

# Microsoft

## Exam Questions 70-486

Developing ASP.NET MVC 4 Web Applications



NEW QUESTION 1

DRAG DROP

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.)

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

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

Answer:

Explanation:

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

<td>  
@Html.DisplayFor(model => log.Time)  
</td>  
<td>  
@Html.Partial(  
"\_CalculatePace", log)  
</td>  
<td>  
@Html.ActionLink(  
"Delete", "DeleteLog",  
new { id = log.Id })  
</td>

NEW QUESTION 2

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.)

```
<video width="320" height="240">
  <
  <
  <
  < width="320" height="240">
    < name="movie" value="map.swf" />
    < src="map.swf" />
  </
</video>
```

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

Answer:

Explanation:



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

### NEW QUESTION 3

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**

### NEW QUESTION 4

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**

#### NEW QUESTION 5

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**

#### NEW QUESTION 6

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**

#### NEW QUESTION 7

DRAG DROP

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:

Explanation: Target 1: [Authorize]  
Target 2: [AllowAnonymous]  
Target 3: [Authorize(Roles = "Admin")]  
Target 4: [Authorize(Roles = "Admin")]

NEW QUESTION 8

The RunLog/Views/InsertLog.cshtml view must display the /Images/stopwatch.png image and the "Insert Run Data" header text below the image. The view should resemble the exhibit. (Click the Exhibit button.)



Insert Run Data

RunDate
4/25/2012 9:06:16 AM
Distance
0
Time
HH:MM:SS
00:00:00
Create

The application must display the image above the field set.  
You need to add the HTML code to /Runlog/Views/InsertLog.cshtml to display the image and header text.  
Which code segment should you use?



- ☐ A. 

```
<h2>
  Insert Run Data
</h2>
<div>
  
</div>
```
- ☐ B. 

```
<div style="background: url('../../Images/StopWatch.png');">
  <h2>Insert Run Data</h2>
</div>
```
- ☐ C. 

```
<div style="width: 130px; height: 100px;">
  <a href="../../Images/StopWatch.png"></a>
</div>
<h2>
  Insert Run Data
</h2>
```
- ☐ D. 

```
<div style="width: 130px; height: 100px; background: url(
('../../Images/StopWatch.png'));">
</div>
<h2>
  Insert Run Data
</h2>
```

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

**Answer:** D

**Explanation:** Example:

`<div style="background-image: url(../images/test-background.gif); height: 200px; width: 400px; border: 1px solid black;">Example of a DIV element with a background image:</div>`

`<div style="background-image: url(../images/test-background.gif); height: 200px; width: 400px; border: 1px solid black;"> </div>`

Example of a DIV element with a background image:



Reference: DIV BACKGROUND-IMAGE in the STYLE element

<http://www.w3.org/WAI/UA/TS/html401/cp0301/0301-CSS-DIV-BACKGROUND-IMAGE.html>

#### NEW QUESTION 9

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.

·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

#### NEW QUESTION 10

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**

#### NEW QUESTION 10

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

#### NEW QUESTION 14

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

- A. Modify the RegisterGlobalFilters method of the Global.asax.cs file as follow  
B. `Contract.Assume<ArgumentException>(productId != 0);`  
C. Modify the GetDealPrice method of ProductController as follow  
D. `Contract.Requires<ArgumentException>(productId > 0);`  
E. Modify the RegisterGlobalFilters method of the Global.asax.cs file as follow  
F. `Contract.Requires<ArgumentException>(productId > 0);`  
G. Modify the GetDealPrice method of ProductController as follow  
H. `Contract.Assume<ArgumentException>(productId > 0);`

**Answer:** B

**Explanation:** The `Contract.Requires(Of TException)` method specifies a precondition contract for the enclosing method or property, and throws an exception if the condition for the contract fails.

Syntax: 'Declaration

`Public Shared Sub Requires(Of TException As Exception) ( _ condition As Boolean _ )` Type Parameters

TException

The exception to throw if the condition is false.

Parameters condition

Type: System.Boolean

The conditional expression to test.

Reference: `Contract.Requires(Of TException)` Method (Boolean)

#### NEW QUESTION 18

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

#### NEW QUESTION 22

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

#### NEW QUESTION 27

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 h2:nth-child(1)").animate({ opacity: 0 });  
D. \$("body h1:nth-child(1)").animate({ opacity: 1 });

**Answer:** BC

#### NEW QUESTION 32

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

#### NEW QUESTION 34

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

#### NEW QUESTION 37

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

#### NEW QUESTION 42

HOT SPOT

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:

Explanation:

XXXXXXXXXXXX

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.
        Response
        Request
        Application
        Handler
    .ContentType == 
        "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);
    }
}
    
```

**NEW QUESTION 45**

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**

**Explanation:** Scenario: The value of the productId property must always be greater than 0.

Note: The Contract.Requires(Of TException) method specifies a precondition contract for the enclosing method or property, and throws an exception if the condition for the contract fails.

Syntax: 'Declaration

Public Shared Sub Requires(Of TException As Exception) ( \_ condition As Boolean \_ ) Type Parameters

TException

The exception to throw if the condition is false.

Parameters condition

Type: System.Boolean

The conditional expression to test.

Reference: Contract.Requires(Of TException) Method (Boolean)

#### NEW QUESTION 47

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**

#### NEW QUESTION 51

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**

**Explanation:** From scenario: Information about the first product on the product page must fade out over time to encourage the user to continue browsing the catalog.

#### NEW QUESTION 52

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

**Explanation:** From scenario: Information about the first product on the product page must fade out over time to encourage the user to continue browsing the catalog.

#### NEW QUESTION 56

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

**Explanation:** ASP.NET session state supports several different storage options for session data. Each option is identified by a value in the SessionStateMode enumeration. The following list describes the available session state modes:

- \* StateServer mode, which stores session state in a separate process called the ASP.NET state service. This ensures that session state is preserved if the Web application is restarted and also makes session state available to multiple Web servers in a Web farm.
- \* SQLServer mode stores session state in a SQL Server database. This ensures that session state is preserved if the Web application is restarted and also makes session state available to multiple Web servers in a Web farm.
- \* InProc mode, which stores session state in memory on the Web server. This is the default.
- \* Custom mode, which enables you to specify a custom storage provider.
- \* Off mode, which disables session state.

References: <https://msdn.microsoft.com/en-us/library/ms178586.aspx>

#### NEW QUESTION 61

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

#### NEW QUESTION 63

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

#### NEW QUESTION 64

##### HOTSPOT

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

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:

Explanation:



Work Area

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

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

    if (httpContext..ContentType ==  )
    {
        
        "image/gif"
        "image/jpeg"
        "image/bmp"

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

Case Study: 3,  
 Video Transcoding Service  
 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 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 ThumbnailGenerator : IHttpHandler
{
    public bool IsReusable
    {
        get { return true; }
    }

    public void ProcessRequest(HttpContext context)
    {
        var videoId = context.Request.QueryString["videoId"];
        var startBytes = File.ReadAllBytes(videoId);
        var bytes = BuildThumbnail(videoId);
        StreamResults(context, bytes);
    }

    private Task<byte[]> BuildThumbnail(string videoId)
    {
        return new Task<byte[]>(() => File.ReadAllBytes(videoId));
    }

    private void StreamResults(HttpContext context, byte[] content)
    {
    }
}
```



## 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;
    }
}
```

### NEW QUESTION 66

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 ke
- B. Upload the .cer file to the Management Certificates section on the Azure Management Portal.
- C. Export a certificate with a private ke
- D. Upload the .pfx file to the Management Certificates section on the Azure Management Portal.
- E. Export a certificate without a private ke
- F. Upload the .cer file to the Certificates section under the TranscodeWorkerRole hosted service on the Azure Management Portal.
- G. Export a certificate with a private ke
- H. Upload the .pfx file to the Certificates section under the TranscodeWorkerRole hosted service on the Azure Management Portal.

**Answer:** D

### NEW QUESTION 69

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")]`

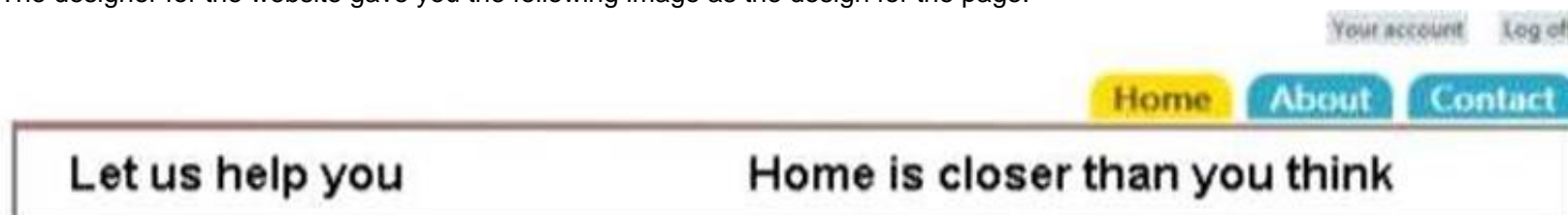
- A. Option A  
 B. Option B  
 C. Option C  
 D. Option D  
 E. Option E

Answer: E

### NEW QUESTION 73

#### HOTSPOT

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



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 {
```

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

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

```
    color: #FFF;
```

```
    border-radius: 12px 12px 0 0;
```

```
    padding: 0 12px 0 12px;
```

```
    margin: 0 4px 0 4px;
```

```
}
```

```
ul#nav li a:hover {
```

```
    color: #333;
```

```
}
```

## 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:

Explanation:



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;
}

```

#### NEW QUESTION 77

You need to maximize performance of video delivery.

Which code segment should you use as the body of the GetVideoStream function in the Video-Controller 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

#### NEW QUESTION 80

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?

- ☐ A. 

```
varresponse = base.SendAsync(request, cancellationToken);  
  
if(request.Headers.Contains("X-Delete"))  
{  
    response.Result.StatusCode = HttpStatusCode.NotImplemented;  
}  
  
returnresponse;
```
- ☐ B. 

