apply and set the CausesClientSideValidation attribute on the text box to FALSE.
- B. Apply and set the ValidateInput attribute on the text box to FALSE.
- C. Use the HttpRequest.Unvalidated property to read the unvalidated form value.
- D. Use the HttpRequest.Form property to read the unvalidated form value.

**Answer:** C

**Explanation:**

Provides access to HTTP request values without triggering request validation.

<http://msdn.microsoft.com/en-us/library/system.web.httprequest.unvalidated.aspx>

### QUESTION 20

You are developing an ASP.NET MVC application that will be deployed on a web farm.

Passwords must be stored in the web.config file and must not be readable or in a format that is easily decodable.

You need to encrypt the passwords that are stored in the web.config file.

Which command-line tool should you use?

- A. Aspnet\_regiis.exe
- B. Ngen.exe
- C. Aspnet\_merge.exe
- D. EdmGen.exe

**Answer:** A**Explanation:**[http://msdn.microsoft.com/en-us/library/zhhddkxy\(v=vs.100\).aspx](http://msdn.microsoft.com/en-us/library/zhhddkxy(v=vs.100).aspx)**QUESTION 21**

Hotspot Question

You are developing an ASP.NET MVC application.

You need to store membership information in a Microsoft SQL Server database.

How should you configure the membership provider?

(To answer, select the appropriate options in the answer area.)

## Work Area

```
<configuration>
  <connectionStrings>
    <add name="SqlServices"
      connectionString="Data Source=localhost;
      Integrated Security=SSPI;Initial Catalog=aspnetdb;" />
  </connectionStrings>
  <system.web>
    <authentication mode="Forms" >
      <forms loginUrl="login.aspx"
        name=".ASPFXFORMSAUTH" />
    </authentication>
    <authorization>
      <deny users="?" />
    </authorization>
    <membership defaultProvider="SqlProvider">
      <providers>
        <add
          name="SqlProvider"

          applicationName="MyApplication" />
        </providers>
      </membership>
    </system.web>
  </configuration>
```

**Answer:**

## Work Area

```
<configuration>
  <connectionStrings>
    <add name="SqlServices"
      connectionString="Data Source=localhost;
      Integrated Security=SSPI;Initial Catalog=aspnetdb;" />
  </connectionStrings>
  <system.web>
    <authentication mode="Forms" >
      <forms loginUrl="login.aspx"
        name=".ASPFXFORMSAUTH" />
    </authentication>
    <authorization>
      <deny users="?" />
    </authorization>
    <membership defaultProvider="SqlProvider">
      <providers>
        <add
          name="SqlProvider"
          type="System.Web.Security.SqlMembershipProvider"
          type="System.Web.Security.SqlProvider"
          namespace="System.Web.Security.SqlMembershipProvider"
          namespace="System.Web.Security.SqlProvider"
          connectionString="SqlServices"
          connectionStringName="SqlServices"
          applicationName="MyApplication" />
      </providers>
    </membership>
  </system.web>
</configuration>
```

**QUESTION 22**

You are designing a distributed application. The application must store a small amount of insecure global information that does not change frequently.

You need to configure the application to meet the requirements.

Which server-side state management option should you use?

(Each correct answer presents a complete solution. Choose all that apply.)

- A. Application state
- B. Session state
- C. Database support

- D. Profile properties

**Answer:** AB

#### **QUESTION 23**

You are developing an ASP.NET MVC application. The application is deployed in a web farm and is accessed by many users.

The application must handle web server failures gracefully.

The servers in the farm must share the short-term state information.

You need to persist the application state during the session.

What should you implement?

- A. ASP.NET session state
- B. A local database
- C. A state server
- D. Profile properties

**Answer:** C

#### **QUESTION 24**

You are developing an ASP.NET MVC application that will be deployed to servers on multiple networks. The application must be compatible with multiple browsers.

You must track the page number that the user is viewing in search results.

You need to program the location for storing state information.

Where should you persist state information?

- A. Session
- B. QueryString
- C. Application
- D. TempData

**Answer:** B

#### **QUESTION 25**

Hotspot Question

You are developing an ASP.NET MVC web application that enables users to open Microsoft Excel files. The current implementation of the ExcelResult class is as follows.

```
public class ExcelResult : ActionResult
{
    public string Path { get; set; }

    public override void ExecuteResult(ControllerContext context)
    {
        ...
    }
}
```

You need to enable users to open Excel files. How should you implement the ExecuteResult method? (To answer, select the appropriate options in the answer area.)

Work Area

```
var response = context.HttpContext.Response;
var request = context.HttpContext.Request;

var canProcess = request.AcceptTypes.Contains("application/vnd.ms-excel");
var canProcess = request.ContentType.Contains("application/vnd.ms-excel");

if (canProcess)
{
    response.Clear();

    response.AddHeader("content-disposition", "attachment; filename=dl");
    response.Output.Write("content-disposition", "application/vnd.ms-excel");

    response.ContentType = "application/vnd.ms-excel";
    response.ContentEncoding = new UTF8Encoding

    response.WriteFile(context.HttpContext.Server.MapPath(Path));
}
```

**Answer:**

Work Area

```
var response = context.HttpContext.Response;
var request = context.HttpContext.Request;

var canProcess = request.AcceptTypes.Contains("application/vnd.ms-excel");
var canProcess = request.ContentType.Contains("application/vnd.ms-excel");

if (canProcess)
{
    response.Clear();

    response.AddHeader("content-disposition", "attachment; filename=dl");
    response.Output.Write("content-disposition", "application/vnd.ms-excel");

    response.ContentType = "application/vnd.ms-excel";
    response.ContentEncoding = new UTF8Encoding

    response.WriteFile(context.HttpContext.Server.MapPath(Path));
}
```

**QUESTION 26**

You are developing an ASP.NET MVC web application in Visual Studio 2012. The application requires several thousand content files.

All content is hosted on the same IIS instance as the application.  
You detect performance issues when the application starts.  
You need to resolve the performance issues.  
What should you do?

- A. Implement HTTP caching in the ASP.NET MVC controllers.
- B. Combine the content files by using ASP.NET MVC bundling.
- C. Install a second IIS instance.
- D. Move the content to a Windows Azure CDN.

**Answer:** B

### QUESTION 27

You are designing an HTML5 website.  
You need to design the interface such that the content is viewable in all types of browsers, including screen readers.  
What should you do? (Each correct answer presents a complete solution. Choose all that apply.)

- A. Ensure that content elements have valid and descriptive names.
- B. Use Resource Description Framework (RDF) to describe content elements.
- C. Convert HTML forms to XForms.
- D. Use HTML5 semantic markup elements.
- E. Annotate content elements with Accessible Rich Internet Application (ARIA) attributes.

**Answer:** DE

### QUESTION 28

You are developing an ASP.NET MVC application in Visual Studio 2012. The application supports multiple cultures.

The application contains three resource files in the Resources directory:

- ProductDictionary.resx
- ProductDictionary.es.resx
- ProductDictionary.fr.resx

Each file contains a public resource named Currency with the localized currency symbol. The application is configured to set the culture based on the client browser settings. The application contains a controller with the action defined in the following code segment. (Line numbers are included for reference only.)

```
01 public ActionResult GetProducts()
02 {
03
04     List<ProductModel> products = DataBase.DBAccess.GetProducts();
05     return View(products);
06 }
```

You need to set ViewBag.LocalizedCurrency to the localized currency contained in the resource files. Which code segment should you add to the action at line 03?

- A. ViewBag.LocalizedCurrency = Resources.ProductDictionary.Currency;
- B. ViewBag.LocalizedCurrency = HttpContext.GetGlobalResourceObject("ProductDictionary", "Currency", new System.Globalization.CultureInfo("en-US"));
- C. ViewBag.LocalizedCurrency = HttpContext.GetLocalResourceObject("ProductDictionary", "Currency");
- D. ViewBag.LocalizedCurrency = HttpContext.GetGlobalResourceObject("ProductDictionary", "Currency");

**Answer:** A

**QUESTION 29**

You are developing an ASP.NET MVC application.  
You need to authenticate clients by using an ASP.NET membership database.  
Which authentication method should you implement?

- A. Kerberos
- B. Forms
- C. Basic
- D. Windows

**Answer:** B

**QUESTION 30**

You are developing an ASP.NET MVC web application that includes the following method.

```
public double GoldMined(double currentGold, double newlyMinedGold)
{
    double totalGold = 0.00;
    totalGold = currentGold + newlyMinedGold;
    return totalGold;
}
```

You need to test the GoldMined method. Which unit test should you use?

- C A. [TestMethod()]  
public void GoldMinedTest()  
{  
 double currentGold = 175.05;  
 double newlyMinedGold = 76.03;  
 double totalGold = 251.08;  
 double result = 0.00;  
  
 result = GoldMined(currentGold, newlyMinedGold);  
 Assert.IsTrue(totalGold, result);  
}
- C B. [TestMethod()]  
private void GoldMinedTest()  
{  
 double currentGold = 175.05;  
 double newlyMinedGold = 76.03;  
 double totalGold = 251.08;  
 double result = 0.00;  
  
 result = GoldMined(currentGold, newlyMinedGold);  
 Assert.AreEqual(totalGold, result);  
}
- C C. [UnitTest()]  
public void GoldMinedTest()  
{  
 double currentGold = 175.05;  
 double newlyMinedGold = 76.03;  
 double totalGold = 251.08;  
 double result = 0.00;  
  
 result = GoldMined(currentGold, newlyMinedGold);  
 Assert.AreEqual(totalGold, result);  
}
- C D. [TestMethod()]  
public void GoldMinedTest()  
{  
 double totalGold = 175.05;  
 double newlyMinedGold = 76.03;  
 double totalGold = 251.08;  
 double result = 0.00;  
  
 result = GoldMined(currentGold, newlyMinedGold);  
 Assert.AreEqual(totalGold, result);  
}



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- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** D

**QUESTION 31**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You have received instructions to create a new abc.com website, using HTML5.

You have been informed that the interface has to allow for the web page content to be accessible to disabled users.

Which of the following actions should you take?

- A. You should consider including the use of File API attributes.
- B. You should consider including the use of WebSocket API attributes.
- C. You should consider including the use of Accessible Rich Internet Application (ARIA) attributes.
- D. You should consider including the use of Geolocation attributes.
- E. You should consider including the use of Indexed Database API attributes.

**Answer:** C

**QUESTION 32**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You are making use of Visual Studio 2012 to create a new ASP.NET MVC web application for abc.com.

You want to make sure that the new application has access to content files located on the same IIS instance as the application.

Subsequent to initializing the application, you find that there are problems relating to the application's performance.

Which of the following actions should you take fix the problem?

- A. You should consider including the use of WebSocket API attributes.
- B. You should consider making use of ASP.NET MVC bundling to join the content files.
- C. You should consider including the use of Accessible Rich Internet Application (ARIA) attributes.
- D. You should consider making use of ASP.NET MVC bundling to separate the content files.

**Answer:** B

**QUESTION 33**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You are making use of Visual Studio 2012 to create a new ASP.NET MVC web application for abc.com. The new application allows for users from various countries to access the application based on their respective cultures.

As a result, the application includes various resource files in the Resources directory.

These files include a public resource with localized translation.

You are required to make use of a specific WebViewPage property so that the application sets the user's client browser according to the settings.

Which of the following actions should you take?

- A. You should consider making use of the ViewContext property.
- B. You should consider making use of the Html property.
- C. You should consider making use of the ViewBag property.
- D. You should consider making use of the ViewData property.

**Answer:** C

**QUESTION 34**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You have recently developed an ASP.NET application for abc.com. You are planning to assess the new application by running tests that target the application's business layer.

Which of the following actions should you take?

