

- **Vendor: Microsoft**
- **Exam Code: 70-486**
- **Exam Name: Developing ASP.NET MVC (5.1) Web Applications**
- **Question 61 – Question 90**

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**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 drag-and-drop question interface. On the left, there is a list of code segments to be dragged. On the right, there is a target area with a partial view template that has two empty boxes for code insertion.

**Code Segments (Left):**

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

**Target Area (Right):**

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

**Answer:**

#### 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: D**

#### QUESTION 63

Drag and Drop Question

You need to implement security according to the business requirements. You have the following code:

```

Target 1
public class RunLogController : Controller
{
    Target 2
    public ActionResult GetLog()
    ...
    public ActionResult InsertLog()
    ...
    Target 3
    public ActionResult DeleteLog(int id)
    Target 4
    public ActionResult EditLog(int id)
    ...
}
    
```

Which code segments should you include in Target 1, Target 2, Target 3 and Target 4 to modify RunLogController? To answer, drag the appropriate code segment to the correct targets. 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.

**Code Segments**

[Authorize(Roles = "Admin")]

[Authorize]

[Authorize(Users = "Admin")]

[AllowAnonymous]

[Authorize(Users = "")]

**Answer area**

Target 1: [Code Segment]

Target 2: [Code Segment]

Target 3: [Code Segment]

Target 4: [Code Segment]

**Answer:**

**Code Segments**

[Authorize(Roles = "Admin")]

[Authorize]

[Authorize(Users = "Admin")]

[AllowAnonymous]

[Authorize(Users = "")]

**Answer area**

Target 1: [Authorize]

Target 2: [AllowAnonymous]

Target 3: [Authorize(Roles = "Admin")]

Target 4: [Authorize(Roles = "Admin")]

**QUESTION 64**

You need to extend the edit functionality of RunLogController. Which code segment should you 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"	<roleManager
"System.Web.Providers.RunLogRoleProvider"	enabled="true" >
"System.Web.Providers.DefaultRoleProvider"	<providers>
defaultProvider="DefaultProvider"	<add name="RLRoleProvider"
defaultProvider="RLRoleProvider"	type=
	Application="RunnerLog"/>
	</providers>
	</roleManager>

**Answer:**

"RunnerLog.Providers.RunLogRoleProvider"	<roleManager defaultProvider="RLRoleProvider"
"System.Web.Providers.RunLogRoleProvider"	enabled="true" >
"System.Web.Providers.DefaultRoleProvider"	<providers>
defaultProvider="DefaultProvider"	<add name="RLRoleProvider"
defaultProvider="RLRoleProvider"	type= "RunnerLog.Providers.RunLogRoleProvider"
	Application="RunnerLog"/>
	</providers>
	</roleManager>

**QUESTION 66**

**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+"	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?



- ☐ 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();
}
```
- ☐ 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. 

```
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();
}
```
- ☐ 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">`

`<`  `>`

`<`  `>`

`<`  `>`

`<`  `width="320" height="240">`

`<`  `name="movie" value="map.swf" />`

`<`  `src="map.swf" />`

`</`  `>`

`</video>`

**Answer:**

Work Area

```
<video width="320" height="240">
```

```
< [v] >
```

```
source src="map.mp4" type="video/mp4"  
source src="map.ogv" type="video/ogg"  
source src="map.webm" type="video/webm"
```

```
< [v] >
```

```
source src="map.mp4" type="video/mp4"  
source src="map.ogv" type="video/ogg"  
source src="map.webm" type="video/webm"
```

```
< [v] >
```

```
source src="map.mp4" type="video/mp4"  
source src="map.ogv" type="video/ogg"  
source src="map.webm" type="video/webm"
```

```
< [v] width="320" height="240">
```

```
embed  
object  
video  
canvas
```

```
< [v] name="movie" value="map.swf" />
```

```
object  
param  
option  
embed
```

```
< [v] src="map.swf" />
```

```
video  
param  
embed  
source
```

```
</ [v] >
```

```
embed  
object  
video  
canvas
```

```
</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**

Hotspot Question

You need to ensure that only valid parameters are passed to the EditLog action. How should you build the route? (To answer, select the appropriate options in the answer area.)