```
if(request.Headers.Contains("X-Delete"))  
{  
    request.Method = newHttpMethod("DELETE");  
}  
  
returnbase.SendAsync(request, cancellationToken);
```
- ☐ C. 

```
varresponse = base.SendAsync(request, cancellationToken);  
  
if(response.Result.Headers.Contains("X-Delete"))  
{  
    request.Method = newHttpMethod("DELETE");  
}  
  
returnresponse;
```
- ☐ 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

#### NEW QUESTION 82

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(VaryByCustom = "gzip", VaryByContentEncoding = "all", Location = OutputCacheLocation.Any,)]`
- ☐ B. `[OutputCache(Location = OutputCacheLocation.Any, VaryByParam = "videoId", VaryByContentEncoding = "gzip;q=1.0, compress; q=0.5, ";q=0")]`
- ☐ C. `[OutputCache(Location = OutputCacheLocation.Downstream, VaryByParam = "gzip", VaryByCustom = "browser")]`
- ☐ D. `[OutputCache(Location = OutputCacheLocation.Downstream, Order=1, VaryByContentEncoding = "gzip;q=1.0, compress; q=0.5, ";q=0")]`
- ☐ E. `[OutputCache(VaryByHeader = "Cache-Control", Location = OutputCacheLocation.ServerAndClient, CacheProfile = "gzip")]`

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

Answer: B

NEW QUESTION 83

DRAG DROP

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

```
<Startup>
  <Task commandLine="msiexec transcode.msi" taskType="Target 1">
    <Target 2>
      <Target 3 name="license" value="825534"></Target 4>
    </Target 5>
  </Task>
</Startup>
```

Which markup segments should you include in Target 1, Target 2, Target 3, Target 4 and Target 5 to implement the startup task? To answer, drag the appropriate markup segments to the correct targets. Each markup segments 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.

Markup Segments	Answer Area
	Target 1: Markup Segment
Variable	Target 2: Markup Segment
Environment	Target 3: Markup Segment
foreground	Target 4: Markup Segment
background	Target 5: Markup Segment
simple	

Answer:

Explanation: Target 1: simple  
Target 2:Environment  
Target 3:Variable  
Target 4: Variable

## Target 5: Environment

### NEW QUESTION 87

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.cs?

- ☐ A. 

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

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("Not an Administrator");

return 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.HttpContext.Items["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**

### NEW QUESTION 89

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

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

**Answer: A**

**Explanation:** In case you don't want to use the RDP certificate created by Windows Azure Tools and want to use a custom certificate instead, the following steps will guide you. These steps can also be used in case package is not being published from Visual Studio rather it is being built locally, saved in either Local Machine's Drive or Windows Azure Blob Storage and subsequently published from there.

Here are the steps which are required to get pass the publishing error which you might be running into. You would need to upload the Certificate with Private Key to the portal (when Visual Studio is used this is done in the background).

Detailed steps.

1. In Visual Studio, go to the solution which is being developed.
2. Right click the Web Project -> Configure Remote Desktop -> click on View to see Certificate details (Since I don't have a custom certificate I will use one create by Windows Azure Tools itself)
3. Go to Details tab on Certificate -> Click Copy to file.. -> Next -> Select 'Yes, export the private key' -> Next -> Continue with default setting and create a password when asked (please refer below screenshots)
4. These steps will generate a .PFX file for this certificate. Now we need to upload this certificate to the portal (for the respective cloud service)
5. Go to the Azure Management Portal -> Go to the Cloud Service in question -> Certificates Tab -> Upload the newly created certificate (.PFX file)

Note:

\* The certificates that you need for a remote desktop connection are different from the certificates that you use for other Azure operations. The remote access certificate must have a private key.

\* Microsoft Azure uses certificates in three ways:

/ Management certificates – Stored at the subscription level, these certificates are used to enable the use of the SDK tools, the Windows Azure Tools for Microsoft Visual Studio, or the Service Management REST API Reference. These certificates are independent of any cloud service or deployment.

/ Service certificates – Stored at the cloud service level, these certificates are used by your deployed services.



/ SSH Keys – Stored on the Linux virtual machine, SSH keys are used to authenticate remote connections to the virtual machine.

Reference: How to use Custom Certificate for RDP to Windows Azure Roles <http://blogs.msdn.com/b/cie/archive/2014/02/22/how-to-use-custom-certificate-for-rdp-to-windows-azure-roles.aspx>

#### NEW QUESTION 94

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;
```

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

**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. References: [https://msdn.microsoft.com/en-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)

Case Study: 4, Mixed Question s

#### NEW QUESTION 95

You deploy an ASP.NET MVC e-commerce application to a Microsoft Azure App Services Web App. Users report that the Orders page displays incorrect date and time information. You are unable to reproduce the issue locally.

You need to configure Remote Debugging for the web application.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

### Actions

- In Solution Explorer, right-click the web application and select **Publish**.
- In the Visual Studio Debugger menu, select **Attach Debugger** and then select **DFService.exe (Azure Development Fabric Service)**.
- In Server Explorer, right-click the web application and select **Attach Debugger**.
- Navigate to the Orders page.



### Answer Area



Answer:

Explanation:

### Actions

- In Solution Explorer, right-click the web application and select **Publish**.
- In the Visual Studio Debugger menu, select **Attach Debugger** and then select **DFService.exe (Azure Development Fabric Service)**.
- In Server Explorer, right-click the web application and select **Attach Debugger**.
- Navigate to the Orders page.



### Answer Area

- In Solution Explorer, right-click the web application and select **Publish**.
- In Server Explorer, right-click the web application and select **Attach Debugger**.
- Navigate to the Orders page.



#### NEW QUESTION 100

You are developing an ASP.NET Core MVC web application. The application uses a custom tool named sectarget that performs security audits of the web application's assemblies. The custom tool was built in netstandard1.1 and is packaged into a NuGet package named sectarget.

You need to ensure that the custom tool is run each time the web application is built or published and that the latest version of sectarget is used each time the tool is run.

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

NOTE: Each correct selection is worth one point.

**Answer:**

**Explanation:**

#### NEW QUESTION 102

You are developing an ASP.NET web application.

You need to ensure that the application can securely render user-generated content

What are two possible ways to achieve this goal? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

A)

Use the following WebForms markup:

```
<span><%:userInput%></span>
```

B)

Use the following code:

```
var decodedUserInput = Server.HtmlDecode(userInput);
```

C)

Use the following code:

```
var decodedUserInput = Server.UrlDecode(userInput);
```

A. Option A

- B. Option B
- C. Option C

Answer: AB

**NEW QUESTION 105**

You are developing an ASP.NET MVC application.  
You must handle any first chance exceptions that the application throws. The exception handler has the following requirement.

- Catch any first chance exceptions thrown by the default app domain.
- Display the name of the app domain that caused the exception.
- Display the message for the exception.

You need to implement the exception handler.  
How should you complete the relevant code?

**Code segments**

FirstChanceExceptionEventArgs

FriendlyName

FirstChanceException

SystemException

AppDomain

System

SystemExceptionEventArgs

.....

**Answer Area**

```
class FirstChanceExceptionTest
{
    static void Handler(object src, 

Code segment

 )
    {
        Console.WriteLine("FirstChanceException raised in {0}: {1}",
            

Code segment

 .CurrentDomain, 

Code segment

 ,
            e.Exception.Message);
    }
    static void Main()
    {
        

Code segment

 .CurrentDomain. 

Code segment


        = Handler;
    }
}
```

Answer:

Explanation:



## Code segments

FirstChanceExceptionEventArgs
FriendlyName
FirstChanceException
SystemException
AppDomain
System
SystemExceptionEventArgs

.....

## Answer Area

```
class FirstChanceExceptionTest
{
    static void Handler(object src, FirstChanceExceptionEventArgs e)
    {
        Console.WriteLine("FirstChanceException raised in {0}: {1}",
            AppDomain.CurrentDomain.FriendlyName,
            e.Exception.Message);
    }
    static void Main()
    {
        AppDomain.CurrentDomain.FirstChanceException
            = Handler;
    }
}
```

### NEW QUESTION 106

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some questions sets might have more than one correct solution, while others might not have a correct solution.

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

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

You need to handle the proprietary data format.

Solution: Add an instance of a custom formatter class to the OutputFormatters collection in MVC. Does the solution meet the goal?

- A. Yes
- B. No

**Answer: A**

**Explanation:** We need to add the custom formatter class to the InputFormatters collection in MVC.

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

### NEW QUESTION 109

You are designing a distributed banking application that handles multiple customers. A user may log on to the site to perform activities such as checking balances, performing transactions, and other activities that must be done securely.

The application must store secure information that is specific to an individual user. The data must be automatically and securely purged when the user logs off.

You need to save transient information in a secure data store. Which data store should you use?

- A. NET session state
- B. NET profile properties
- C. NET application state
- D. Shared database

**Answer: A**

### NEW QUESTION 111

DRAG DROP

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

**Answer:**

**Explanation:**

```
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],
        };
    }
}
```

#### NEW QUESTION 116

You develop an ASP.NET MVC application that includes the following class. Line numbers are included for reference only.

```
01 using System.Collections.Generic;
02 namespace RazorTemplate.Models
03 {
04     public class Person
05     {
06         public string Name { get; set; }
07         public List<Person> Friends { get; set; }
08     }
09 }
```

You must use the Razor view engine to display all property values for the class. You need to implement the view. How should you complete the relevant code?



```
@model RazorTemplate.Models.Person
@if (Model != null)
{
    <div>Person's Name: 

|                  |   |
|------------------|---|
|                  | ▼ |
| @Model           |   |
| Model.Name       |   |
| @Model.Name      |   |
| Model.ToString() |   |

 </div>

    <div>Friends' Names</div>
    

|                                                            |   |
|------------------------------------------------------------|---|
|                                                            | ▼ |
| @Model.Friends.ToList()                                    |   |
| @Model.Friends.GetEnumerator()                             |   |
| @foreach (var item in Model.Friends)                       |   |
| @for (var index = 0; index > Model.Friends.Count; index++) |   |



    {
        <div> 

|                             |   |
|-----------------------------|---|
|                             | ▼ |
| @item                       |   |
| @item.Name                  |   |
| @item.Friends               |   |
| @item.Friends.IndexOf(item) |   |

 </div>

    }
}
```

**Answer:**

**Explanation:**

```

@model RazorTemplate.Models.Person
@if (Model != null)
{
    <div>Person's Name: </div>
    <div>
        @Model
        Model.Name
        @Model.Name
        Model.ToString()
    </div>

    <div>Friends' Names</div>
    <div>
        @Model.Friends.ToList()
        @Model.Friends.GetEnumerator()
        @foreach (var item in Model.Friends)
        @for (var index = 0; index < Model.Friends.Count; index++)
    </div>

    <div>
        @item
        @item.Name
        @item.Friends
        @item.Friends.IndexOf(item)
    </div>
}

```

### NEW QUESTION 120

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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

You are developing an ASP.NET Core MVC web application.