- A. You should consider making use of a Windows Forms Control.
- B. You should consider making use of a Coded UI Test Project.
- C. You should consider making use of a Unit Test Project.
- D. You should consider making use of a Web Performance and Load Test Performance Project.

**Answer:** C

**QUESTION 35**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You are in the process of creating unit tests that makes use of sealed classes. You want to make sure that dependencies in the unit tests are suitably created, maintained, and injected.

You want to configure the use of a suitable isolation method.

Which of the following actions should you take?

- A. You should consider making use of counterfoil type isolation methods.
- B. You should consider making use of remnant type isolation methods.
- C. You should consider making use of shim type isolation methods.
- D. You should consider making use of stump type isolation methods.

**Answer:** C

**QUESTION 36**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You are making use of Visual Studio 2012 to create a new ASP.NET MVC application for abc.com. Upon initialization of the application, you find that exceptions are thrown and handled.

You are required to find out what the state of the application is at the time of the exception being thrown. You should consider selecting Exceptions from the DEBUG menu in Visual Studio 2012.

Which of the following actions should you take? (Choose all that apply.)

- A. You should also consider selecting the User-unhandled check box for Common Language Runtime Exceptions option.
- B. You should also consider selecting the Usehandled check box for Common Language Runtime Exceptions option.
- C. You should also consider de-selecting the User-unhandled check box for Common Language Runtime Exceptions option.

- D. You should also consider de-selecting the User-unhandled check box for Common Language Runtime Exceptions option.

**Answer:** C

**QUESTION 37**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You are making use of Visual Studio 2012 to create a new ASP.NET MVC application for abc.com. abc.com has a web farm that will host the new application.

You have been informed that the application should allow for web server failures to be handled without much fuss. Furthermore, state data should be shared between the farm servers.

You are preparing to persist the application state during the session.

Which of the following actions should you take?

- A. You should consider making use of a state server.
- B. You should consider making use of a global catalog server.
- C. You should consider making use of a file server.
- D. You should consider making use of a database server.

**Answer:** A

**QUESTION 38**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You are making use of Visual Studio 2012 to create a new ASP.NET MVC application for abc.com. The application will present data that updates on a regular basis.

You have been instructed to make sure that the data is presented in instantaneously.

To achieve this, you are required to remove redundant header data, and reduce latency.

You also have to transfer information via a full-duplex link.

Which of the following actions should you take on the client and the server?

- A. You should consider making use of Named Pipes protocol.
- B. You should consider making use of Virtual Interface Adapter (VIA) protocol.
- C. You should consider making use of WebSockets protocol.
- D. You should consider making use of TCP/IP protocol.

**Answer:** C

**QUESTION 39**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You have been tasked with developing a distributed application for abc.com.

The application will be installed on the Windows Azure platform, and should allow for the storage of an insignificant number of unprotected global data.

You want to configure the use of a server-side state management option that makes use of the NetDataContractSerializer class for session state serialization internally. The option also supports simultaneous access to the same set of session state for multiple readers and a single writer.

Which of the following actions should you take?

- A. You should consider making use of Session state.
- B. You should consider making use of Windows Azure session state.
- C. You should consider making use of Control state.

- D. You should consider making use of View state.

**Answer:** B

**QUESTION 40**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You are making use of Visual Studio 2012 to create a new ASP.NET MVC application for abc.com. You have configured the application to include pages for Windows Phone 7 users to browse the site.

You have been instructed to make sure that the application is updated to allow Windows Phone 7 users to accurately view the modified files.

You are required to update a specific method.

Which of the following is the method that should be updated?

- A. The Application.OnLaunched method.
- B. The Application.Start method.
- C. The Application.OnFileActivated method.
- D. The OnSearchActivated.Start method.

**Answer:** B

**QUESTION 41**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You are making use of Visual Studio 2012 to create a new ASP.NET MVC web application for abc.com.

You have been instructed to make sure that users can only insert JavaScript into a feedback text box.

You want to make sure that HTTP request values can be accessed without triggering request validation.

Which of the following actions should you take?

- A. You should consider making use of the HttpRequest.HttpChannelBinding property.
- B. You should consider making use of the HttpRequest.QueryString property.
- C. You should consider making use of the HttpRequest.Unvalidated property.
- D. You should consider making use of the HttpRequest.AnonymousID property.

**Answer:** C

**QUESTION 42**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You are making use of Visual Studio 2012 to create a new ASP.NET MVC web application for abc.com. abc.com has a web farm that will host the new application.

You are informed that passwords should be saved in the web.config file, and should be encrypted in such a way that it is not readable, or in a format that is easily decodable.

Which of the following actions should you take?

- A. You should consider making use of the Aspnet\_regiis.exe command-line tool.
- B. You should consider making use of the Aspnet\_Ipconfig.exe command-line tool.
- C. You should consider making use of the Aspnet\_Regsvr32.exe command-line tool.
- D. You should consider making use of the Aspnet\_reg.exe command-line tool.

**Answer:** A

**QUESTION 43**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You are making use of Visual Studio 2012 to create a new ASP.NET MVC web application for abc.com. The application makes use of claims-based authentication for user authentication.

You are instructed to make sure that the application supports the Windows Azure Access Control Service, and makes use of Windows Identity Foundation 4.5.

You need to write the necessary code to apply authentication.

Which of the following actions should you take?

- A. You should consider making use of the IClaimsPrincipal interface.
- B. You should consider making use of the IClaimsIdentity interface.
- C. You should consider making use of the ClaimsAuthorizationManager class.
- D. You should consider making use of the ClaimsAuthenticationManager class

**Answer:** B

**QUESTION 44**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You are making use of Visual Studio 2012 to create a new ASP.NET MVC application for abc.com.

You want to make sure that a Microsoft SQL Server database is configured to host membership data.

You are required to configure the use of a membership provider.

Which of the following are membership providers that ships with ASP.NET? (Choose two.)

- A. A membership provider that makes use of Microsoft SQL Server as a data source.
- B. A membership provider that makes use of Oracle as a data source.
- C. A membership provider that makes use of Windows Active Directory.
- D. A membership provider that makes use of a user database as a data source.

**Answer:** AC

**QUESTION 45**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You have been tasked with developing a distributed application for abc.com.

The application should allow for the storage of an insignificant number of unprotected global data. Furthermore, you are informed that modifications to the unprotected global data rarely occur.

Which of the following actions should you take?

- A. You should consider making use of View state.
- B. You should consider making use of Control state.
- C. You should consider making use of Application state.
- D. You should consider making use of Windows Azure session state.

**Answer:** C

**QUESTION 46**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain,

named abc.com.

You are making use of Visual Studio 2012 to create a new ASP.NET MVC application for abc.com. You have been instructed to make sure that an ASP.NET membership database is used to authenticate clients.

Which of the following actions should you take?

- A. You should consider making use of Digest authentication.
- B. You should consider making use of Forms authentication.
- C. You should consider making use of Anonymous authentication.
- D. You should consider making use of Basic authentication.

**Answer:** B

#### **QUESTION 47**

You are employed as a developer at abc.com. abc.com has a single ActiveDirectory domain, named abc.com.

You are making use of Visual Studio 2012 to create a new ASP.NET MVC application for abc.com. The application is configured to include pages for Windows Phone 7 users. These pages contain the \_Layout.WP7.cshtml and Index.WP7.cshtml files.

You are required to make sure that the application suitably presents the files to Windows Phone 7 users.

You therefore need to update the application.

Which of the following actions should you take?

- A. You should consider updating the Application\_Start method.
- B. You should consider updating the Application\_OnLaunched method.
- C. You should consider updating the Application\_OnSearchActivated method.
- D. You should consider updating the Application\_OnFileActivated method.

**Answer:** A

#### **QUESTION 48**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You make use of Visual Studio 2012 to create new ASP.NET MVC web applications for abc.com. You are currently running a training exercise for junior developers.

You are discussing an HttpRequest property that returns the physical file system path that matches the requested URL.

Which of the following is the property being discussed?

- A. The HttpRequest.PhysicalPath property.
- B. The HttpRequest.Path property.
- C. The HttpRequest.PathInfo property.
- D. The HttpRequest.PhysicalApplicationPath property.

**Answer:** A

#### **QUESTION 49**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You make use of Visual Studio 2012 to create new ASP.NET MVC web applications for abc.com. You are currently running a training exercise for junior developers. You are discussing an HttpRequest property that Gets or sets the character set of the entity-body.

Which of the following is the property being discussed?

- A. The Cookies property.
- B. The ContentLength property.
- C. The ContentEncoding property.
- D. The ContentType property.

**Answer:** C

**QUESTION 50**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You make use of Visual Studio 2012 to create new ASP.NET MVC web applications for abc.com.

You are currently running a training exercise for junior developers.

You are discussing the UserHostName HttpRequest property.

Which of the following describes the purpose of this property?

- A. It returns the raw user agent string of the client browser.
- B. It returns the IP host address of the remote client.
- C. It returns a sorted string array of client language preferences.
- D. It returns the DNS name of the remote client.

**Answer:** D

**QUESTION 51**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You make use of Visual Studio 2012 to create new ASP.NET MVC web applications for abc.com.

You are currently running a training exercise for junior developers.

You are discussing a SessionState mode that stores session state in memory on the Web server.

Which of the following is the SessionState mode being discussed?

- A. The In-process mode.
- B. The Off mode.
- C. The SQLServer mode.
- D. The StateServer mode.
- E. The Custom mode.

**Answer:** A

**QUESTION 52**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You make use of Visual Studio 2012 to create new ASP.NET MVC web applications for abc.com.

You are currently running a training exercise for junior developers.

You are discussing SessionState modes.

Which of the following is the default SessionState mode?

- A. The In-process mode.
- B. The Off mode.
- C. The SQLServer mode.
- D. The StateServer mode.

E. The Custom mode.

**Answer:** A

**QUESTION 53**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You make use of Visual Studio 2012 to create new ASP.NET MVC web applications for abc.com.

You are currently running a training exercise for junior developers.

You are discussing state management options that allows the storing of data on the server.

You are currently dealing with the option that allows you to store user-specific data.

Which of the following is the option being discussed?

- A. Query Strings.
- B. Application State.
- C. Profile Properties.
- D. Session State.
- E. View State.

**Answer:** C

**QUESTION 54**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You make use of Visual Studio 2012 to create new ASP.NET MVC web applications for abc.com.

You are currently running a training exercise for junior developers.

You are discussing the HttpWorkerRequest methods.

You are currently dealing with a method that returns the specified member of the request header.

Which of the following is the method being discussed?

- A. GetHttpVersion.
- B. GetHttpVerbName.
- C. GetHashCode.
- D. GePGnownRequestHeaderName.
- E. GePGnownResponseHeaderIndex.

**Answer:** B

**QUESTION 55**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You make use of Visual Studio 2012 to create new ASP.NET MVC web applications for abc.com.

You are currently running a training exercise for junior developers.

You are discussing the HttpWorkerRequest methods.

You are currently dealing with a method that returns all nonstandard HTTP header name-value pairs.

Which of the following is the method being discussed?

- A. GetUnknownRequestHeaders.
- B. GetUnknownRequestHeader.
- C. GePGnownRequestHeaderName.
- D. GePGnownResponseHeaderIndex.

**Answer:** A

**QUESTION 56**

You are employed as a developer at abc.com. abc.com has a single Active Directory domain, named abc.com.

You make use of Visual Studio 2012 to create new ASP.NET MVC web applications for abc.com.

You are currently running a training exercise for junior developers.

You are discussing a class that converts task-returning asynchronous methods into methods that use the asynchronous programming model used in previous versions of ASP.NET.

Which of the following is the class being discussed?

- A. The EventHandlerTaskAsyncHelper class.
- B. The HttpServerUtilityBase class.
- C. The HttpRuntime class.
- D. The HttpResponse class.