Work Area

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

**Answer:**

```
Work Area

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

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

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

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

}
);
```

**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**

**MvcApplication / Global.asax**

```
public class MvcApplication : HttpApplication
{
    public static string DefaultProduct { get; set; }

    public static void RegisterRoutes(RouteCollection routes)
    {
        routes.IgnoreRoute("{resource}.axd/{*pathInfo}");

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

**ProductController.cs**

```
public class ProductController : Controller
{
    [HttpGet]
    public Product GetDealPrice(int productId)
    {
        ...
    }

    public ActionResult Show(string productName)
    {
        var price = DataLoader.GetProductPrice(productName);
        return View(new { productName, price });
    }
}
```

**DataLoader.cs**

```
public class DataLoader
{
    public static string GetProductPrice(string productName)
    {
        var currencySymbol = CultureInfo.CurrentCulture.NumberFormat.CurrencySymbol;
        var product = InternalLoad().FirstOrDefault(x => x.Name == productName);
        return currencySymbol + product.Price;
    }

    private static IEnumerable<Product> InternalLoad()
    {
        ...
    }
}
```

**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; }
}
```

**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; }
}
```

**ImageConverter.cs**

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

**web.config**

```
<?xml version="1.0" encoding="utf-8"?>
```

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

- ☐ A. 

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

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

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

**QUESTION 73**

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 74**

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

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

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

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

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

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

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

- ☐ 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 75**

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.WriteLog(filterContext.Exception);

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

```
protected override void OnException(ExceptionContext filterContext)
{
    Utility.WriteLog(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.WriteLog(filterContext.Exception);
        filterContext.ExceptionHandled = true;
        this.View("Error").ExecuteResult(this.ControllerContext);
    }
}
```
- ☐ D. 

```
protected override void OnException(ExceptionContext filterContext)
{
    Utility.WriteLog(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 76**

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**

**Explanation:**

So as of .NET 3.5 SP1, you don't have to add data contract or data member attributes anymore - if you don't then the data contract serializer will serialize all public properties on your class, just like the XML serializer would. HOWEVER: by not adding those attributes, you lose a lot of useful capabilities:

- without [DataContract], you cannot define an XML namespace for your data to live in
- without [DataMember], you cannot serialize non-public properties or fields
- without [DataMember], you cannot define an order of serialization (Order=) and the DCS will serialize all properties alphabetically
- without [DataMember], you cannot define a different name for your property (Name=)
- without [DataMember], you cannot define things like IsRequired= or other useful attributes
- without [DataMember], you cannot leave out certain public properties - all public properties will be serialized by the DCS

**QUESTION 77**

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 78**

You need to modify the application to meet the productId requirement. Which code segment should you use?

- ☐ A. Modify the **RegisterGlobalFilters** method of the Global.asax.cs file as follows.

```
Contract.Assume<ArgumentException>(productId != 0);
```

- ☐ B. Modify the **GetDealPrice** method of **ProductController** as follows.

```
Contract.RequiresAssume<ArgumentException>(productId != 0);
```

- ☐ C. Modify the **GetDealPrice** method of **ProductController** as follows.

```
Contract.Requires<ArgumentException>(productId > 0);
```

- ☐ D. Modify the **RegisterGlobalFilters** method of the Global.asax.cs file as follows.

```
Contract.Requires<ArgumentException>(productId > 0);
```

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

**Answer: C**

#### QUESTION 79

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**

#### Explanation:

We could annotate Edit method with Authorize attribute to make sure that only administrator can edit Customers.

#### QUESTION 80

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?

- ☐ A. 