The application must be exposed to external users over ports 80 and 443 and must meet the following requirements:

- Handle more than 1024 simultaneous connections.
- Support Windows authentication.
- Support HTTP/2 over TLS.
- Include response caching.
- Protect against denial-of-service attacks.

You need to deploy the application to an on-premises web server. Solution: You deploy the application to Kestrel with an US reverse proxy.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

### NEW QUESTION 122

DRAG DROP

You are developing an ASP.NET MVC web application that requires HTML elements to take on new behaviors. These should be implemented with a behavior script in a page that is only for Microsoft Internet Explorer users.

The colorchange.js script uses the Microsoft CSS vendor-specific Behavior extension. You need to apply the script with CSS.

You need to use the script to change the color of text. You have the following markup:

```
<h1 Target 1 Target 2>What a colorful header!</h1>
```

Which styles should you include in Target 1 and Target 2 to complete the markup? (To answer, drag the appropriate styles to the correct targets. Each style 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.)

Styles

style="behavior:

style="url:

style="behaviorurl:

Styles

url(colorchange.js);"

behavior(colorchange.js);"

colorchange.js;"

Answer area

Target 1: 

Style

Target 2: 

Style

Answer:

Explanation: Styles

style="behavior:

style="url:

style="behaviorurl:

Styles

url(colorchange.js);"

behavior(colorchange.js);"

colorchange.js;"

Answer area

Target 1: 

style="behavior:

Target 2: 

url(colorchange.js);"

NEW QUESTION 125

DRAG DROP

You are developing an ASP.NET MVC application in Visual Studio 2012. The application processes data for a bakery and contains a controller named BagelController.es that has several actions. The GetBagel action is defined in the following code segment.

```
public ActionResult GetBagel(string bagelName)
{
    ...
}
```

The GetBagel action is the only action that should be accessed via a URL pattern. Routes to the other actions in the controller must be suppressed.

The default route must map to HomeController and the Index action. You need to build the routes.

Which three code segments should you use in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)



### Actions

```
routes.MapRoute(
    name: "Bagels",
    url: "Bagel/GetBagel/{bagelName}",

    defaults: new { controller = "Bagel", action = "
GetBagel" });

routes.IgnoreRoute("Bagel/{*}");

routes.IgnoreRoute("Bagel/{*pathInfo}");

routes.MapRoute(
    name: "Default", url: "{controller}/{action}/
{id}",

    defaults: new { controller = "Home", action = "I
ndex", id = UrlParameter.Optional });

routes.MapHttpRoute(
    name: "Bagels",
    routeTemplate: "Bagel/GetBagel/{bagelName}",

    defaults: new { controller = "Bagel", action = "
GetBagel" });
```

### Answer Area

Answer:

Explanation:

### Actions

```
routes.MapRoute(
    name: "Bagels",
    url: "Bagel/GetBagel/{bagelName}",

    defaults: new { controller = "Bagel", action = "
GetBagel" });

routes.IgnoreRoute("Bagel/{*}");

routes.IgnoreRoute("Bagel/{*pathInfo}");

routes.MapRoute(
    name: "Default", url: "{controller}/{action}/
{id}",

    defaults: new { controller = "Home", action = "I
ndex", id = UrlParameter.Optional });

routes.MapHttpRoute(
    name: "Bagels",
    routeTemplate: "Bagel/GetBagel/{bagelName}",

    defaults: new { controller = "Bagel", action = "
GetBagel" });
```

### Answer Area

```
routes.MapRoute(
    name: "Bagels",
    url: "Bagel/GetBagel/{bagelName}",

    defaults: new { controller = "Bagel", action = "
GetBagel" });

routes.IgnoreRoute("Bagel/{*pathInfo}");

routes.MapRoute(
    name: "Default", url: "{controller}/{action}/
{id}",

    defaults: new { controller = "Home", action = "I
ndex", id = UrlParameter.Optional });
```

### NEW QUESTION 126

You are developing an ASP.NET MVC application.  
 You need to choose the appropriate Visual Studio templates to use for each test goal.

Which Visual Studio Unit Test project templates should you use? To answer, drag the appropriate Unit Test project template to the correct test goal or test goals. Each project template 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.

Project templates	Test goal	Unit Test project template
Coded UI Test Project	Validate the input controls an a web application.	Project template
Unit Test Project	Test the internal validity of calculations in class methods.	Project template
Web Performance and Load Test Project	Test the web application speed while retrieving data from SQL Server.	Project template
	Validate the number of simultaneous users for a social portal.	Project template

Answer:

**Explanation:** Box 1: Coded UI Test Project

Automated tests that drive your application through its user interface (UI) are known as coded UI tests (CUITs). These tests include functional testing of the UI controls. They let you verify that the whole application, including its user interface, is functioning correctly. Coded UI Tests are particularly useful where there is validation or other logic in the user interface, for example in a web page. They are also frequently used to automate an existing manual test.

Box 2: Unit Test Project

Unit testing is a software testing method by which individual units of source code, sets of one or more computer program modules together with associated control data, usage procedures, and operating procedures, are tested to determine whether they are fit for use.[1] Intuitively, one can view a unit as the smallest testable part of an application.

Box 3: Web Performance and Load Test Project Box 4: Web Performance and Load Test Project

A load test is a container of Web performance tests and unit tests.

A load test exposes many run-time properties that can be modified to generate the desired load simulation. References: <https://msdn.microsoft.com/en-us/library/dd286726.aspx>

References: [https://msdn.microsoft.com/en-us/library/ms182594\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/ms182594(v=vs.110).aspx)

**NEW QUESTION 131**

You are developing an ASP.NET Core MVC web application that provides assets to external websites including images, JavaScript scripts and text files. The external websites must be able to make full use of assets provided to them by the web application, including JavaScript asynchronous HTTP requests. Pages that refer to the images and text files do not load. External websites are unable to use assets. You need to resolve the issues. What should you do?

- A. Add a MVC controller and action to load the files from the folder.
- B. In the startup Configure method, call IApplicationBuilder
- C. Use StaticFiles for the folder that contains the files.
- D. In the startup ConfigureServices method, call IServiceCollectio
- E. Add DirectoryBrowser for the folder that contains the files.
- F. Mark vendor provided files as content and set the value for Copy to Output Directory to CopyAlways

Answer: B

**Explanation:** References:

<https://docs.microsoft.com/en-us/aspnet/core/fundamentals/middleware/?view=aspnetcore-2.1&tabs=aspnetcore>

**NEW QUESTION 136**

You develop an application that receives data input from users and from Internet of Things (IoT) devices across the Internet. You must secure all data connections. You need to implement security by using classes from the System.Net namespace. Which classes should you use? To answer, drag the appropriate classes to the correct scenarios. Each class may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content. NOTE: Each correct selection is worth one point.



Classes	Answer area	Class
SocketPermission	Serve a URI to the Internet.	Class
SecretPermissions	Use WebRequest to manage permissions.	Class
WebResponse	Connect to a remote transport address.	Class
WebPermission		

Answer:

**Explanation:** Box 1: WebPermission

Box 2: WebPermission

Box 3: SocketPermission References:

<https://docs.microsoft.com/en-us/dotnet/framework/network-programming/web-and-socket-permissions>

#### NEW QUESTION 137

You are developing an ASP.NET application.

You need to minimize the amount of data in all HTTP responses. What should you do?

- A. Minify the content files.
- B. Enable compression in IIS.
- C. Host the image, JavaScript, and CSS files on Microsoft Azure Storage.
- D. Bundle the content files.

Answer: B

**Explanation:** Network bandwidth is a limited resource. Reducing the size of the response usually increases the responsiveness of an app, often dramatically. One way to reduce payload sizes is to compress an app's responses. Use server-based response compression technologies in IIS, Apache, or Nginx.

References:

<https://docs.microsoft.com/en-us/aspnet/core/performance/response-compression?tabs=aspnetcore2x>

#### NEW QUESTION 142

The application includes the following method. (Line numbers are included for reference only.)

```

01 public static void
RegisterGlobalFilters(GlobalFilterCollection filters)
02 {
03     filters.Add(new HandleErrorAttribute
04     {
05
06     });
07 }
```

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 line of code should you insert at line 05?

- A. `ExceptionType = typeof(IndexOutOfRangeException), View = 'CustomException'`
- B. `ExceptionType = typeof(NullReferenceException), View = 'CustomException'`
- C. `ExceptionType = typeof(IndexOutOfRangeException), Handler = 'CustomException'`
- D. `ExceptionType = typeof(NullReferenceException), Handler = 'CustomException'`

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



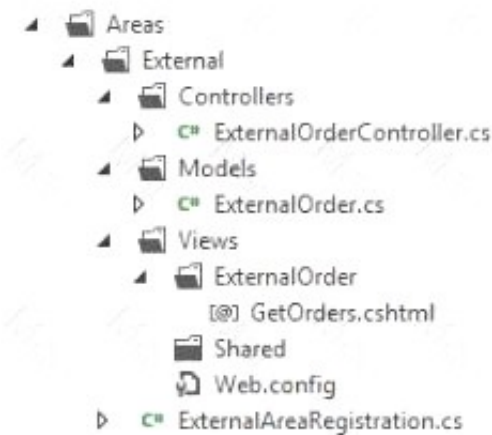
D. Option D

Answer: B

NEW QUESTION 144

DRAG DROP

You are developing an ASP.NET MVC application in Visual Studio.  
The application contains an area that is defined as shown in the following graphic.