**Answer:** B

**QUESTION 57**

You are developing an ASP.NET MVC application by using Visual Studio 2012.

The application throws and handles exceptions when it runs.

You need to examine the state of the application when exceptions are thrown.

What should you do?

- A. From the DEBUG menu in Visual Studio 2012, select Exceptions.  
Enable the Thrown check box for Common Language Runtime Exceptions.
- B. From the DEBUG menu in Visual Studio 2012, select Exceptions.  
Disable the User-unhandled check box for Common Language Runtime Exceptions.
- C. Add the following code to the Web.config file of the application:  
`<customErrors mode="On"> <error statusCode="500"  
redirect="CustomErrors.html" /></customErrors>`
- D. Add the following code to the Web.config file of the application:  
`<customErrors mode="On" > <error statusCode="404"  
redirect="CustomErrors.html"/> </customErrors>`

**Answer:** A

**QUESTION 58**

You are developing an ASP.NET MVC web application in Visual Studio 2012. The application requires several thousand content files. All content is hosted on the same IIS instance as the application.

You detect performance issues when the application starts.

You need to resolve the performance issues.

What should you do?

- A. Enable compression in IIS.
- B. Move the content to a second server.
- C. Combine the content files by using ASP.NET MVC bundling.
- D. Implement HTTP caching in IIS.

**Answer:** C

**QUESTION 59**

Scenario ASP.NET MVC application

**Business Requirements**

- The application stores date, distance, and duration information about a user's training runs.
- The user can view, insert, edit, and delete records.
- The application must be optimized for accessibility.
- All times must be displayed in the user's local time.

The date of the run must be displayed in ViewsRunlogGetLog.cshtml.

The timestamp must not be displayed.

You need to display the date of the run according to the business requirements.

Which code segment should you use?

- A. @Html.DisplayFor(model => log.RunDate)
- B. @log.RunDate.ToShortDateString()
- C. @log.RunDate.ToString()
- D. @Html.DisplayFor(model => log.ShortDate)

**Answer:** B

**QUESTION 60**

You are developing an ASP.NET MVC web application for viewing a list of contacts. The application is designed for devices that support changes in orientation, such as tablets and smartphones.

The application displays a grid of contact tiles in portrait mode. When the orientation changes to landscape, each tile in the grid expands to include each contact's details.

The HTML that creates the tiled interface resembles the following markup.

```
<ul class="contacts">
    <li>
        
        <div>Details</div>
    </li>
</ul>
```

The CSS used to style the tiles in landscape mode is as follows.

```
ul.contacts > li {
    width: 150px;
}

ul.contacts > li > div {
    display: block;
}
```

If this CSS is omitted, the existing CSS displays the tiles in portrait mode.

You need to update the landscape-mode CSS to apply only to screens with a width greater than or equal to 500 pixels.

Which code segment should you use?

- A. @media screen and (width >= 500px) { . . . }
- B. @media screen and (min-width: 500px) { . . . }
- C. @media screen (min-width: 500px, max-width: 1000px) { . . . }
- D. @media resolution (min-width: 500px) { . . . }

**Answer:** B

**Explanation:**

<http://www.javascriptkit.com/dhtmltutors/cssmediaqueries.shtml>

## Case Study 1 - Olympic Marathon Runners (QUESTION 61 - QUESTION 71)

For help on how to answer the questions, click the Instructions button on the question screen.

### Background

You are developing an ASP.NET MVC application in Visual Studio 2012 that will be used by Olympic marathon runners to log data about training runs.

### Business Requirements

- The application stores date, distance, and duration information about a user's training runs.
- The user can view, insert, edit, and delete records.
- The application must be optimized for accessibility.
- All times must be displayed in the user's local time.

### Technical Requirements

#### Data Access:

Database access is handled by a public class named RunnerLog.DataAccess.RunnerLogDb. All data retrieval must be done by HTTP GET and all data updates must be done by HTTP POST.

#### Layout:

All pages in the application use a master layout file named \Views\Shared\\_Layout.cshtml.

#### Models:

The application uses the \Models\LogModel.cs model.

#### Views:

All views in the application use the Razor view engine. Four views located in \Views\RunLog are named:

\_CalculatePace.cshtml  
EditLog.cshtml  
GetLog.c  
shtmlInsertLog.cshtml

The application also contains a \Views\Home\Index.cshtml view.

#### Controllers:

The application contains a \Controllers\RunLogController.cs controller.

#### Images:

A stopwatch.png image is located in the \Images folder.

#### Videos:

A map of a runner's path is available when a user views a run log. The map is implemented as an Adobe Flash application and video. The browser should display the video natively if possible, using H264, Ogg, or WebM formats, in that order. If the video cannot be displayed, then the Flash application should be used.

#### Security:

You have the following security requirements:

- The application is configured to use forms authentication.
- Users must be logged on to insert runner data.
- Users must be members of the Admin role to edit or delete runner data.
- There are no security requirements for viewing runner data.
- You need to protect the application against cross-site request forgery.
- Passwords are hashed by using the SHA1 algorithm.

RunnerLog.Providers.RunLogRoleProvider.cs contains a custom role provider. Relevant portions of the application files follow. (Line numbers are included for reference only.)

#### Application Structure

Controllers\RunLogController.cs

```
RC01 public class RunLogController : Controller
RC02 {
RC03     public ActionResult GetLog()
RC04     {
RC05         List<LogModel> log = RunnerLogDb.GetLogsFromDatabase();
RC06         return View(log);
RC07     }
RC08
RC09     public ActionResult InsertLog()
RC10     {
RC11         LogModel log = new LogModel();
RC12         log.RunDate = DateTime.Now;
RC13         return View(log);
RC14     }
RC15
RC16     [HttpPost]
RC17     public ActionResult InsertLog(LogModel log)
RC18     {
RC19         RunnerLogDb.InsertLog(log);
RC20         return RedirectToAction("GetLog");
RC21     }
RC22
RC23     public ActionResult DeleteLog(int id)
RC24     {
RC25         RunnerLogDb.DeleteLog(id);
RC26         return RedirectToAction("GetLog");
RC27     }
RC28
RC29     public ActionResult EditLog(int id)
RC30     {
RC31         LogModel log = RunnerLogDb.GetRunnerLog(id);
RC32         return View(log);
RC33     }
RC34 }
```

**Models\LogModel.cs**

```
RC01 public class RunLogController : Controller
RC02 {
RC03     public ActionResult GetLog()
RC04     {
RC05         List<LogModel> log = RunnerLogDb.GetLogsFromDatabase();
RC06         return View(log);
RC07     }
RC08
RC09     public ActionResult InsertLog()
RC10     {
RC11         LogModel log = new LogModel();
RC12         log.RunDate = DateTime.Now;
RC13         return View(log);
RC14     }
RC15
RC16     [HttpPost]
RC17     public ActionResult InsertLog(LogModel log)
RC18     {
RC19         RunnerLogDb.InsertLog(log);
RC20         return RedirectToAction("GetLog");
RC21     }
RC22
RC23     public ActionResult DeleteLog(int id)
RC24     {
RC25         RunnerLogDb.DeleteLog(id);
RC26         return RedirectToAction("GetLog");
RC27     }
RC28
RC29     public ActionResult EditLog(int id)
RC30     {
RC31         LogModel log = RunnerLogDb.GetRunnerLog(id);
RC32         return View(log);
RC33     }
RC34 }
```

**Views\RunLog\\_CalculatePace.cshtml**

```
CP01 @model RunnerLog.Models.LogModel
CP02 @(Convert.ToInt32(Model.Time.TotalMinutes / Model.Distance)) Min
CP03 @(Convert.ToInt32(Model.Time.TotalSeconds % 60 / Model.Distance)) Seconds
```

**Views\RunLog>EditLog.cshtml**

```
EL01 @model RunnerLog.Models.LogModel
EL02 <h2>Edit Log Item</h2>
EL03 <script src="@Url.Content("~/Scripts/jquery.validate.min.js")"></script>
EL04 <script src="@Url.Content("~/Scripts/jquery.validate.unobtrusive.min.js")"></
script>
EL05 @using (Html.BeginForm()) {
EL06     @Html.AntiForgeryToken()
EL07     @Html.ValidationSummary(true)
EL08     <fieldset>
EL09         <legend>LogModel</legend>
EL10         <h3>
EL11             Log Id: @Model.Id
EL12         </h3>
EL13         <div>
EL14             @Html.LabelFor(model => model.Distance)
EL15         </div>
EL16         <div>
EL17             @Html.EditorFor(model => model.Distance)
EL18             @Html.ValidationMessageFor(model => model.Distance)
EL19         </div>
EL20         <div>
EL21             @Html.LabelFor(model => model.Time)
EL22         </div>
EL23         <div>
EL24             @Html.EditorFor(model => model.Time)
EL25             @Html.ValidationMessageFor(model => model.Time)
EL26         </div>
EL27         <p>
EL28             <input type="submit" value="Save" />
EL29         </p>
EL30     </fieldset>
EL31 }
```

**Views\RunLog\GetLog.cshtml**

```
GL01  @model List<RunnerLog.Models.LogModel>
GL02  <h2>View Runs </h2>
GL03  <table>
GL04  <tr>
GL05    <th>Id </th>
GL06    <th>Date </th>
GL07    <th>Distance </th>
GL08    <th>Duration </th>
GL09    <th>Avg Mile Pace </th>
GL10  </tr>
GL11  @foreach (RunnerLog.Models.LogModel log in Model)
GL12  {
GL13    <tr>
GL14      <td>
GL15        @Html.DisplayFor(model => log.Id)
GL16      </td>
GL17      <td>
GL18      </td>
GL19      <td>
GL20      <td>
GL21        @Html.DisplayFor(model => log.Distance)
GL22      </td>
GL23      <td>
GL24        @Html.DisplayFor(model => log.Time)
GL25      </td>
GL26      <td>
GL27      </td>
GL28      <td>
GL29      <td>
GL30        @Html.ActionLink("Edit", "EditLog", new { id = log.Id })
GL31      </td>
GL32      <td>
GL33        @Html.ActionLink("Delete", "DeleteLog", new { id = log.Id })
GL34      </td>
GL35    </tr>
GL36  }
GL37  </table>
```

Views\RunLog\InsertLog.cshtml

```
IL01 @model RunnerLog.Models.LogModel
IL02 <script src="@Url.Content("~/Scripts/jquery.validate.min.js")"></script>
IL03 <script src="@Url.Content("~/Scripts/jquery.validate.unobtrusive.min.js")"></
script>
IL04 @using (Html.BeginForm())
IL05 {
IL06     @Html.ValidationSummary(true)
IL07     <fieldset>
IL08         <legend>LogModel</legend>
IL09
IL10        <div>
IL11            @Html.LabelFor(model => model.RunDate)
IL12        </div>
IL13        <div>
IL14            @Html.EditorFor(model => model.RunDate)
IL15            @Html.ValidationMessageFor(model => model.RunDate)
IL16        </div>
IL17        <div>
IL18            @Html.LabelFor(model => model.Distance)
IL19        </div>
IL20        <div>
IL21            @Html.EditorFor(model => model.Distance)
IL22            @Html.ValidationMessageFor(model => model.Distance)
IL23        </div>
IL24        <div>
IL25            @Html.LabelFor(model => model.Time) HH:MM:SS
IL26        </div>
IL27        <div>
IL28            @Html.EditorFor(model => model.Time)
IL29            @Html.ValidationMessageFor(model => model.Time)
IL30        </div>
IL31        <p>
IL32            <input type="submit" value="Create" />
IL33        </p>
IL34    </fieldset>
IL35 }
```

Views\Shared\\_Layout.cshtml

```
L001  <!DOCTYPE html>
L002  <html lang="en">
L003  <head>
L004  ...
L005  </head>
L006  <body>
L007  ...
L008  <footer>
L009
L010     <script type="text/javascript">
L011         var c = document.getElementById('myCanvas');
L012         var ctx = c.getContext('2d');
L013         ctx.font = '30pt Calibri';
L014         ctx.strokeStyle = 'gray';
L015         ctx.lineWidth = 3;
L016         ctx.strokeText('London 2012', 80, 30);
L017     </script>
L018 </footer>
L019 </body>
L020 </html>
```

**QUESTION 61**

Drag and Drop Question

You need to implement the Views\RunLog\\_CalculatePace.cshtml partial view from Views\Runlog\GetLog.cshtml to display the runner's average mile pace.