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

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

```
public static void RegisterGlobalFilters(GlobalFilterCollection filters)
{
    filters.Add(new HandleErrorAttribute
    {
        ExceptionType = typeof(IndexOutOfRangeException),
        Handler = "CustomException",
    });
}
```
- ☐ 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 81

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 82**

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 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. `$("body h1:nth-child(1)").fadeIn(1000);`
- B. `$("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 84**

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 85**

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 86**

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 = [dropdown];
    "image/png"
    "image/gif"
    "image/jpeg"
    "image/bmp"

    var normalFormat = [dropdown];
    "image/png"
    "image/gif"
    "image/jpeg"
    "image/bmp"

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

        {
            if (httpContext.[dropdown].[dropdown])
            {
                Response
                Request
                Application
                Handler
                Browser.IsMobileDevice
                Browser.IsBrowser("MobileDevice")
                Mobile == "android|IPhone|od"
                Mobile == "+mobile|tablet"

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

### Case Study 3 - Video Transcoding Service (QUESTION 87 - QUESTION 97)

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

#### Background

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

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 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 ActionResult 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 secure the administrative functions for all MVC controllers. Which code segment should you use as the body for the CreateController method in AdminVerifierFactory.cs?

- A. `if (requestContext.RouteData.Values["VideoAdmin"] == null)  
 throw new Exception("VideoAdmin not found");  
  
return base.CreateController(requestContext, controllerName) as  
Controller;`
- B. `var controller = base.CreateController  
(requestContext, controllerName) as Controller;  
var attributes = controller.GetType().Attributes.ToString();  
if (!attributes.Contains("VideoAdminAttribute"))  
 throw new Exception("VideoAdminAttribute not found");  
  
return controller;`
- C. `if (requestContext.HttpContext.Items["VideoAdmin"] == null)  
 throw new Exception("VideoAdmin not found");  
  
return base.CreateController(requestContext, controllerName) as  
Controller;`
- D. `var controller = base.CreatorController  
(requestContext, controllerName) as Controller;  
var hasFilter = controller.GetType().CustomAttributes.Any  
(x => x.AttributeType.Name == "VideoAdminAttribute");  
if (!hasFilter == null)  
 throw new Exception("VideoAdminAttribute not found");  
  
return controller;`

**Answer: D**

**Explanation:**

The MemberInfo.CustomAttributes property gets a collection that contains this member's custom attributes. The Any() statement will either return null or a collection of matched custom attributes. If it matches one or more, the controller is secure, otherwise an exception is thrown. From scenario: 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 present.

Incorrect:

Not B: controller.GetType().Attributes will not return custom attributes.

[https://msdn.microsoft.com/en-](https://msdn.microsoft.com/en-us/library/system.reflection.memberinfo.customattributes(v=vs.110).aspx)

[us/library/system.reflection.memberinfo.customattributes\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/system.reflection.memberinfo.customattributes(v=vs.110).aspx)

### 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?

- ☐ A. 

```
var controller = base.CreateController(requestContext, controllerName) as Controller;

var attributes = controller.GetType().Attributes.ToString();

if (!attributes.Contains("VideoAdminAttribute"))
    throw new Exception("Not an Administrator");

return controller;
```
- ☐ B. 

```
if (requestContext.HttpContext.Items["Administrator"] == null)
    throw new Exception("Not an Administrator");

return base.CreateController(requestContext, controllerName) as Controller;
```
- ☐ C. 

```
var controller = base.CreateController(requestContext, controllerName) as Controller;

var hasFilter = controller.GetType().CustomAttributes.Any
    (x => x.AttributeType.Name == "VideoAdminAttribute");

if (hasFilter == null)
    throw new Exception("Not an Administrator");

return controller;
```
- ☐ D. 

```
if (requestContext.RouteData.Values["Administrator"] == null)
    throw new Exception("Not an Administrator");

return base.CreateController(requestContext, controllerName) as Controller;
```

- 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**

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