The ActionLink method must invoke the GetOrders() action in ExternalOrderController. You need to configure the parameters of the ActionLink method.  
You have the following markup.

```
<li>
    @Html.ActionLink(
        "ViewExternalOrders",
        Target 1
        Target 2
        new { area = Target 3 }
        ,null
    )
</li>
```

Which markup segments should you include in Target 1, Target 2 and Target 3 to complete the markup? To answer, drag the appropriate markup segment to the correct targets. Each markup 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.

Markup Segments

"GetOrders",

"External",

"ExternalOrder",

"ExternalOrderController",

Answer area

Target 1:

Markup Segment

Target 2:

Markup Segment

Target 3:

Markup Segment

Answer:

**Explanation:** Target 1: "GetOrders",  
Target 2: "ExternalOrderController",  
Target 3: External,  
Target 1: the action is getOrders  
Target 2: the controller is ExternalOrderController Target 3: The area is External  
LinkExtensions.ActionLink Method (HtmlHelper, String, String, String, RouteValueDictionary, IDictionary<String, Object>)  
Use:  
Html.ActionLink("Text", "ActionName", "ControllerName", new { Area = "AreaName" }, null)  
References:

NEW QUESTION 146

You develop an ASP.NET MVC application. You plan to implement ASP.NET SignalR for real-time push notifications. The application includes the following class:

```
public class MyHub : Hub
{
    public void Hello(string message)
    {
        Clients.All.hello(message);
    }
}
```

You need to display the message.  
How should you complete the relevant code segment? 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.

Code segments

`$.connection.hub('local');`

`$.hubConnection();`

`$.hubConnection().connection.start();`

`hub.on('hello', function (message) {`

`hub.start('function', function (hello) {`

`con.createHubProxy('MyHub');`

`con.start();`

Answer Area

`<div>`

`<script src="~/Script/jquery.js"></script>`

`<script src="~/Script/jquery.signalR.js"></script>`

`<div id="message"></div>`

`<script type="text/javascript">`

`$(function() {`

`var con =`

Code segment

`var hub =`

Code segment

Code segment

`$('#message').text(message);`

`});`

`});`

`</script>`

`</div>`

Answer:

**Explanation:** Box 1: \$.hubconnection(); Create a connection.  
Box 2: con.createHubProyxy('MyHub');  
Declare a proxy to reference the hub.  
Box 3: hub.start()('function', function(hello) { Start the connection  
References: <https://www.asp.net/signalr/overview/getting-started/tutorial-getting-started-with-signalr>

NEW QUESTION 147

You are developing an ASP.NET Core MVC web application. The web application must meet the following requirements:

- ▶ Allow users to create a user name and password.
- ▶ Use cookie-based authentication.
- ▶ Store user credentials in a Microsoft SQL Server database. You need to implement ASP.NET Core Identity.

How should you complete the code? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

## Answer Area

```
public class Startup
{
    ...
    public void ConfigureServices(IServiceCollection services)
    {
        services.AddDbContext<ApplicationDbContext>(options =>
            options.  (Configuration.GetConnectionString("DefaultConnection")));

        services.  <ApplicationUser, IdentityRole>()

        .AddEntityFrameworkStores<ApplicationDbContext>()
        .AddDefaultTokenProviders();

        services.  <IdentityOptions>(options =>
        {
            options.Password.RequireDigit = true;
            options.Lockout.DefaultLockoutTimeSpan = TimeSpan.FromMinutes(30);
        });

        services.  (options =>
        {
            options.Cookie.HttpOnly = true;
            options.Cookie.Expiration = TimeSpan.FromDays(90);
            options.SlidingExpiration = true;
        });
    }
    public void Configure(IApplicationBuilder app, IHostingEnvironment env)
    {
        ...
        app.  ();
        ...
    }
}
```

Answer:

**Explanation:** Box 1: UseSqlServer

Box 2: AddIdentity

Box 3: Configure

Box 4: ConfigureApplicationCookie

Box 5: UseAuthentication References:

<https://docs.microsoft.com/en-us/aspnet/core/security/authentication/identity?view=aspnetcore-2.1&tabs=visual->

### NEW QUESTION 152

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



```
<Startup>
  <Task commandLine="msiexec transcode.msi" taskType="Target 1" >
    <Target 2 >
      <Target 3 name="license" value="825534"></Target 4 >
    </Target 5 >
  </Task>
</Startup>
```

Which markup segment should you include in Target 1, Target 2, Target 3, Target 4 and Target 5 to implement the startup task? To answer, drag the appropriate markup segments to the correct targets. Each markup segments 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.

Markup Segments

Variable

Environment

foreground

background

simple

Answer Area

Target 1:

Markup Segment

Target 2:

Markup Segment

Target 3:

Markup Segment

Target 4:

Markup Segment

Target 5:

Markup Segment

Answer:

**Explanation:** Simple: Means this task would needs to be complete before the Role Starts. If task will not complete and exit, the Role will stuck to wait till the task completion. Simple tasks run until they exit, and then the next task (or the RoleEntryPoint if this is the last startup task) is executed.

NEW QUESTION 157

HOTSPOT

You develop a new ASP.NET MVC web application. The application is hosted in an Azure Web Role. It includes the following code. Line numbers are included for reference only.

```

01 public override void OnStop()
02 {
03     Trace.TraceInformation("OnStop called within Web Role");
04     var performanceCounterCurrentRequests = new PerformanceCounter("ASP.NET", "Requests Current", "");
05     while (true)
06     {
07         var currentRequestsCount = performanceCounterCurrentRequests.NextValue();
08         Trace.TraceInformation("ASP.NET Requests Current = " + currentRequestsCount);
09         if (currentRequestsCount <= 0)
10         {
11             break;
12         }
13         System.Threading.Thread.Sleep(1000);
14     }
15 }

```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

Answer Area

	Yes	No
When the web server is so busy that the pending requests cannot be completed in five minutes, the Web role is shut down.	<input type="radio"/>	<input type="radio"/>
When an unhandled exception occurs within the Web role, the Stopping event is raised, and the <b>OnStop</b> method code runs.	<input type="radio"/>	<input type="radio"/>
The Web role initiates a shutdown immediately following the return of the <b>OnStop</b> method code.	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation: Answer Area

	Yes	No
When the web server is so busy that the pending requests cannot be completed in five minutes, the Web role is shut down.	<input checked="" type="radio"/>	<input type="radio"/>
When an unhandled exception occurs within the Web role, the Stopping event is raised, and the <b>OnStop</b> method code runs.	<input type="radio"/>	<input checked="" type="radio"/>
The Web role initiates a shutdown immediately following the return of the <b>OnStop</b> method code.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 160

You are developing an ASP.NET MVC application. The application uses a set of custom exceptions to log errors that occur during the execution of an action. You need to develop a class that implements logging. Which interface should you implement?

- A. IExceptionFilter
- B. IActionFilter
- C. IClientValidatable
- D. IResultFilter

Answer: A

**Explanation:** Exception filters are used to apply global policies to unhandled exceptions in the MVC app. Exception Filters implement either the IExceptionFilter or IAsyncExceptionFilter interface.  
 Exception filters handle unhandled exceptions, including those that occur during controller creation and model binding. They are only called when an exception occurs in the pipeline.

NEW QUESTION 162

DRAG DROP

You are developing an ASP.NET MVC application that allows users to log on by using a third-party authenticator.

You need to configure Microsoft Azure Access Control Services and the application.

Which five actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Actions	Answer Area
Generate provider rules for claims.	
Register the application as the relying party.	
Add a Security Token Service (STS) reference in Visual Studio 2012.	
Create a service namespace.	
Add the third-party as the identity provider.	
Add a symmetric key service identity.	

**Answer:**

**Explanation:** Box 1: Create a service namespace

The first step is to create an ACS Namespace. This is your Security Token Services (STS) that will generate Signed Identity tokens to be consumed by WAP. This will also be the only STS that WAP will trust.

Box 2: Register the application as a relaying partner.

Now that the Namespace is created, you will have to tell it about the WAP Portals that is expecting tokens from it. We add the WAP Tenant Portal as a Relying Party to ACS (Access Control Services).

Box 3: Add a Security Token Service (STS) reference in Visual Studio 2012.

Now that the Namespace is created, you will have to tell it about the WAP Portals that is expecting tokens from it.

1. Click on Relying Party Applications and click on Add to add the Windows Azure Pack tenant Portal as a Relying Party to this namespace. This essentially tells the ACS namespace that the Tenant Portal is expecting it to provide user identities.

2. You will now go to the Add Relying Party Application page where you can enter details about the WAP tenant Portal.

3. The easier option is to provide the federation Metadata from the tenant portal. Save the XML file locally on your computer

4. Now back in the ACS management portal, Upload the federation metadata file and provide a Display Name for the Relying Party.

5. Scroll Down to the Token Format section and choose the token format to be 'JWT'. By Default, the Windows Live Identity Provider will be selected. Deselect it if you do not want to allow users to sign in using their Live id. Under the Token Signing Settings section, select X.509 Certificate as the Type. Click on Save.

Box 4: Add the third-party as the identity provider.

We have our ACS and WAP portals setup. We now have to find a source of Identities that can be flown in to the WAP Portals through ACS. We configure external services to act as Identity Providers

Box 5: Generate provider rules for claims

We now have our Relying Party and our Identity Providers set up. We should now tell ACS how to transform the incoming Claims from these Identity providers so that the Relying Party can understand it. We do that using Rule Groups which are a set of rules that govern Claim Transformation. Since, we have two identity Providers, we will have to create a rule for each of these.

References:

<https://blogs.technet.microsoft.com/privatecloud/2014/01/17/setting-up-windows-azure-active-directory-acs-to-p>

#### NEW QUESTION 163

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 HTML5 forms to XForms.
- C. Ensure that HTML5 content elements have valid and descriptive names.
- D. Use HTML5 semantic markup elements to enhance the pages.
- E. Use Resource Description Framework (RDF) to describe content elements throughout the entire page.