How should you implement the view?

(To answer, drag the appropriate code segments to the correct location or 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.)

The screenshot shows a Windows application window with two main panes separated by a vertical splitter bar. The left pane contains five code snippets in yellow boxes:

- @Html.Partial(
- @Html.Action(
- "\_CalculatePace.cshtml", log)
- "\_CalculatePace", log)
- "\_CalculatePace")

The right pane contains the following HTML code:

```
<td>
    @Html.DisplayFor(model => log.Time)
</td>
<td>
    [Empty]
    [Empty]
</td>
<td>
    @Html.ActionLink(
        "Delete", "DeleteLog",
        new { id = log.Id })
</td>
```

**Answer:**

@Html.Action(

"\_CalculatePace.cshtml", log)

"\_CalculatePace")

<td>  
    @Html.DisplayFor(model => log.Time)

&lt;/td&gt;

<td>  
    @Html.Partial(

"\_CalculatePace", log)

&lt;/td&gt;

&lt;td&gt;

@Html.ActionLink(

        "Delete", "DeleteLog",  
        new { id = log.Id })

&lt;/td&gt;

**QUESTION 62**

You need to make the "Distance" header of the table bold in the Views/RunLog/GetLog.cshtml view.  
Which code segment should you use?

- A. table > tr { font-weight: bold; }
- B. table > th:last-child { font-weight: bold; }
- C. table + first-child { font-weight: bold; }
- D. table > tr > th:nth-child(2) { font-weight: bold; }

**Answer:****Explanation:**

Answer is "no one":

1. &lt;th&gt; is bold by default

[http://www.w3schools.com/tags/tag\\_th.asp](http://www.w3schools.com/tags/tag_th.asp)

The text in &lt;th&gt; elements are bold and centered by default.

The text in &lt;td&gt; elements are regular and left-aligned by default.

1. table &gt; tr selects no element, should be simply "table tr"

2. nth-child(2) is 2nd column, i.e. "Date"

**QUESTION 63**

Drag and Drop Question

You need to implement security according to the business requirements.

How should you modify RunLogController?

(To answer, drag the appropriate code segment to the correct location or 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.)

[Authorize(Roles = "Admin")]  
[Authorize]  
[Authorize(Users = "Admin")]  
[AllowAnonymous]  
[Authorize(Users = "\*")]

```
public class RunLogController : Controller  
{  
    public ActionResult GetLog()  
    ...  
  
    public ActionResult InsertLog()  
    ...  
  
    public ActionResult DeleteLog(int id)  
    ...  
  
    public ActionResult EditLog(int id)  
    ...  
}
```

**Answer:**

[Authorize(Roles = "Admin")]  
[Authorize(Users = "Admin")]  
[Authorize(Users = "\*")]

```
[Authorize]  
public class RunLogController : Controller  
{  
    [AllowAnonymous]  
    public ActionResult GetLog()  
    ...  
  
    public ActionResult InsertLog()  
    ...  
  
    [Authorize(Roles = "Admin")]  
    public ActionResult DeleteLog(int id)  
  
    [Authorize(Roles = "Admin")]  
    public ActionResult EditLog(int id)  
    ...  
}
```

**QUESTION 64**

You need to extend the edit functionality of RunLogController. Which code segment should you

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<http://www.passleader.com/70-486.html>

use?

- A. 

```
[HttpGet]
[ActionName("EditLog")]
[ValidateAntiForgeryToken]
public ActionResult EditLog(LogModel log)
{
    ...
}
```
- B. 

```
[HttpPost]
[ActionName("EditLog")]
public ActionResult EditLogValidated(LogModel log)
{
    ...
}
```
- C. 

```
[HttpPost]
[ActionName("EditLog")]
[ValidateAntiForgeryToken]
public ActionResult EditLogValidated(LogModel log)
{
    ...
}
```
- D. 

```
[HttpPost]
[ActionName("EditLog")]
[RequireHttps]
public ActionResult EditLogValidated(LogModel log)
{
    ...
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** C

#### QUESTION 65

Drag and Drop Question

You need to ensure that the application uses RunLogRoleProvider custom role provider.

How should you modify the web.config file?

(To answer, drag the appropriate line of code to the correct location or locations. Each line of code

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.)

"RunnerLog.Providers.RunLogRoleProvider"  
"System.Web.Providers.RunLogRoleProvider"  
"System.Web.Providers.DefaultRoleProvider"  
defaultProvider="DefaultProvider"  
defaultProvider="RLRoleProvider"

```
<roleManager enabled="true" >  
  <providers>  
    <add name="RLRoleProvider"  
        type="RunnerLog.Providers.RunLogRoleProvider"  
        Application="RunnerLog"/>  
  </providers>  
</roleManager>
```

**Answer:**

"System.Web.Providers.RunLogRoleProvider"  
"System.Web.Providers.DefaultRoleProvider"  
defaultProvider="DefaultProvider"

```
<roleManager defaultProvider="RLRoleProvider"  
  enabled="true" >  
  <providers>  
    <add name="RLRoleProvider"  
        type="RunnerLog.Providers.RunLogRoleProvider"  
        Application="RunnerLog"/>  
  </providers>  
</roleManager>
```

### QUESTION 6

Drag and Drop Question

You need to ensure that only valid parameters are passed to the EditLog action.

How should you build the route?

(To answer, drag the appropriate code segments to the correct location or 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.)

```
id = @"\d+"
url: "RunLog/EditLog/{id}",
action = "EditLog",
defaults: new
constraints: new
```

```
routes.MapRoute(
    name: "EditLog",
    . . .
    . . .
    controller = "RunLog",
    . . .
    . . .
),
{
    . . .
    . . .
}
);
);
```

**Answer:**

```

id = @"\d+"
url: "RunLog/EditLog/{id}",
action = "EditLog",
defaults: new
constraints: new
routes.MapRoute(
    name: "EditLog",
    url: "RunLog/EditLog/{id}",
    defaults: new
{
    controller = "RunLog",
    action = "EditLog",
},
constraints: new
{
    id = @"\d+"
}
);

```

### QUESTION 67

If the canvas element is supported by the client browser, the application must display "London 2012" in the footer as text formatted by JavaScript at the end of the \_Layout.cshtml file.

You need to modify the layout to ensure that "London 2012" is displayed as either formatted text or as plain text, depending on what the client browser supports.

Which code segment should you add?

- A. <canvas id="myFooter">  
@{Request.Browser.JavaApplets ? new HtmlString("London 2012") : null} </canvas>
- B. <canvas id="myFooter">London 2012</canvas>
- C. <canvas id="myCanvas">London 2012</canvas>
- D. <canvas id="myCanvas"><canvas>  
<p>London 2012</p>

**Answer:** C

### QUESTION 68

You need to add an action to RunLogController to validate the users' passwords. Which code segment should you use?

C A. `public ActionResult Login(string username, string password)
{
 byte[] buffer = Encoding.UTF8.GetBytes(password + username);
 byte[] hash = MD5.Create().ComputeHash(buffer);
 ComparePassword(username, hash);
 return ContextDependentView();
}`

C B. `[RequireHttps]
public ActionResult Login(string username, string password)
{
 byte[] buffer = Encoding.UTF8.GetBytes(password + username);
 byte[] hash = SHA1.Create().ComputeHash(buffer);
 ComparePassword(username, hash);
 return ContextDependentView();
}`

C C. `public ActionResult Login(string username, string password)
{
 byte[] buffer = Encoding.UTF8.GetBytes(password + username);
 byte[] hash = SHA1.Create().ComputeHash(buffer);
 ComparePassword(username, hash);
 return ContextDependentView();
}`

C D. `[RequireHttps]
public ActionResult Login(string username, string password)
{
 byte[] buffer = Encoding.UTF8.GetBytes(password + username);
 byte[] hash = MD5.Create().ComputeHash(buffer);
 ComparePassword(username, hash);
 return ContextDependentView();
}`

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** B

**QUESTION 69**

You need to implement the map of the runners' paths.

How should you build the video viewer?

(To answer, select the appropriate options in the answer area.)

## Work Area

```
<video width="320" height="240">
    <source src="map.mp4" type="video/mp4"
            source src="map.ogv" type="video/ogg"
            source src="map.webm" type="video/webm">
    <source src="map.mp4" type="video/mp4"
            source src="map.ogv" type="video/ogg"
            source src="map.webm" type="video/webm">
    <source src="map.mp4" type="video/mp4"
            source src="map.ogv" type="video/ogg"
            source src="map.webm" type="video/webm">
<embed width="320" height="240">
    embed
    object
    video
    canvas
    <object name="movie" value="map.swf" />
        object
        param
        option
        embed
    <video src="map.swf" />
        video
        param
        embed
        source
    </embed>
    embed
    object
    video
    canvas
</video>
```

**Answer:**

## Work Area

```
<video width="320" height="240">
    <source src="map.mp4" type="video/mp4">
    <source src="map.ogv" type="video/ogg">
    <source src="map.webm" type="video/webm">
    <source src="map.mp4" type="video/mp4">
    <source src="map.ogv" type="video/ogg">
    <source src="map.webm" type="video/webm">
    <source src="map.mp4" type="video/mp4">
    <source src="map.ogv" type="video/ogg">
    <source src="map.webm" type="video/webm">
    <embed width="320" height="240">
        object
        video
        canvas
        <param name="movie" value="map.swf" />
        <param name="src" value="map.swf" />
        <embed>
            source
    </embed>
    <object>
        video
        canvas
    </object>
</video>
```

**QUESTION 70**

You need to make all of the rows in the table bold in the Views/RunLog/GetLog.cshtml view. Which code segment should you use?

- A. table > th:last-child { font-weight: bold; }
- B. table + first-child { font-weight: bold; }
- C. table > tr > th:nth-child(2) { font-weight: bold; }
- D. table > tr { font-weight: bold; }

**Answer:** D

**QUESTION 71**

You need to display the "miles" unit description after the distance in the GetLog view. Which line of code should you use to replace line GL21? (Each correct answer presents a complete solution. Choose all that apply.)

- A. @log.Distance miles
- B. @Html.DisplayFor(model => log.Distance) miles
- C. @log.Distance.ToString() @Html.TextArea("miles")
- D. @Html.DisplayFor(model => log.Distance.ToString() + " miles")

**Answer:** AB

**Case Study 2 - Shopping Web Application (QUESTION 72 - QUESTION 86)**

For help on how to answer the questions, click the Instructions button on the question screen.

**Background**

You are developing an online shopping web application.

**Business Requirements**

- A user is not required to provide an email address. If a user enters an email address, it must be verified to be a valid email address.
- Information about the first product on the product page must fade out over time to encourage the user to continue browsing the catalog.
- Administrators must be able to edit information about existing customers. .
- Administrators also must be able to specify a default product on the product page.

**Technical Requirements****General:**

- The web store application is in a load-balanced web farm.
- The load balancer is not configured to use server affinity.
- The web store application is an ASP.NET MVC application written in Visual Studio 2012.

**Products:**

- The value of the productId property must always be greater than 0.
- The Products page for mobile devices must display to mobile users.
- The Products page for desktop devices must display to desktop users.

**Storage:**

- The data must be stored in a serialized XML data format.
- Serialized objects must be schema-independent.

**Exception handling:**

- Exceptions originating from IIS must display a page with support contact information.

- Some page links expire, and users who access these links encounter 404 errors.
- Exceptions must be logged by using the WriteLog method of the Utility class.

**Browser and device support:**

- The application must support image format conversions from .bmp to .jpeg for mobile devices.
- The application must support image format conversions from .bmp to .png for desktop devices.

**Application Structure****Customer.cs**