**Answer:** ACD

**Explanation:** A: The aria-describedby property may be used to attach descriptive information to one or more elements through the use of an id reference list. The id reference list contains one or more unique element ids.

References: <https://www.w3.org/TR/WCAG20-TECHS/ARIA1.html>

#### NEW QUESTION 167

You are developing an ASP.NET MVC application that processes payments for an online retailer The retailer provides a .NET assembly that contains a class named Retail EventSource That derives from the EventSource class.



The RetailEventSource class has a method named SuspiciousTransaction that returns True when the order originates from a system that differs significantly from the system that usually performs orders. The RetailEventSource class also has a field named PaymentProcessed that stores the event identifier for a payment-processed event. Events must be written only when the event source is in a state where writing events is valid You need to create a derived type that contains the method to raise a PaymentProcessed event

Code segments

Equals(this)

SuspiciousTransaction()

IsEnabled()

Guid

Name

Answer Area

```
public class PaymentEvents : RetailEventSource
{
    public void LogPayment(string data)
    {
        if (
            Code segment
        )
        {
            Code segment
            != null
        }
        WriteEvent(PaymentProcessed, FormattedData(data));
    }
}
```

Answer:

Explanation:

Code segments

Equals(this)

SuspiciousTransaction()

IsEnabled()

Guid

Name

Answer Area

```
public class PaymentEvents : RetailEventSource
{
    public void LogPayment(string data)
    {
        if (
            IsEnabled()
        )
        {
            Name
            != null
        }
        WriteEvent(PaymentProcessed, FormattedData(data));
    }
}
```

NEW QUESTION 169

DRAG DROP

You are developing an ASP.NET MVC application in a web farm. The application has a page that accepts a customer's order, processes it, and then redirects the browser to a page where the order is displayed along with the shipping information. The order information should be available only to the page where the order is displayed. You need to store state and configure the application. What should you do? To answer, drag the appropriate item to the correct location. Each item 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.

Items

TempData

ViewData

InProc

SqlServer

Answer area

Store state in

Item

and set the mode attribute of

the sessionState element in the web.config file to

Item

Answer:

Explanation: Target 1: InProc  
Target 2: ViewData

\* InProc mode, which stores session state in memory on the Web server. This is the default. References:

#### NEW QUESTION 173

You are designing a localized ASP.NET MVC online shopping application that will be deployed to customers in the United States, China, France, and Brazil. The application must support multiple cultures so that content in the appropriate language is available in each area. You need to ensure that the content can be viewed in several languages. How should you implement this feature?

- A. Use a resource (.resx) file to provide translations.
- B. Use Systems.Collections.Generic.Dictionary to store alternative translations.
- C. Ensure that all strings are marked internal to avoid conflict with internal literals.
- D. Include language-specific content in the assembly manifest and use .NET culture libraries.

**Answer:** A

**Explanation:** A resource file is an XML file that contains the strings that you want to translate into different languages or paths to images. The resource file contains key/value pairs. Each pair is an individual resource. Key names are not case sensitive. For example, a resource file might contain a resource with the key Button1 and the value Submit.

You create a separate resource file for each language (for example, English and French) or for a language and culture (for example English [U.K.], English [U.S.]). Each localized resource file has the same key/value pairs; the only difference is that a localized resource file can contain fewer resources than the default resource file. The built-in language fallback process then handles loading the neutral or default resource.

#### NEW QUESTION 177

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.

You have the following code:

```
public class USOnlyRouteHandler : Target 1
{
    public Target 2 GetHttpHandler (Target 3
        requestContext)
    {
        // ...
        return new USPIHandler (requestContext);
    }
}
```

Which code segments should you include in Target1, Target 2 and Target 3 to implement the route handler? To answer, drag the appropriate code segments 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.

NOTE: Each correct selection is worth one point.

#### Code Segments

IHttpHandler  
 IHttpConstraint  
 IRouteFactory  
 RequestContext  
 IRouteHandler  
 ServerContext

#### Answer area

Target 1: Code Segment  
 Target 2: Code Segment  
 Target 3: Code Segment

**Answer:**

**Explanation:** Example:

This class implements IRouteHandler and has only one method "GetHttpHandler". The main purpose of this class is to return the instance of CustomHandler class. In the constructor, we are passing the RequestContext to the handler.

```
{
public class CustomRouteHandler : IRouteHandler
{
public IHttpHandler GetHttpHandler(RequestContext requestContext)
{
return new CustomHandler(requestContext);
}
}
```

References:

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

#### NEW QUESTION 180

You are developing an ASP.NET Core web application. The application includes a secure area only accessible to authenticated users. The application must:

- ☐ Reside on the same server as the reverse proxy.
- ☐ Use a reverse proxy for caching and serving static content.
- ☐ Use basic authentication for the secure area.
- ☐ Use the HTTPS protocol for the secure area.
- ☐ Use the HTTPS protocol for all non-secure content. You need to deploy the application.

Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Use the RewriteMiddleware from Microsoft.AspNetCore.Rewrite.
- B. Use the ForwardedHeaders middleware from Microsoft.AspNetCore.HttpOverrides.
- C. Use Http.sys as the web server for the application and Apache on Linux as the reverse proxy.
- D. Use Kestrel as the web server for the application and Nginx on Linux as the reverse proxy.

**Answer:** AD

**Explanation:** References:

<https://docs.microsoft.com/en-us/aspnet/core/fundamentals/url-rewriting?view=aspnetcore-2.1> <https://docs.microsoft.com/en-us/aspnet/core/fundamentals/servers/kestrel?view=aspnetcore-2.1>

#### NEW QUESTION 182

You manage an application that has a custom API. Your company purchases another company. Employees from the purchased company use their own Microsoft Azure Active Directory (Azure AD).

You need to reconfigure the application to ensure that all users can access the application by using the API. You have the following requirements:

- ☐ Implement authentication for Azure API management.
- ☐ Configure the API gateway for proper authorization.
- ☐ Integrate metrics into one dashboard.
- ☐ Apply additional restrictions to all roles.

What should you implement? To answer, configure the appropriate options in the dialog box in the answer area.

NOTE: Each correct selection is worth one point.

### Answer Area

Requirement	Capability
Provide authentication for API management.	<div><div></div><div>Azure virtual networks Groups Ipsec VPN</div></div>
Configure the gateway.	<div><div></div><div>Transforms Operations Policies</div></div>
Integrate metrics into one dashboard.	<div><div></div><div>Application Insights Azure Monitor Log analytics Stream Analytics</div></div>
Add restrictions for all users.	<div><div></div><div>Active Directory Domain Services (AD DS) Azure Key Vault Role-Based Access Control (RBAC)</div></div>



**Answer:**

**Explanation:** Box 1: Groups

Add an external Azure AD group

After you enable access for users in an Azure AD instance, you can add Azure AD groups in API Management. Then, you can more easily manage the association of the developers in the group with the desired products.

To configure an external Azure AD group, you must first configure the Azure AD instance on the Identities tab by following the procedure in the previous section.

You add external Azure AD groups from the Groups tab of your API Management instance. Box 2: Policies

Policies are applied inside the gateway which sits between the API consumer and the managed API. The gateway receives all requests and usually forwards them unaltered to the underlying API. However a policy can apply changes to both the inbound request and outbound response.

Box 3: Application Insights

Application Insights is an extensible Application Performance Management (APM) service for web developers on multiple platforms. Use it to monitor your live web application.

Box 4: Role-Based Access Control (RBAC) Apply additional restrictions to all roles.

Azure API Management relies on Azure Role-Based Access Control (RBAC) to enable fine-grained access management for API Management services and entities (for example, APIs and policies).

References:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-aad> <https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-policies> <https://docs.microsoft.com/en-us/azure/api-management/api-management-role-based-access-control>

### NEW QUESTION 187

DRAG DROP

You are developing an ASP.NET web application that uses health monitoring to log events to the Windows Event Log. The application contains a custom event that is defined in the following code segment. Line numbers are included for reference only.

You need to ensure that the event is correctly added to the Windows event log.

How should you complete the relevant code? 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.

Code segments	Answer Area
<code>.WebExtendedBase + 30</code>	<pre> public ActionResult myResult() {     var code = WebEventCodes     var outage = new PaymentProcessorOutage(this, code);     outage     return Content("done"); }                     </pre> <div style="border: 1px dashed gray; width: 150px; height: 20px; margin: 5px 0; text-align: center;">Code segment</div> <div style="border: 1px dashed gray; width: 150px; height: 20px; margin: 5px 0; text-align: center;">Code segment</div>
<code>.ApplicationCodeBase + 30;</code>	
<code>.ApplicationDetailCodeBase + 30;</code>	
<code>.FormatCustomEventDetails(null);</code>	
<code>.Raise();</code>	
<code>.Concat()</code>	

**Answer:**

**Explanation:** ApplicationDetailCodeBase: Identifies the offset for the application detail event codes. This field is constant. WebRequestEvent.Raise()

Raises an event by notifying any configured provider that the event has occurred. (Inherited from WebBaseEvent.)

[https://msdn.microsoft.com/en-us/library/system.web.management.webrequestevent\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/system.web.management.webrequestevent(v=vs.110).aspx)

### NEW QUESTION 191

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

### NEW QUESTION 194

You are developing an ASP.NET Core Web API.

API methods must use JSON Web Tokens (JWT) to authenticate the method caller. You need to implement JWT authentication.