```
public class Customer
{
    const string EmailRegex = @"(^|([A-Za-z0-9_\.-])*@[A-Za-z0-9-]*\.[A-Za-z]*$)";
    const string EmailErrorMessage = "Please enter a valid email address";

    public string Email { get; set; }
    public string Name { get; set; }
}
```

**Product.cs**

```
public class Product
{
    public string ProductId { get; set; }
    public string Name { get; set; }
    public decimal Price { get; set; }
}
```

**web.config**

```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
    <appSettings>
        <add key="PreserveLoginUrl" value="true" />
        <add key="ClientValidationEnabled" value="true" />
        <add key="UnobtrusiveJavaScriptEnabled" value="true" />
    </appSettings>
    <system.web>
        <compilation debug="true" targetFramework="4.5" />
        <httpRuntime targetFramework="4.5" />
        <encoderType>System.Web.Security.AntiXss.AntiXssEncoder,
        System.Web, Version=4.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a" />
        <machineKey compatibilityMode="Framework45" />
        <sessionState mode="..." customProvider="DefaultSessionProvider">
            <providers>
                <add name="DefaultSessionProvider"
                    type="System.Web.Providers.DefaultSessionStateProvider,
                    System.Web.Providers, Version=1.0.0.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35
                " connectionStringName="DefaultConnection" applicationName="/" />
            </providers>
        </sessionState>
    </system.web>
    <system.webServer>
        <validation validateIntegratedModeConfiguration="false" />
        <modules runAllManagedModulesForAllRequests="true" />
    </system.webServer>
</configuration>
```

**QUESTION 72**

You need to ensure that new customers enter a valid email address.

Which code should you use?

(Each correct answer presents part of the solution. Choose all that apply.)

- A. 

```
[RegularExpression (emailPattern, ErrorMessage = EmailErrorMessage)]
[DataType(DataType.EmailAddress)]
public string Email { get; set; }
```
  - B. 

```
[RegularExpression(EmailRegex, ErrorMessage = EmailErrorMessage,
ErrorMessageResourceType = DataType.EmailAddress)]
[ComplexType]
public string Email { get; set; }
```
  - C. 

```
<%: Html.Raw(m => m.Email) %>
```
  - D. 

```
<%: Html.TextBoxFor(m => m.Email) %>
```
- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer:** AD

**QUESTION 73**

You need to implement the requirements for handling IIS errors. What should you do?

- C A. Update the **customErrors** attribute in the web.config file as follows.

```
<customErrorsmode="On" defaultRedirect="CustomErrorView">  
  
<errorstatusCode="404" redirect="Error/Error404"/>  
  
</customErrors>
```

- C B. Update the **customErrors** attribute in the app.config file as follows.

```
<customErrorsmode="Off" defaultRedirect="CustomErrorView">  
  
<errorstatusCode="404" redirect="Error/Error404"/>  
  
</customErrors>
```

- C C. Update the **customErrors** attribute in the app.config file as follows.

```
<customErrorsmode="On" defaultRedirect="CustomErrorView">  
  
<errorstatusCode="401" redirect="Error/Error401"/>  
  
</customErrors>
```

- C D. Update the **customErrors** attribute in the web.config file as follows.

```
<customErrorsmode="On" defaultRedirect="CustomErrorView">  
  
<errorstatusCode="403" redirect="Error/Error403"/>  
  
</customErrors>
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** A

**QUESTION 74**

You need to add a method to the ProductController class to meet the exception handling requirements for logging. Which code segment should you use?

- A. 

```
protected override void OnException(ExceptionContext filterContext)
{
    Utility.WriteLine(filterContext.Exception);

    if (filterContext.HttpContext.IsCustomErrorEnabled)
    {
        filterContext.ExceptionHandled = true;
        this.View("Error").ExecuteResult(this.ControllerContext);
    }
}
```
- B. 

```
protected override void OnException(ExceptionContext filterContext)
{
    Utility.WriteLine(filterContext.Exception);

    if (System.Diagnostics.Debugger.IsAttached)
    {
        filterContext.ExceptionHandled = true;
        this.View("Error").ExecuteResult(this.ControllerContext);
    }
}
```
- C. 

```
protected override void OnException(ExceptionContext filterContext)
{
    if (!System.Diagnostics.Debugger.IsLogging())
    {
        Utility.WriteLine(filterContext.Exception);
        filterContext.ExceptionHandled = true;
        this.View("Error").ExecuteResult(this.ControllerContext);
    }
}
```
- D. 

```
protected override void OnException(ExceptionContext filterContext)
{
    Utility.WriteLine(filterContext.Exception);

    if (filterContext.HttpContext.IsDebuggingEnabled)
    {
        filterContext.ExceptionHandled = true;
        this.View("Error").ExecuteResult(this.ControllerContext);
    }
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** A

**QUESTION 75**

You are designing a Windows Communication Foundation (WCF) service that uses the Product class.

You need to update the class to meet the storage requirement.

What should you do?

(Each correct answer presents part of the solution. Choose all that apply.)

- A. Mark the Product class with the DataContract attribute.
- B. Mark the public members of the Product class with the DataContractFormat attribute.
- C. Mark the Product class with the CollectionDataContract attribute.
- D. Mark the public members of the Product class with the DataMember attribute.

**Answer:** AD

**QUESTION 76**

An advertising campaign was recently launched. Some of the ads contain a link to products that no longer exist or have IDs that have changed.

You need to ensure that all product links display a product.

Which code segment should you use to configure the route?

- A. 

```
routes.MapRoute(
    "Product",
    "Product/{action}/{productName}",
    new { action = "Show", productName = DefaultProduct }
);
```
  - B. 

```
routes.MapRoute(
    "Product",
    "{productName}/{action}/{id}",
    new { action = "Show", productName = DefaultProduct }
);
```
  - C. 

```
routes.MapPageRoute(
    "Product",
    "{ProductName}/{action}/{id}",
    "~/product.aspx",
    false,
    new RouteValueDictionary { { "action", "Show" }, { "productName", DefaultProduct } });
});
```
  - D. 

```
routes.MapPageRoute(
    "Product",
    "Product/{action}/{productName}",
    "~/product.aspx",
    false,
    new RouteValueDictionary { { "action", "Show" }, { "productName", DefaultProduct } });
});
```
- A. Option A
  - B. Option B
  - C. Option C
  - D. Option D

**Answer:** A

**QUESTION 77**

You need to modify the application to meet the productId requirement.  
What should you do?

- A. Modify the RegisterGlobalFilters method of the Global.asax.es file as follows.  
Contract.Assume<ArgumentException>(productId != 0);
- B. Modify the GetDealPrice method of ProductController as follows.  
Contract.Requires<ArgumentException>(productId > 0);
- C. Modify the RegisterGlobalFilters method of the Global.asax.es file as follows.  
Contract.Requires<ArgumentException>(productId > 0);
- D. Modify the GetDealPrice method of ProductController as follows.  
Contract.Assume<ArgumentException>(productId > 0);

**Answer:** B

**QUESTION 78**

You need to implement the business requirements for managing customer data.  
What should you do?  
(Each correct answer presents part of the solution. Choose all that apply.)

- A. Add a class named CustomerController to the Controllers folder.  
Then add a method named Edit to the class.
- B. Create a new controller named Administration in the Controllers folder.  
Add an action named EditCustomer to the controller.
- C. Add a folder named Customer to the Views folder.  
Then create a view inside this folder named Edit.aspx.
- D. Create a new folder named EditCustomer to the Views folder.  
In the new folder, create a new file named Administration.aspx.

**Answer:** AC

**QUESTION 79**

When users attempt to retrieve a product from the product page, a run-time exception occurs if the product does not exist.

You need to route the exception to the CustomException.aspx page.  
Which method should you add to MvcApplication?

C A. 

```
public static void RegisterGlobalFilters(GlobalFilterCollection filters)
{
    filters.Add(new HandleErrorAttribute
    {
        ExceptionType = typeof(IndexOutOfRangeException),
        View = "CustomException",
    });
}
```

C B. 

```
public static void RegisterGlobalFilters(GlobalFilterCollection filters)
{
    filters.Add(new HandleErrorAttribute
    {
        ExceptionType = typeof(NullReferenceException),
        View = "CustomException",
    });
}
```

C C. 

```
public static void RegisterGlobalFilters(GlobalFilterCollection filters)
{
    filters.Add(new HandleErrorAttribute
    {
        ExceptionType = typeof(IndexOutOfRangeException),
        Handler = "CustomException",
    });
}
```

C D. 

```
public static void RegisterGlobalFilters(GlobalFilterCollection filters)
{
    filters.Add(new HandleErrorAttribute
    {
        ExceptionType = typeof(NullReferenceException),
        Handler = "CustomException",
    });
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** B

#### **QUESTION 80**

You updated the web.config file with the HTTP run-time value required to display an alternative version of the site.

You need to ensure that the correct page displays to the users.

Which code segment should you use to update the controller?

- A. if (Request.IsTabletDevice)
- B. if (Request.Browser.IsBrowser("Mobile"))
- C. if (Request.UserAgent["Tablet"])
- D. if (Request.Browser.IsMobileDevice)

**Answer:** D

**QUESTION 81**

The GetDealPrice method must be called by using Ajax.

You need to get the price of a product by using the GetDealPrice method of the ProductController. Which code segment should you use?

(Each correct answer presents a complete solution. Choose all that apply.)

- A. 

```
$ajax({
    type: "POST",
    dataType: "json",
    contentType: "application/json",
    url: "Product/GetDealPrice",
    data: {"productId": '' + productId + "'"},
    success: function (data) {
        $(".price").html(data.d);
    }
});
```
- B. 

```
$load({
    dataType: "json",
    contentType: "application/json",
    url: "Product/GetDealPrice/" + productId,
    success: function (data) {
        $(".price").html(data.d);
    }
});
```
- C. 

```
$ajax({
    type: "GET",
    dataType: "json",
    contentType: "application/json",
    url: "Product/GetDealPrice/" + productId,
    success: function (data) {
        $(".price").html(data.d);
    }
});
```
- D. 

```
$getJSON("Product/GetDealPrice/" + productId
    function (data) {
        $(".price").html(data.d);
    }
);
```

A. Option A

- B. Option B
- C. Option C
- D. Option D

**Answer:** CD

#### **QUESTION 82**

You need to implement client-side animations according to the business requirements.

Which line of code should you use?

(Each correct answer presents a complete solution. Choose all that apply.)

- A. \$("body h1:nth-child(1)").fadeIn(1000);
- B. \$("body h1:nth-child(1)").fadeOut(1000);
- C. \$("body h1:nth-child(1)").animate({ opacity: 0 });
- D. \$("body h1:nth-child(1)").animate({ opacity: 1 });

**Answer:** BC

#### **QUESTION 83**

You need to implement client-side animations according to the business requirements.

Which line of code should you use?

(Each correct answer presents a complete solution. Choose all that apply.)

- A. \$("h1: first").animate ({ opacity: 0 });
- B. \$("h1: first").fadeIn(1000);
- C. \$("h1: first").animate({ opacity: 1 });
- D. \$("h1: first").fadeOut(1000);

**Answer:** AD

#### **QUESTION 84**

You need to configure session storage in the web.config file to meet the technical requirements for scalability.

Which SessionState mode should you use?

(Each correct answer presents a complete solution. Choose all that apply.)

- A. StateServer
- B. InProc
- C. AutoDetect
- D. SqlServer

**Answer:** AD

#### **QUESTION 85**

You need to implement the mobile device support requirements. How should you build the ProcessRequest method? (To answer, select the appropriate options in the answer area.)

## Work Area

```
protected override void ProcessRequest(HttpContext httpContext)
{
    var response = httpContext.Response;
    var mobileFormat =  ;
    "image/png"
    "image/gif"
    "image/jpeg"
    "image/bmp"

    var normalFormat =  ;
    "image/png"
    "image/gif"
    "image/jpeg"
    "image/bmp"

    if (httpContext. .ContentType ==  )
        Response
        Request
        Application
        Handler
        "image/png"
        "image/gif"
        "image/jpeg"
        "image/bmp"

    {
        if (httpContext. .
            Response
            Request
            Application
            Handler
            Browser.IsMobileDevice
            Browser.IsBrowser("MobileDevice")
            Mobile == "android|IP(hone|od)"
            Mobile == "+mobile|tablet"
        )

        {
            WriteImage(response, mobileFormat);
        }
        else
        {
            WriteImage(response, normalFormat);
        }
    }
    else
    {
        base.ProcessRequest(httpContext);
    }
}
```

**Answer:**

## Work Area

```
protected override void ProcessRequest(HttpContext httpContext)
{
    var response = httpContext.Response;
    var mobileFormat =  ;
    "image/png"
    "image/gif"
    "image/jpeg"
    "image/bmp"

    var normalFormat =  ;
    "image/png"
    "image/gif"
    "image/jpeg"
    "image/bmp"

    if (httpContext. .ContentType ==  )
        Response
        Request
        Application
        Handler
        "image/png"
        "image/gif"
        "image/jpeg"
        "image/bmp"

    {
        if (httpContext. . )
            Response
            Request
            Application
            Handler
            Browser.IsMobileDevice
            Browser.IsBrowser("MobileDevice")
            Mobile == "android|IP(hone|od)"
            Mobile == "+mobile|tablet"
    }

    {
        WriteImage(response, mobileFormat);
    }
    else
    {
        WriteImage(response, normalFormat);
    }
}
else
{
    base.ProcessRequest(httpContext);
}
}
```

**QUESTION 86**

You need to update the routes to ensure that a product is always displayed on the product page. Which code segment should you use?

C A. routes.MapRoute(  
    "Product",  
    "{productName}/{action}/{id}",  
    new { action = "Show", productName = DefaultProduct }  
);

C B. routes.MapRoute(  
    "Product",  
    "Product/{action}/{productName}",  
    new { action = "Show", productName = DefaultProduct }  
);

C C. routes.MapPageRoute(  
    "Product",  
    "Product/{action}/{productName}",  
     "~/product.aspx",  
    false,  
    new RouteValueDictionary { { "action", "Show" }, { "productName", DefaultProduct }  
});

C D. routes.MapPageRoute(  
    "Product",  
    "{ProductName}/{action}/{id}",  
     "~/product.aspx",  
    false,  
    new RouteValueDictionary { { "action", "Show" }, { "productName", DefaultProduct }  
});

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** B

### Case Study 3 - Video Transcoding Service (QUESTION 87 - QUESTION 95)

For help on how to answer the questions, click the Instructions button on the question screen.

#### Background

You are developing a video transcoding service. This service is used by customers to upload video files, convert video to other formats, and view the converted files. This service is used by customers all over the world.

#### Business Requirements

- The user-facing portion of the application is an ASP.NET MVC application.
- It provides an interface for administrators to upload video and schedule transcoding.
- It also enables administrators and users to download the transcoded videos.
- When videos are uploaded, they are populated with metadata used to identify the video.
- The video metadata is gathered by only one system when the video upload is complete.
- Customers require support for Microsoft Internet Explorer 7 and later.
- The application contains a header that is visible on every page.
- If the logged-on user is an administrator, then the header will contain links to administrative functions. This information is read from a cookie that is set on the server.
- The administrative links must not be present if an error condition is



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present.

### **Technical Requirements**

#### **User Experience:**

- The front-end web application enables a user to view a list of videos.
- The main view of the application is the web page that displays the list of videos.
- HTML elements other than the list of videos are changed with every request requiring the page to reload.

#### **Compatibility:**

- Some customers use browsers that do not support the HTTP DELETE verb.
- These browsers send a POST request with an HTTP header of X-Delete when the intended action is to delete.

#### **Transcoding:**

- The video transcoding occurs on a set of Windows Azure worker roles.
- The transcoding is performed by a third-party command line tool named transcode.exe. When the tool is installed, an Environment variable named transcode contains the path to the utility.
- A variable named license contains the license key. The license for the transcoding utility requires that it be unregistered when it is not in use.
- The transcoding utility requires a significant amount of resources. A maximum of 10 instances of the utility can be running at any one time. If an instance of the role cannot process an additional video, it must not prevent any other roles from processing that video.
- The utility logs errors to a Logs directory under the utilities path.
- A local Azure directory resource named perf is used to capture performance data.

#### **Development:**

- Developers must use Microsoft Remote Desktop Protocol (RDP) to view errors generated by the transcode.exe utility.
- An x509 certificate has been created and distributed to the developers for this purpose.
- Developers must be able to use only RDP and not any other administrative functions.

### **Application Structure**

#### **TranscodeWorkerRole.cs**

```
public class TranscodeWorkerRole : RoleEntryPoint
{
    public override void Run()
    {
        while (true)
        {
            var nextWorkItem = GetWorkItem();
            TranscodeService.Start(new [] { nextWorkItem } );
        }
    }

    private string GetWorkItem()
    {
        ...
    }
}
```

**ThumbnailGenerator.cs**

```
public class TranscodeWorkerRole : RoleEntryPoint
{
    public override void Run()
    {
        while (true)
        {
            var nextWorkItem = GetWorkItem();
            TranscodeService.Start(new [] { nextWorkItem } );
        }
    }

    private string GetWorkItem()
    {
        ...
    }
}
```

**VideoController.cs**

```
[Authorize]
public class VideoController : Controller
{
    public FileResult DownloadVideo(string videoId)
    {
        var stream = GetVideoStream(videoId);
        return File(stream, "video/mpeg");
    }

    [HttpPost]
    public ActionResult UploadVideo(string videoId)
    {
        return View();
    }

    [HttpDelete]
    public ActionResult DeleteVideo(string videoId)
    {
        return View();
    }

    public ActionResult VideoMetadata(string videoId)
    {
        var metadata = HttpRuntime.Cache[videoId];
        if (metadata == null)
        {
            metadata = LoadMetadata(videoId);
            HttpRuntime.Cache[videoId] = metadata;
        }
        return View(metadata);
    }

    public ActionResult ListVideos()
    {
        return View();
    }
}
```

**DeleteHandler.cs**

```
public class DeleteHandler : DelegatingHandler
{
    protected override Task<HttpResponseMessage> SendAsync
    (HttpRequestMessage request,
    CancellationToken cancellationToken)
    {
        ...
    }
}

VideoAdminAttributes.cs
public class VideoAdminAttribute : Attribute
{
    private IEnumerable<string> Admins()
    {
        ...
    }
}
```

**AdminVerifierFactory.cs**

```
public class AdminVerifierFactory : DefaultControllerFactory
{
    public override IController CreateController(RequestContext requestContext,
    string controllerName)
    {
        return base.CreateController(requestContext, controllerName) as Controller;
    }
}
```

**ImageConverter.cs**

```
public class ImageConverter : MvcHandler
{
    private void WriteImage(HttpResponse response, string format)
    {
        ...
    }
}
```

**QUESTION 87**

You need to ensure that developers can connect to a Windows Azure role by using RDP.  
What should you do?

- A. Export a certificate without a private key.  
Upload the .cer file to the Management Certificates section on the Azure Management Portal.
- B. Export a certificate with a private key.  
Upload the .pfx file to the Management Certificates section on the Azure Management Portal.
- C. Export a certificate without a private key.  
Upload the .cer file to the Certificates section under the TranscodeWorkerRole hosted service on the Azure Management Portal.
- D. Export a certificate with a private key.  
Upload the .pfx file to the Certificates section under the TranscodeWorkerRole hosted service on

the Azure Management Portal.

**Answer:** D

**QUESTION 88**

Customers download videos by using HTTP clients that support various content encodings. You need to configure caching on the DownloadVideo action to maximize performance. Which attribute should you add?

- A. `[OutputCache(Location = OutputCacheLocation.Downstream, VaryByParam = "videoId", VaryByCustom = "browser")]`
  - B. `[OutputCache(Location = OutputCacheLocation.Any, VaryByCustom = "compressionMethod", VaryByContentEncoding = "all")]`
  - C. `[OutputCache(Location = OutputCacheLocation.ServerAndClient, VaryByHeader = "Cache-Control")]`
  - D. `[OutputCache(Location = OutputCacheLocation.Downstream, VaryByContentEncoding = "gzip;q=1.0, compress; q=0.5, *;q=0")]`
  - E. `[OutputCache(Location = OutputCacheLocation.Any, VaryByParam = "videoId", VaryByContentEncoding = "gzip;q=1.0, compress; q=0.5, *;q=0")]`
- A. Option A  
B. Option B  
C. Option C  
D. Option D  
E. Option E

**Answer:** E

**QUESTION 89**

You need to ensure that all the MVC controllers are secure.

Which code segment should you use as the body for the CreateController method in AdminVerifierFactory.es?

C A. varcontroller = base.CreateController(requestContext, controllerName) asController;  
varattributes = controller.GetType().Attributes.ToString();  
if(!attributes.Contains("VideoAdminAttribute"))  
 thrownewException("Not an Administrator");  
returncontroller;

C B. if(requestContext.HttpContext.Items["Administrator"] == null)  
 thrownewException("Not an Administrator");  
returnbase.CreateController(requestContext, controllerName) asController;

C C. varcontroller = base.CreateController(requestContext, controllerName) asController;  
varhasFilter = controller.GetType().CustomAttributes.Any  
(x => x.AttributeType.Name == "VideoAdminAttribute");  
if(hasFilter == null)  
 thrownewException("Not an Administrator");  
returncontroller;

C D. if(requestContext.RouteData.Values["Administrator"] == null)  
 thrownewException("Not an Administrator");  
returnbase.CreateController(requestContext, controllerName) asController;

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** C

### **QUESTION 90**

You are creating a new authentication system that uses an HTTP header value. The existing authentication system must continue to operate normally.

You need to implement the custom authentication.

What should you do? (Each correct answer presents a complete solution. Choose all that apply.)

- A. Create a class derived from ActionResult and check for a valid HTTP header value in the ExecuteResult method.  
Change all actions to return this new class.
- B. Create an HttpHandler to check for a valid HTTP header value in the ProcessRequest method.
- C. Create an HttpModule and check for a valid HTTP header value in the AuthenticateRequest event.
- D. Create a class derived from AuthorizeAttribute and check for a valid HTTP header value in the AuthorizeCore method.  
Change usages of the existing AuthorizeAttribute to use the new class.

**Answer:** CD

### **QUESTION 91**

Hotspot Question

The designer for the website gave you the following image as the design for the page.

Your account Log off

**Home About Contact**

**Let us help you**

**Home is closer than you think**

The normal color for the tab is #2da4c2, and the color when the mouse is over the tab is #ffd800. The HTML that implements the navigation tab is as follows.

```
<ul id="nav">
    <li><a href="/">Home</a></li>
    <li><a href="/">About</a></li>
    <li><a href="/">Contact</a></li>
</ul>
```

You need to implement the design.

What should you do? (To answer, select the appropriate options in the answer area.)