How should you complete the code? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

## Answer Area

```
public class Startup
{
    . . .
    public void ConfigureServices(IServiceCollection services)
    {
        services. AddIdentity (JwtBearerDefaults.AuthenticationScheme)
        AddAuthentication
        AddIdentity
        AddAuthorization

        AddOAuth ("JwtBearer", jwtBearerOptions =>
        {
            jwtBearerOptions.TokenValidationParameters = new TokenValidationParameters
            {
                ValidateActor = true, ValidateAudience = true, ValidateLifetime = true,
                ValidateIssuerSigningKey = true, ValidIssuer = Configuration["Tokens:Issuer"],
                ValidAudience = Configuration["Tokens:Audience"], IssuerSigningKey =
                new SymmetricSecurityKey(Encoding.UTF8.GetBytes(Configuration["Tokens:SigningKey"]))
            };
        });
        services.AddMvc();
    }
    public void Configure(IApplicationBuilder app, IHostingEnvironment env)
    {
        . . .
        app.
        app.Use
        UseAuthentication
        UseCookieAuthentication
        UseIdentity
    }
}
```

Answer:

Explanation:





## Items

Microsoft Azure CDN

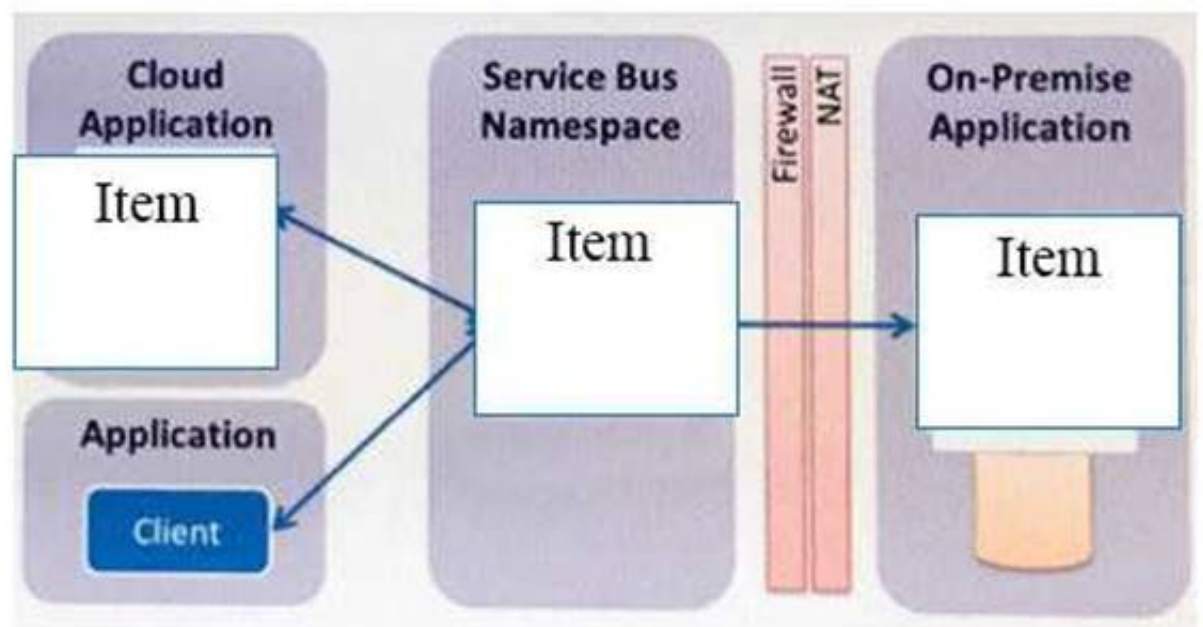
Azure Relay

Traffic Manager

WCF Service

Web Role

## Answer Area



**Answer:**

**Explanation:** References: <https://docs.microsoft.com/en-us/azure/service-bus-relay/relay-wcf-dotnet-get-started>

### NEW QUESTION 200

#### HOTSPOT

You are using the features of the IIS SEO Toolkit to configure the website. You need to exclude search engines from indexing parts of website. What should you do? (To answer, select the appropriate option from the drop-down list in the answer area.)

#### Answer Area

Use the  feature in the IIS

- exclude
- disallow
- User-Agent:Exclusion
- Robots Exclusion
- robots.txt
- exclusions.txt

Search Engine Optimization Toolkit to create a

- exclude
- disallow
- User-Agent:Exclusion
- Robots Exclusion
- robots.txt
- exclusions.txt

file and add  rules.

- exclude
- disallow
- User-Agent:Exclusion
- Robots Exclusion
- robots.txt
- exclusions.txt

**Answer:**

**Explanation:**

### Answer Area

Use the  feature in the IIS

Search Engine Optimization Toolkit to create a

file and add  rules.

### NEW QUESTION 204

You are developing an ASP.NET MVC application that delivers real-time game results to sports fans. The application includes the following code. Line numbers are included for reference only.

```
01 public class HomeController : Controller
02 {
03     public ActionResult Index()
04     {
05         return View();
06     }
07     [OutputCache(Duration = 3600, VaryByParam = "none", Location = OutputCacheLocation.Server, NoStore = true)]
08     public ActionResult GetUserInfo()
09     {
10         return View();
11     }
12     [OutputCache(Duration = 3600, VaryByParam = "none", Location = OutputCacheLocation.Server, NoStore = true)]
13     public ActionResult GetResults()
14     {
15         return View();
16     }
17 }
```

The source data for the game results is updated every 30 seconds. Testers report the following issues with the application:

- They report seeing other user's name when they sign in to the application.
- They report delays in seeing the latest game results.

You need to correct the performance issues.

Which two changes should you make to the code? Each correct answer presents part of the solution.

- Replace the code at line 07 with the following code segment: `[OutputCache(Duration = 30, VaryByParam = "none", Location = OutputCacheLocation.Client, NoStore = true)]`
- Replace the code at line 12 with the following code segment: `[OutputCache(Duration = 30, VaryByParam = "none", Location = OutputCacheLocation.Server, NoStore = true)]`
- Replace the code at line 07 with the following code segment: `[OutputCache(Duration = 3600, VaryByParam = "none", Location = OutputCacheLocation.Server, NoStore = false)]`
- Replace the code at line 12 with the following code segment: `[OutputCache(Duration = 3600, VaryByParam = "none", Location = OutputCacheLocation.Client, NoStore = true)]`

**Answer: AB**

**Explanation:** B: They report delays in seeing the latest game results. This is the output of the GetResults() function. We decrease the Duration in the cache for this function from 3600 to 30. This is one line 12.

A: They report seeing other user's name when they sign in to the application. This is the output of the GetUserInfo() function. We should change the OutputCacheLocation of the caching of this function from Server to Client. This is on line 7.

Note: The OutputCacheLocation.Client option indicates that the content should be cached at the requesting client. Any requests for the same resource made from the same client within the expiry period, will be served out the client's cache, without a network request being made to the server.

The OutputCacheLocation.Server option indicates that the content will be cached at the origin server. This content will be served for subsequent requests made by the initial client and any other client requesting the same resource within the expiry period.

References: <https://growlycode.wordpress.com/2014/01/10/mvc4-outputcache-location-basics/>

#### NEW QUESTION 207

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some questions sets might have more than one correct solution, while others might not have a correct solution.

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

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

You need to handle the proprietary data format.

Solution: Add a custom formatter class to the Web API and implement the IOutputFormatter interface. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** A

#### NEW QUESTION 210

You are developing an ASP.NET MVC application that will be deployed on local Internet Information Services (IIS) servers and on an Azure Web Role.

You must log events for the application when it is deployed locally and on Azure. You must not deploy additional services.

You need to implement a logging solution.

Which two technologies can you use? Each correct answer presents a complete solution.

- A. event log
- B. trace
- C. console
- D. named pipe

**Answer:** AB

#### NEW QUESTION 212

You are developing an ASP.NET application that allows users to download Microsoft Azure log files. You need to improve the performance of the application. What should you do?

- A. Minify the content files.
- B. Enable compression in IIS.
- C. Bundle the content files into a single .tar file.
- D. Host the image, JavaScript, and CSS files on a different server.

**Answer:** C

**Explanation:** Bundling is a new feature in ASP.NET 4.5 that makes it easy to combine or bundle multiple files into a single file. You can create CSS, JavaScript and other bundles. Fewer files means fewer HTTP requests and that can improve first page load performance.

References: <https://www.asp.net/mvc/overview/performance/bundling-and-minification>

#### NEW QUESTION 214

You develop an ASP.NET MVC application. The application is configured for claims-based authentication by using Windows Identity Foundation (WIF).

You need to access the claims in the WIF token. Which code segment should you use?

- A. Thread.CurrentPrincipal.Identity;
- B. ((IClaimsPrincipal)Thread.CurrentPrincipal).Identities[0].Claims;
- C. Thread.CurrentPrincipal;
- D. ((IClaimsPrincipal)Thread.CurrentPrincipal).Identities[0].IsAuthenticated;

**Answer:** B

**Explanation:** To Access the Claims

In order to access identity related information, you can run FedUtil. Once you have run FedUtil, your application can access IClaimsPrincipal and IClaimsIdentity using the standard ASP.NET constructs as shown in the following code example:

```
void Page_Load(object sender, EventArgs e)
{
    // Cast the Thread.CurrentPrincipal
    IClaimsPrincipal icp = Thread.CurrentPrincipal as IClaimsPrincipal;
    // Access IClaimsIdentity which contains claims IClaimsIdentity claimsIdentity = (IClaimsIdentity)icp.Identity;
    // Access claims
    foreach(Claim claim in claimsIdentity.Claims)
    {
    }
}
```

References: <https://msdn.microsoft.com/en-us/library/ee517271.aspx>

#### NEW QUESTION 217

You are developing a new ASP.NET MVC application that will be hosted on Microsoft Azure. You need to implement caching.

The caching solution must support the following:



- The cache must be able to store out-of-process ASP.NET session state.
- The cache must be able to store a variety of data types.
- The cache must offer a large amount of space for cached content.
- You must be able to share output cache content across web server instances.

You need to select a cache solution.  
 Which caching solution should you choose?

- A. ASP.NET Caching
- B. Azure In-Role Cache
- C. Azure Redis Cache
- D. Azure Managed Cache Service

**Answer:** C

#### NEW QUESTION 219

You are developing an ASP.NET Core application. You plan to use YAML as the configuration language. You create a custom YAML configuration parser. You need to implement a mechanism to support reading and applying these YAML configurations. How should you complete the code? To answer, drag the appropriate code segments to the correct locations. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.  
 NOTE: Each correct selection is worth one point.