## Work Area

```
ul#nav {  
    font-size: 1.3em;  
    font-weight: 600;  
}
```

```
ul#nav li {
```

```
    float: left;  
    background-color: #ffd800;  
    background-color: #2da4c2  
    text-decoration: none;
```

```
    text-decoration: none;  
    list-style: none;  
    border-radius: 15px;  
    word-wrap: break-word;
```

```
    text-align: center;
```

```
}
```

```
ul#nav li a {
```

```
    background-clip: border-box;  
    background-color: #2da4c2  
    border-radius: 15px;  
    word-wrap: break-word;
```

```
    color: #FFF;
```

```
    background-clip: padding-box;  
    text-decoration: none;  
    background-color: #ffd800;  
    float: left;
```

```
    border-radius: 12px 12px 0 0;  
    padding: 0 12px 0 12px;  
    margin: 0 4px 0 4px;
```

```
}
```

```
ul#nav li a:hover {  
    color: #333;
```

```
    float: left;  
    background-color: #ffd800;  
    background-color: #2da4c2  
    list-style: none;
```

```
    cursor: pointer;  
    background-clip: border-box;  
    text-decoration: none;  
    background-origin: border-box;
```

```
}
```

**Answer:****Work Area**

```
ul#nav {  
    font-size: 1.3em;  
    font-weight: 600;  
}  
  
ul#nav li {  
    float: left;  
    background-color: #ffd800;  
    background-color: #2da4c2  
    text-decoration: none;  
  
    text-decoration: none;  
    list-style: none;  
    border-radius: 15px;  
    word-wrap: break-word;  
  
    text-align: center;  
}  
  
ul#nav li a {  
    background-clip: border-box;  
    background-color: #2da4c2  
    border-radius: 15px;  
    word-wrap: break-word;  
  
    color: #FFF;  
  
    background-clip: padding-box;  
    text-decoration: none;  
    background-color: #ffd800;  
    float: left;  
  
    border-radius: 12px 12px 0 0;  
    padding: 0 12px 0 12px;  
    margin: 0 4px 0 4px;  
}  
  
ul#nav li a:hover {  
    color: #333;  
  
    float: left;  
    background-color: #ffd800;  
    background-color: #2da4c2  
    list-style: none;  
  
    cursor: pointer;  
    background-clip: border-box;  
    text-decoration: none;  
    background-origin: border-box;  
}  
}
```

**QUESTION 92**

You need to maximize performance of video delivery.

Which code segment should you use as the body of the GetVideoStream function in the VideoController class?

- A. 

```
MemoryStream stream = new MemoryStream();

new GZipStream(System.IO.File.OpenRead(videoId), CompressionMode.Compress).CopyTo
(stream);

return stream;
```
  - B. 

```
if (Request.ContentEncoding.BodyName == "application/x-gzip")
{
    return new GZipStream(System.IO.File.OpenRead(videoId), CompressionMode.Compress);
}

return System.IO.File.OpenRead(videoId);
```
  - C. 

```
return new GZipStream(System.IO.File.OpenRead(videoId), CompressionMode.Compress);
```
  - D. 

```
if (Request.Headers["Accept-Encoding"].Contains("gzip"))
{
    return new GZipStream(System.IO.File.OpenRead(videoId), CompressionMode.Compress);
}

return System.IO.File.OpenRead(videoId);
```
- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer:** D

**QUESTION 93**

The transcode.exe utility activates its license online when it is installed.

You need to ensure that the registration of the transcode utility is handled as specified in its license. Which method should you add to the TranscodeWorkerRole class?

C A. public override void OnStop()  
{  
 RoleEnvironmentStopping += (sender, args) =>  
 {  
 var task = Process.Start("transcode.exe", "unregister");  
 if (task.HasExited)  
 base.OnStop();  
 };  
}

C B. public override void OnStop()  
{  
 RoleEnvironmentStopping += (sender, args) =>  
 {  
 Process.Start("transcode.exe", "unregister").WaitForExit();  
 base.OnStop();  
 };  
}

C C. public override void OnStop()  
{  
 Process.Start("transcode.exe", "unregister");  
 base.OnStop();  
}

C D. public override void OnStop()  
{  
 Process.Start("transcode.exe", "unregister").WaitForExit();  
 base.OnStop();  
}

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** D

#### **QUESTION 94**

Drag and Drop Question

You need to ensure that the transcode.exe utility is installed before the worker role starts.

How should you implement the startup task?

(To answer, drag the appropriate values to the correct element or attribute. Each value 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.)

Variable  
Environment  
foreground  
background  
simple

```
<Startup>
  <Task commandLine="msiexec transcode.msi" taskType=" " >
    < />
    < />
    < />
  </Task>
</Startup>
```

**Answer:**

Variable  
Environment  
foreground  
background

```
<Startup>
  <Task commandLine="msiexec transcode.msi" taskType=" simple " >
    < Environment >
      < Variable name="license" value="825534" >< /Variable >
    </ Environment >
  </Task>
</Startup>
```

### QUESTION 95

You need to ensure that all customers can delete videos regardless of their browser capability. Which code segment should you use as the body of the SendAsync method in the DeleteHandler class?

C A. var response = base.SendAsync(request, cancellationToken);  
if(request.Headers.Contains("X-Delete"))  
{  
    response.Result.StatusCode = HttpStatusCode.NotImplemented;  
}  
return response;

C B. if(request.Headers.Contains("X-Delete"))  
{  
    request.Method = new HttpMethod("DELETE");  
}  
returnbase.SendAsync(request, cancellationToken);

C C. var response = base.SendAsync(request, cancellationToken);  
if(response.Result.Headers.Contains("X-Delete"))  
{  
    request.Method = new HttpMethod("DELETE");  
}  
return response;

C D. if(request.Method == HttpMethod.Delete)  
{  
    request.Headers.Add("X-Delete", "true");  
}  
returnbase.SendAsync(request, cancellationToken);

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** B

#### Case Study 4 - Cycling Club (QUESTION 96 - QUESTION 102)

**Background**

You are making use of Visual Studio 2012 to create an ASP.NET MVC application to log training information for a cycling club.

**Business Requirements**

The application needs to host data regarding training dates, distances, and duration. Application users must be able to view and modify data. The application itself should be highly accessible. The application should also allow for times to be presented in the user's native time.

**Technical Requirements**

A public class, named CyclistLog.DataAccess.CyclistLogDb, deals with database access. HTTP GET should be used for all data retrieval. HTTP POST should be used for all data updates.

A master layout file, named Wiews\Shared\\_Layout.cshtml, is used by all pages in the application. The application makes use of the \Models\LogModel.cs model.

The Razor view engine is used for all views in the application. The Wiews\CyclingLog includes the \_CalculateSpeed.cshtml, EditLog.cshtml, GetLog.cshtml, and InsertLog.cshtml views. The application, however, includes a Wiewsli-lomelindex.cshtml view.

The controller included in the application is \Controllers\CyclingLogController.cs. You have also included a timer.png image in the \Images folder.

When a user examines a cycling log, the users trail map is accessible. This map is configured as a video and an Adobe Flash application. The browser should use H264, Ogg, or WebM formats (in this order) to present the video natively. The Flash application should be used in the event that the video cannot be presented.

**Security**

The application should make use of forms authentication, and requires user logon for entering information. The editing or deleting of cyclist information requires a user to be a member of the Admin role. Users must be members of the Admin role to. You need to the application should be defended against cross-site request forgery. The SHA1 algorithm should be used to hash passwords.

A custom role provider must be included in CyclistLog.Providers.CyclingLogRoleProvider.cs.

**QUESTION 96**

You have received instructions to make sure that the Views\CyclingLog\\_CalculateSpeed.cshtml partial view, from the Views\cyclelog \GetLog.cshtml, is configured to show the cyclist's average speed per kilometer.

You need to write the necessary code to apply the view.

Which of the following is a method that should be included in your code?

- A. The DisplayFor method.
- B. The ExhibitFor method.
- C. The PresentFor method.
- D. The ConcealFor method.

**Answer:** A

**QUESTION 97**

You have been instructed to insert a line of code into your existing code that allows for the "Distance" header of the table to be displayed in bold in the Views/CyclingLog/GetLog.cshtml view. Which of the following should be included in the line of code?

- A. You should consider including the :first-child pseudo-class.
- B. You should consider including the :last-child pseudo-class.
- C. You should consider including the :nth-child pseudo-class.
- D. You should consider including the :nth-last-child(n) pseudo-class.

**Answer:** C

### QUESTION 98

You have been asked to make sure that the edit action of RunLogController is extended.

You start by writing the following lines of code:

```
[HttpPost] [ActionName  
("Editlog")]
```

You are required to make use of a specific attribute next.

Which of the following is the attribute in question?

- A. The [ValueProviderCollection] attribute.
- B. The [ValidateInput] attribute.
- C. The [ValidateAntiForgeryToken] attribute.
- D. The [ValidatableObjectAdapter] attribute.

**Answer:** C

### QUESTION 99

You have been tasked with making sure that the application is configured to make use of a custom role provider, named CyclingLogRoleProvider.

Which of the following actions should you take?

- A. You should consider making changes to the machine.config file.
- B. You should consider making changes to the app.config file.
- C. You should consider making changes to the web.config file.
- D. You should consider making changes to the client.config file.

**Answer:** C

### QUESTION 100

You are preparing to write code that prevents invalid parameters from being distributed to the EditLog action. To achieve this, you are required to build the route in a certain way.

Whish of the following is a method that should be included in the code?

- A. You should consider including the MapRoute method
- B. You should consider including the IgnoreRoute method
- C. You should consider including the GetVirtualPathForArea method
- D. You should consider including the ReRoute method

**Answer:** A

### QUESTION 101

You want to make sure that the application exhibits the text, "Cycling 2013". The text should be exhibited in the footer in the last part of the \_Layout.cshtml file, and should be formatted by JavaScript.

You want to make sure that, based on browser support, the text is exhibited as plain text or formatted text.

Which of the following actions should you take?

- A. You should consider changing the InsertLog.cshtml view.
- B. You should consider changing the EditLog.cshtml view.
- C. You should consider changing the layout.

- D. You should consider changing the \_CalculateSpeed.cshtml view.

**Answer:** C

### QUESTION 102

You have been instructed to meet the business requirements with regards to security.

You are required to make changes to the CyclingLogController.

Which of the following actions should you take?

- A. You should consider adding code to assign users the Administrator role.
- B. You should consider adding code to assign users the Advanced Operator role.
- C. You should consider adding code to assign users the Author role.
- D. You should consider adding code to assign users the Report Security Administrator role.

**Answer:** A

## Case Study 5 - Online Retail Web Application (QUESTION 103 - QUESTION 111)

### Background

You are making use of Visual Studio 2012 to create an ASP.NET MVC online retail web application.

### Business Prerequisites

The entering of user e-mail addresses should not be compulsory. In the event that a user does provide an e-mail address, the validity of the address should be authenticated. To motivate users to keep on browsing the item list, you have to make sure that the first item on the item page gradually disappears.

Furthermore, you have to make sure that administrators have the ability to manage current client data, and also identify a default item on the item page.

### Technical Prerequisites

#### General:

A load-balanced web farm, where the load balancer has not been configured to employ server affinity, hosts the application

With regards to items, you are informed that the itemId property value should not be less than or equal to 0. Furthermore, the Items page for mobile devices should be presented to mobile users and the Items page for desktop computers should be presented to desktop users

#### Storage:

You are informed that information should be saved in a serialized XML data format, and that serialized objects should be independent of the schema.

#### Exception handling:

A page showing support contact details should be presented for IIS exceptions. 404 errors resulting from expired links cause exceptions to be thrown. Some page links expire, and users who access these links encounter 404 errors. The WriteLog method of the Utility class should be used to log these exceptions.

#### Browser and device support:

The application should allow for .bmp format images to be changed to .jpeg format images for mobile devices, and to .png format images for desktop computers.

### QUESTION 103

You have been tasked with creating a Communication Foundation (WCF) service that makes use of the Item class.

You are informed that the Item class should be updated in such a way that it satisfies storage prerequisites.

You start by marking the Item class with the DataContract attribute.

Which of the following actions should you take NEXT?

- A. You should consider making sure that the public members of the Item class is marked with the EnumMember attribute.
- B. You should consider making sure that the private members of the Item class is marked with the DataMember attribute.
- C. You should consider making sure that the private members of the Item class is marked with the EnumMember attribute.
- D. You should consider making sure that the public members of the Item class is marked with the DataMember attribute.

**Answer:** D

**QUESTION 104**

You have received instructions to make sure that IIS errors are handled in accordance with the prerequisites.

Which of the following actions should you take?

- A. You should consider bringing the customErrors attribute in the web.config file up to date.
- B. You should consider bringing the customErrors attribute in the machine.config file up to date.
- C. You should consider bringing the customErrors attribute in the app.config file up to date.
- D. You should consider bringing the customErrors attribute in the client.config file up to date.

**Answer:** A

**QUESTION 105**

You have been instructed to write code that creates a method for the ItemController class.

The method must satisfy the prerequisites to handle exceptions related to logging.

Which of the following actions should you take?

- A. You should consider creating an OnResultExecuted method.
- B. You should consider creating an OnAuthorization method.
- C. You should consider creating an OnException method.
- D. You should consider creating an OnActionExecuting method.

**Answer:** C

**QUESTION 106**

You have received instructions to make sure that the prerequisites with regards to the ItemId are suitably met.

Which of the following actions should you take?

- A. You should consider changing a method of ItemController.
- B. You should consider changing a method of ItemProperty.
- C. You should consider changing a method of ItemObject.
- D. You should consider changing a method of ItemAttribute.

**Answer:** A

**QUESTION 107**

You are preparing to make sure that the prerequisites for client information management are suitably met.

You start by configuring the Controllers folder to include a class, named ClientController.

Which of the following actions should you take NEXT?

- A. You should consider configuring the ClientController to include the Edit method.
- B. You should consider configuring the ClientController to include the Run method.
- C. You should consider configuring the ClientController to include the Client method.
- D. You should consider configuring the ClientController to include the Reward method.

**Answer:** A

**QUESTION 108**

You are informed that a run-time exception takes place every time a user tries to access a non-existent item from the item page.

You are instructed to write code that creates a method that routes the exception to the CustomException.aspx page.

Which of the following is the method you should create?

- A. The RegisterGlobalFilters method.
- B. The RegisterLocalFilters method.
- C. The JoinGlobalFilters method.
- D. The JoinLocalFilters method.

**Answer:** A

**QUESTION 109**

After updating the web.config file to display an alternative version of the site by configuring the necessary HTTP run-time value, you are instructed to make sure that users are presented with appropriate page.

Which of the following actions should you take?

- A. You should consider inserting and when statement.
- B. You should consider inserting and then statement.
- C. You should consider inserting and why statement.
- D. You should consider inserting and if statement.

**Answer:** D

**QUESTION 110**

You have received instructions to apply client-side animations.

You want to make sure that the business prerequisites are suitably met.

Which of the following should be included in your code?

- A. You should consider including the :first-child pseudo-class.
- B. You should consider including the :nth-child pseudo-class.
- C. You should consider including the :nth-last-child(n) pseudo-class.
- D. You should consider including the :last-child pseudo-class.

**Answer:** B

**QUESTION 111**

You have been instructed to make sure that the technical prerequisites with regards to scalability are adequately met. To achieve this, it is necessary to access the web.config file to configure session storage.

You want to make use of a SessionState mode that stores session state in a process that is

separate from the ASP.NET worker process or IIS application pool.  
Which of the following should you make use of?

- A. You should consider making use of the In-process mode.
- B. You should consider making use of the Off mode.
- C. You should consider making use of the SQLServer mode.
- D. You should consider making use of the StateServer mode.
- E. You should consider making use of the Custom mode.

**Answer:** D

## Case Study 6 - Digital Data Conversion (QUESTION 112 - QUESTION 118)

### Background

You are developing a service that allows for the direct digital-to-digital data conversion of one encoding to another. Users currently employs the service for the uploading of audiovisual media files for conversion to different formats, as well as for the viewing of the converted files.

### Business Requirements

The client-side section of the application has been created as an ASP.NET MVC application using Visual Studio 2012. The client-side of the application allows for the uploading of audiovisual media and the planning of transcoding by administrators. Furthermore, administrators and users are allowed to download the audiovisual medias that have gone through the direct digital-to-digital data conversion process.

Metadata is attached to uploaded audiovisual medias for identification purposes. As soon as the audiovisual media upload is complete, this metadata is collected by a single system.

User computers must have Microsoft Internet Explorer 7 installed, as a minimum.

The application excludes a header that can be viewed on all pages. The header has been configured to display links to administrative functions for users logged in as administrators. A cookie, which is configured on the server, supplies this data. In the event of an error condition existing, the administrative links should not be displayed.

### Technical Requirements

#### User Experience:

Users are able to scrutinize a list of audiovisual medias via the front-end web application. The presented page is configured as the application's principal view. Every request causes the HTML elements, other than the list of audiovisual medias, to change. This, in turn, causes the page to reload.

#### Compatibility:

Some user browsers, which do not support the HTTP DELETE verb, sends a POST request with an HTTP header of X-Delete when the expected operation is to delete.

#### Transcoding:

A set of Windows Azure worker roles has been configured for transcoding purposes. A third-party command line tool must be installed for transcoding. The path to the utility is hosted by an Environment variable, subsequent to tool installation. The license key is included in a variable, named license. When the utility is not in use, it has to be unregistered. Furthermore, a substantial quantity of resources is consumed by the utility.

At any given time, the utility can have ten instances of the utility running, at most. An instance of the role must allow other roles to process the additional audiovisual media that it cannot.

Errors are logged to a Logs directory under the utilities path by the utility.

Performance information is collected by a local Azure directory resource, named perf.

#### Development:

Errors generated by the utility must be examined by developers via Microsoft Remote Desktop Protocol (RDP). This functionality has been provided by the creation of an x509 certificate that has been distributed to the developers. Only RDP must be used by developers for this function.

**QUESTION 112**

You have been instructed to make sure that developers have the ability to access a Windows Azure role via RDP.

You start by exporting a certificate with a private key.

Which of the following actions should you take NEXT?

- A. You should consider uploading the .cer file to the Certificates section of the TranscodeWorkerRole hosted service on the Azure Management Portal.
- B. You should consider downloading the .cer file from the Certificates section of the TranscodeWorkerRole hosted service on the Azure Management Portal.
- C. You should consider downloading the .pfx file from the Certificates section of the TranscodeWorkerRole hosted service on the Azure Management Portal.
- D. You should consider uploading the .pfx file to the Certificates section of the TranscodeWorkerRole hosted service on the Azure Management Portal.

**Answer:** D

**QUESTION 113**

You have been instructed to maximize performance for users who download audiovisual media via HTTP clients that support different content encodings by configuring caching on the DownloadAudiovisualMedia action.

You want to write code to include the necessary attribute.

Which of the following is a property that should be included in your code?

- A. The VaryByControl property.
- B. The VaryByCustom property.
- C. The VaryByHeader property.
- D. The VaryByParam property.
- E. The VaryByContentEncoding property.

**Answer:** E

**QUESTION 114**

You have received instructions to create a new authentication strategy. The new strategy must make use of an HTTP header value.

Furthermore, you are informed that the operation of the current authentication strategy should not be disrupted.

After creating the new strategy, you are required to apply it.

Which of the following actions should you take? (Choose all that apply.)

- A. You should consider creating a class based on the AuthorizeAttribute class.
- B. You should consider creating a class based on the AuthorizationContext class.
- C. You should consider checking for a valid HTTP header value in the AuthorizeCore method.
- D. You should consider checking for a valid HTTP header value in the OnAuthorization method.
- E. You should consider checking for a valid HTTP header value in the OnCacheAuthorization method.

**Answer:** AC

**QUESTION 115**

You have received instructions to improve the execution of the audiovisual media transfer.

You are preparing to write the necessary code.

Which of the following actions should you take?

- A. You should consider making use of the DeflateStream Class.
- B. You should consider making use of the ZipArchive Class.
- C. You should consider making use of the ZipFile Class.
- D. You should consider making use of the GZipStream Class.

**Answer:** D

**QUESTION 116**

You have received instructions to make sure that the utility registration occurs in accordance with its license. To achieve this, you are preparing to write code that includes a method in the TranscodeWorkerRole class.

Which of the following is a process method that should be included in your code?

- A. The OnExited method.
- B. The WaitForExit method.
- C. The WaitForInputIdle method.
- D. The Kill method.

**Answer:** B

**QUESTION 117**

You have been tasked with making sure that, prior to the worker role launching, the utility is implemented.

Which of the following actions should you take?

- A. You should consider configuring a startup task.
- B. You should consider configuring a task schedule.
- C. You should consider manually implementing the utility every time you log on.
- D. You should consider configuring a logon script.

**Answer:** A

**QUESTION 118**

You are instructed to make sure that the deletion of audiovisual media is not dependent on browser ability.

Which of the following actions should you take?

- A. You should consider writing code to create a SendSync method.
- B. You should consider writing code to create a SendAsync method.
- C. You should consider writing code to create a RetrieveAsync method.
- D. You should consider writing code to create a RetrieveSync method.

**Answer:** B

**QUESTION 119**

You are developing an application. One requirement is that part of your data access layer needs to be available to a third party, that wants to get this information from a REST URL in XML.

Your company does not have experience with web services, but you have several websites running ASP.NET MVC 4. How could you design and provide these new services? (Choose all that apply.)

- A. Task an individual on staff to learn WCF, and have this individual develop and deploy these new services using WCF.

- B. Use the Web API to create REST services using ApiController in which the serialization type is defined by the Accepts property of the browser.
- C. Build a basic ASP.NET MVC 4 project in which the view simply passes through the information provided by the controller, and the controller manages the code for serializing the response.
- D. Create an ASP.NET ASMX services file to get, serialize, and return the data.

**Answer:** BC

**QUESTION 120**

How could you traditionally consume an ASMX web service from your application? (Choose all that apply.)

- A. Generate a proxy by selecting Add Reference In Visual Studio.
- B. Create an HttpService and connect using Get(URL).
- C. Generate a proxy by selecting Add A Service Reference in Visual Studio.
- D. Create a WCF proxy class.

**Answer:** BC

**QUESTION 121**

You are designing an ASP.NET MVC 4 application that uses an Oracle database for persistence. What session configuration choices enable you to deploy your application on a web farm? (Choose all that apply.)

- A. InProc
- B. SQLServer
- C. StateServer
- D. Custom session provider

**Answer:** CD

**QUESTION 122**

You are creating an ASP.NET MVC web application. The application must accept user input for a ProductName field. To reduce delays due to invalid entries making round trips between the client and server, user input should be validated on the client before being submitted to the server. Which code segment should you choose?

- A. <div class="editor-label">  
    @Html.LabelFor(model => model.ProductName)  
  </div>  
  <div class="editor-field">  
    @Html.EditorFor(model => model.ProductName)  
  </div>
- B. <div class="editor-label">  
    @Html.LabelFor(model => model.ProductName)  
  </div>  
  <div class="editor-field">  
    @Html.ValidationMessageFor (model => model.ProductName)  
  </div>
- C. <div class="editor-field">  
    @Html.EditorFor(model => model.ProductName)  
    @Html.ValidationMessageFor(model => model.ProductName)  
  </div>

D. <div class="editor-label">  
    @Html.LabelFor(model => model.ProductName)  
</div>

**Answer:** C

**QUESTION 123**

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