#### Code segments

- DictionaryConfigurationSource
- JsonConfigurationSource
- JsonConfigurationProvider
- FileConfigurationSource
- FileConfigurationProvider

#### Answer area

```
public class YamlConfigurationSource : Code segment
{
    public override IConfigurationProvider Build(IConfigurationBuilder builder)
    {
        FileProvider = FileProvider ?? builder.GetFileProvider();
        return new YamlConfigurationProvider(this);
    }
}
```

**Answer:**

**Explanation:**

#### Code segments

- DictionaryConfigurationSource
- JsonConfigurationSource
- JsonConfigurationProvider
- FileConfigurationSource
- FileConfigurationProvider

#### Answer area

```
public class YamlConfigurationSource : FileConfigurationSource
{
    public override IConfigurationProvider Build(IConfigurationBuilder builder)
    {
        FileProvider = FileProvider ?? builder.GetFileProvider();
        return new YamlConfigurationProvider(this);
    }
}
```

#### NEW QUESTION 222

You develop an ASP.NET MVC application that displays Information about products that a company sells. The application contains two classes named ProductController and RouteConfig

You have the following requirements:

- If a value is provided for the Id property, you must display information about an individual product.
- If no value is provided for the Id property, you must display information about all products. You need to configure routing.

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

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

        routes.MapMvcAttributeRoutes();
        routes.MapRoute("product", "products");
        routes.Add(new Route("Products", new PageRouteHandler("Products")));
        routes.MapPageRoute("products", "products", "ProductController.cs", true);
    }
}

[RoutePrefix("products")]
public class ProductController : Controller
{
    [Route]
    public ActionResult Index()
    {
        return View();
    }

    [Route]
    public ActionResult Id()
    {
        return View("Products", ProductModel.GetProducts());
    }

    [Route("Id")]
    public ActionResult Id()
    {
        return View("Products", ProductModel.GetProduct(Id));
    }

    [Route("Id?")]
    public ActionResult Id()
    {
        return View("Products", ProductModel.GetProducts());
    }
}
```

**Answer:**

**Explanation:**

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

        routes.MapMvcAttributeRoutes();
        routes.MapRoute("product", "products");
        routes.Add(new Route("Products", new PageRouteHandler("Products")));
        routes.MapPageRoute("products", "products", "ProductController.cs", true);
    }
}

[RoutePrefix("products")]
public class ProductController : Controller
{
    [Route]
    public ActionResult Index()
    {
        return View();
    }

    [Route]
    public ActionResult Id()
    {
        return View("Products", ProductModel.GetProducts());
    }

    [Route("Id")]
    public ActionResult Id()
    {
        return View("Products", ProductModel.GetProduct(Id));
    }

    [Route("Id?")]
    public ActionResult Id()
    {
        return View("Products", ProductModel.GetProducts());
    }
}
```

#### NEW QUESTION 224

You are developing an ASP.NET Core MVC web application.

The application includes a C# type named InsuranceID that represents an insurance policy identifier for a customer. Each instance of InsuranceID is five alphanumeric characters followed by a dash and then four numbers (for example, ab12x-2323).

You need to ensure that Controller actions can accept values of type InsuranceID.

What are two possible ways to achieve this goal? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. Implement the IBinderTypeProviderMetadata interface.
- B. Implement the IModelBinder interface.
- C. Use a TypeConverter object.
- D. Implement the IBindingSourceMetadata interface.
- E. Implement the ITypeComp interface.

**Answer:** AC

#### NEW QUESTION 226

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

You have the following requirements:

- You must allow all users to access the GetOrders method.
- You must restrict access to the EditOrder method to the user named OrderAdmin.

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(Roles = "Anonymous")]`

```
public class OrderController : Controller
{
    public ActionResult GetOrders()
    {
        ...
        return View();
    }

    [Authorize(Users = "OrderAdmin")]
    public ActionResult EditOrder()
    {
        ...
        return View();
    }
}
```

B. `[Authorize]`

```
public class OrderController : Controller
{
    [AllowAnonymous]
    public ActionResult GetOrders()
    {
        ...
        return View();
    }

    [Authorize(Users = "OrderAdmin")]
    public ActionResult EditOrder()
    {
        ...
        return View();
    }
}
```

C. `[Authorize]`

```
public class OrderController : Controller
{
    [Authorize(Roles="Anonymous")]
    public ActionResult GetOrders()
    {
        ...
        return View();
    }

    [Authorize(Users = "OrderAdmin")]
```



```
public ActionResult EditOrder()
{
    ...
    return View();
}
```

**D.** `[Authorize]`

```
public class OrderController : Controller
{
    [AllowAnonymous]
    public ActionResult GetOrders()
    {
        ...
        return View();
    }

    [Authorize]
    public ActionResult EditOrder()
    {
        if (this.HttpContext.User.Identity.Name != "OrderAdmin")
        {
            return RedirectToAction("Login", "Account", new
            { ReturnUrl = "/Order/EditOrder" });
        }
        else
        {
            ...
            return View();
        }
    }
}
```

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

**Answer:** B

**Explanation:** With MVC4 a new attribute has been introduced, namely the `[AllowAnonymous]` attribute. Together with the `[Authorize]` attribute, you can now take a white-list approach instead. The white-list approach is accomplished by dressing the entire controller with the `[Authorize]` attribute, to force authorization for all actions within that controller. You can then dress specific actions, that shouldn't require authorization, with the `[AllowAnonymous]` attribute, and thereby white-listing only those actions. With this approach, you can be confident that you don't, by accident, forget to dress an action with the `[Authorize]`, leaving it available to anyone, even though it shouldn't.

References:

<http://stackoverflow.com/questions/9727509/how-to-allow-an-anonymous-user-access-to-some-given-page-in-m>

#### NEW QUESTION 231

You have a class that includes the following code. (Line numbers are included for reference only.)

```
01
02 public class EmployeeController : Controller
03 {
04     public ActionResult Index()
05     {
06         return View();
07     }
08     [HttpPost]
09     [ValidateAntiForgeryToken]
10
11     public ActionResult Create(IFormCollection collection)
12     {
13         . . .
14     }
15     [HttpPost]
16     [ValidateAntiForgeryToken]
17
18     public ActionResult Edit(int id, IFormCollection collection)
19     {
20         . . .
21     }
22 }
```

You must enforce the following requirements for the actions:

Action	Comments
Edit	Only users that are assigned to either the HR-Administrator role or the Global-Administrator role are permitted to call this action.
Create	Only users that are assigned to both the HR-Administrator role and the Global-Administrator role are permitted to call this action.
Index	All authorized users must be able to call this action.

You need to configure the class.

Which three actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A Add the following code segment at line 17:  

```
[Authorize (Roles = "HR-Administrator")]
```

```
[Authorize (Roles = "Global-Administrator")]
```
- B Add the following code segment at line 1:  

```
[Authorize]
```
- C Add the following code segment at line 10:  

```
[Authorize (Roles = "HR-Administrator, Global-Administrator")]
```
- D Add the following code segment at line 1:  

```
[Authorize (Roles = "HR-Administrator")]
```

```
[Authorize (Roles = "Global-Administrator")]
```
- E Add the following code segment at line 17:  

```
[Authorize (Roles = "HR-Administrator, Global-Administrator")]
```
- F Add the following code segment at line 10:  

```
[Authorize (Roles = "HR-Administrator")]
```

```
[Authorize (Roles = "Global-Administrator")]
```

- A. Option A  
 B. Option B  
 C. Option C  
 D. Option D  
 E. Option E  
 F. Option F

**Answer:** BEF

**Explanation:** References: <https://docs.microsoft.com/en-us/aspnet/core/security/authorization/roles?view=aspnetcore-2.1>

#### NEW QUESTION 234

You are developing an ASP.NET Core web application in Microsoft Visual Studio. The project uses a file named package.json in reusable packages.

You must automate the build process to use a script minification strategy. Script minification must happen in parallel.

You need to ensure you can share and distribute packages and run the minification strategy.

Which tools should you use? To answer, drag the appropriate tools to the correct scenarios. Each tool may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

#### Tools

- Bower
- NuGet
- Gulp
- Node package manager

#### Answer area

##### Scenario

Execute processes in parallel.

Distribute packages.

##### Tool

Tool

Tool

**Answer:**



**Explanation:** References:

<https://docs.microsoft.com/en-us/aspnet/core/client-side/using-gulp?view=aspnetcore-2.1>

#### NEW QUESTION 236

You are developing an ASP.NET MVC application that enables you to edit and save a student object. The application must not retrieve student objects on an HTTP POST request.

You need to implement the controller.

Which code segment should you use? (Each correct answer presents a complete solution. Choose all that apply.)

- ☐ A. 

```
public ActionResult EditStudent(int id, Student s)
{
    if (this.HttpContext.Request.RequestType == "GET")
    {
        var s = RetrieveStudent(id);
    }

    if (this.HttpContext.Request.RequestType == "POST")
    {
        SaveStudent(s);
    }
    return View(s);
}
```
- ☐ B. 

```
public ActionResult EditStudent(int id, Student s)
{
    if (this.HttpContext.Request["ActionName"] == "GET")
    {
        var s = RetrieveStudent(id);
    }

    if (this.HttpContext.Request["ActionName"] == "POST")
    {
        SaveStudent(s);
    }
    return View(s);
}
```
- ☐ C. 

```
[HttpGet]
public ActionResult EditStudent(int id)
{
    var s = RetrieveStudent(id);
    return View(s);
}

[HttpPost]
public ActionResult EditStudent(int id, Student s)
{
    SaveStudent(s);
    return View(s);
}
```
- ☐ D. 

```
[ActionName("GET")]
public ActionResult EditStudent(int id)
{
    var s = RetrieveStudent(id);
    return View(s);
}

[ActionName("POST")]
public ActionResult EditStudent(int id, Student s)
{
    SaveStudent(s);
    return View(s);
}
```

A. Option A

B. Option B

C. Option C

D. Option D

**Answer:** AC

#### NEW QUESTION 237

You are building an ASP.NET application. You develop the following unit test code. Line numbers are included for reference only.

```
1 [TestClass]
2 public class UnitTest1
3 {
4     protected string _name;
5     protected float _expenses;
6     protected float _income;
7     protected float _payment;
8     protected float _balance;
9     public void AddCustomer(string name, float income, float payment, float balance)
10 {
11     _name = name;
12     _expenses = expenses;
13     _income = income;
14     _payment = payment;
15     _balance = balance;
16     CheckName();
17     DebRatio();
18 }
```

```
18 CheckBalance();
19 }
20 [TestMethod]
21 public void CheckName() 22 {
23 Assert.IsNotNull(_name, "CheckName failed unit test"); 24 }
25 [TestMethod]
26 public void DebRatio() 27 {
28 Assert.AreSame(_income, _payment, "DebRatio failed unit test"); 29 }
30 [TestMethod]
31 public void CheckBalance() 32 {
33 Assert.IsTrue(_balance >= 0.0f, Check balance failed unit test."); 34 }
35}
```

You run the following line of code: AddCustomer("Contoso", 0, 100, 100, -1);  
You need to evaluate the unit test results. For each of the following statements, select Yes if the statement is true. Otherwise, select No.

Answer Area	Yes	No
The assertion at Line 23 will pass.	<input type="radio"/>	<input type="radio"/>
The assertion at Line 28 will pass.	<input type="radio"/>	<input type="radio"/>
The assertion at Line 33 will pass.	<input type="radio"/>	<input type="radio"/>

Answer:

**Explanation:** Box 1: Yes  
Line 23 is Assert.IsNotNull(\_name, "CheckName failed unit test");  
\_name is "Contoso" so the assertion will succeed. Box 2: No  
Line 289 is Assert.AreSame(\_income, \_payment, "DebRatio failed unit test");  
\_income is 0 and payment is 100. The assertion will fail. Box 3: No  
Line 33 is Assert.IsTrue(\_balance >= 0.0f, Check balance failed unit test.");  
\_balance is -1. The assertion will fail.

NEW QUESTION 239

DRAG DROP

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.)

DefaultDisplayMode("WP7")

("Windows Phone OS",

StringComparison.OrdinalIgnoreCase

DefaultDisplayMode("Mobile")

("Mobile",

AreaRegistration.RegisterAllDevices();

protected void Application\_Start()

{

DisplayModeProvider.Instance.Modes.Insert(0, new

{

ContextCondition = (context =>

context.GetOverriddenUserAgent().IndexOf

) >= 0)

});

AreaRegistration.RegisterAllAreas();

**Answer:**

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

#### NEW QUESTION 244

You are developing an ASP.NET MVC application that uses forms authentication. The application uses SQL queries that display customer order data. You need to prevent all SQL injection attacks against the application. How should you secure the queries?

- A. Implement parameterization.
- B. Pattern check the input.
- C. Filter out prohibited words in the input.
- D. Escape single quotes on string-based input parameters.

**Answer:** A

**Explanation:** With most development platforms, parameterized statements that work with parameters can be used (sometimes called placeholders or bind variables) instead of embedding user input in the statement. A placeholder can only store a value of the given type and not an arbitrary SQL fragment. Hence the SQL injection would simply be treated as a strange (and probably invalid) parameter value.

References:

#### NEW QUESTION 246

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some questions sets might have more than one correct solution, while others might not have a correct solution.

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

You develop an ASP.NET web application that is self-hosted using Open Web Interface for .NET (OWIN) in a Microsoft Azure Worker role.

The web application throws exceptions. You need to resolve the exceptions.

Solution: Reference System.Web.dll to run in a custom host. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

#### NEW QUESTION 249

You plan to deploy an ASP.NET Core MVC web application to a Docker container. The root folder for the web application folder has a Windows PowerShell script named publish.ps1. The script contains the following code:



```
param ([string] $buildConfig)

$env: BuildType = $buildConfig

dotnet publish -c $buildConfig

docker build -t app.
```

You need to ensure that the Docker container can be deployed.  
How should you complete the code? To answer, drag the appropriate code segments to the correct locations. Each code segment may be used once, more than once or not at all. You may need to drag the split bar between panes or scroll to view content.  
NOTE: Each correct selection is worth one point.

Code segments		Answer area
aspnetcore	dotnet	FROM Microsoft/ Code segment
nanoserver	{BuildType}\$	WORKDIR /app
{env: BuildType}\$	env: BuildType\$	EXPOSE 80
docker		COPY bin\ Code segment \PublishOutput .
		ENTRYPOINT [ " Code segment " ,"WebApplication.dll" ]

Answer:

**Explanation:** Example:  
FROM microsoft/aspnetcore WORKDIR /app  
COPY --from=builder /app . ENTRYPOINT ["dotnet", "myapp.dll"] Box 1: aspnetcore  
From the DockerFile, you specify what base Docker image you'll be using (like using "FROM microsoft/dotnet:1.0.0-core").  
Box 2: env:BuildType\$  
Box 3: dotnet

NEW QUESTION 250

You are developing a controller for an ASP.NET MVC application that manages blog postings. The security protection built in to ASP.NET is preventing users from saving their HTML.  
You need to enable users to edit and save their HTML while maintaining existing security protection measures.  
Which code segment should you use?

- A. `[ValidateInput(true)]`  
`public class BlogController : Controller`  
`{`  
 `public ActionResult SavePosting(BlogPosting bp)`  
 `{`  
 `SaveBlogPosting(bp);`  
 `return View("ManagePosting");`  
 `}`  
`}`
- B. `public class BlogController : Controller`  
`{`  
 `[ValidateInput(true)]`  
 `public ActionResult SavePosting(BlogPosting bp)`  
 `{`  
 `SaveBlogPosting(bp);`  
 `return View("ManagePosting");`  
 `}`  
`}`
- C. `public class BlogController : Controller`  
`{`  
 `[ValidateInput(false)]`  
 `public ActionResult SavePosting(BlogPosting bp)`  
 `{`  
 `SaveBlogPosting(bp);`  
 `return View("ManagePosting");`  
 `}`  
`}`
- D. `[ValidateInput(false)]`  
`public class BlogController : Controller`  
`{`  
 `public ActionResult SavePosting(BlogPosting bp)`  
 `{`  
 `SaveBlogPosting(bp);`  
 `return View("ManagePosting");`  
 `}`  
`}`

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

**Answer:** C

**Explanation:** Example: ValidateInput at Action Method Level

The user can submit Html for this action method successfully with the following code. `public class HomeController : Controller`

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

```
}  
[ValidateInput(false)] [HttpPost]  
public ActionResult AddArticle(BlogModel blog)  
{  
    if (ModelState.IsValid)  
    {  
    }  
}  
return View();  
}  
}
```

References:

<http://www.dotnettricks.com/learn/mvc/html-submission-by-validateinput-and-allowhtml-attribute-in-mvc4>

#### NEW QUESTION 254

You are designing an MVC web application.

The view must be as simple as possible for designers who do not have a technical background. You need to combine two existing models to meet the requirement. Which component of the MVC framework should you use?

- A. View
- B. View Model
- C. Controller
- D. Model

**Answer:** B

#### NEW QUESTION 258

You develop an ASP.NET MVC application. The application has several Razor views. The application must execute different server-side code for desktop and mobile devices. You need to choose an approach to support mobile devices.

Which two approaches can you use? Each correct answer presents a complete solution.

- A. Use different controllers and view for both desktop and mobile browsers, but render the views using Bootstrap framework.
- B. Create separate areas for desktop and mobile browsers, implementing independent controllers and views for each.
- C. Use the same controllers for both desktop and mobile browsers, but render different views depending on the device type.
- D. Use different controllers and views for both desktop and mobile browsers, but render the views with the same Razor layout depending on the device type.

**Answer:** AC

**Explanation:** How ASP.NET MVC applications can present mobile-specific pages

Since the Model-View-Controller pattern decouples application logic (in controllers) from presentation logic (in views), you can choose from any of the following approaches to handling mobile support in server-side code:

References:

<https://docs.microsoft.com/en-us/aspnet/whitepapers/add-mobile-pages-to-your-aspnet-web-forms-mvc-applicat>

#### NEW QUESTION 263

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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

You develop an ASP.NET web application that is self-hosted using Open Web Interface for .NET (OW1N) in a Microsoft Azure Worker role.

The web application throws exceptions. You need to resolve the exceptions.

Solution: Change the application startup code to debug the OWIN pipeline. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

#### NEW QUESTION 267

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some questions sets might have more than one correct solution, while others might not have a correct solution.

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

You develop an ASP.NET web application that is self-hosted using Open Web Interface for .NET (OWIN) in a Microsoft Azure Worker role.

The web application throws exceptions. You need to resolve the exceptions.

Solution: Use standard HttpModule and HttpHandler types. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:** Note: Open Web Interface for .NET (OWIN) defines an abstraction between .NET web servers and web applications. OWIN decouples the web application from the server, which makes OWIN ideal for self-hosting a web application in your own process, outside of IIS—for example, inside an Azure worker role.

#### NEW QUESTION 268

You need to enable client-side validation for an ASP.NET MVC application.



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

- A. Attach a custom validation attribute to the model properties that the view uses.
- B. Reference the jquery, jquery.validate and jquery.validate.unobtrusive script files in the view.
- C. Open the web.config file at the project root, and set the values of the ClientValidationEnabled and UnobtrusiveJavaScriptEnabled keys to True.
- D. For each form element, use the Validator.element() method to validate each item.
- E. Add data annotations to the model properties that the view uses.

**Answer:** BCE

**Explanation:** B: The validation can be implemented using jQuery and jQuery validation plug-in (jquery.validate.min.js and jquery.validate.unobtrusive.min.js).  
C: When you are developing an MVC application in Visual Studio 2012 then the client-side becomes enabled by default, but you can easily enable or disable the writing of the following app setting code snippet in the web.config file.

```
<configuration>
<appSettings>
<add key="ClientValidationEnabled" value="true" />
<add key="UnobtrusiveJavaScriptEnabled" value="true" />
</appSettings>
</configuration>
```

E: The jQuery validation plug-in takes advantage of the Data Annotation attributes defined in the model, which means that you need to do very little to start using it.  
References:

### NEW QUESTION 273

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

### NEW QUESTION 275

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some questions sets might have more than one correct solution, while others might not have a correct solution.

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

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

You need to handle the proprietary data format.

Solution: Add a custom formatter class to the Web API and implement the IInputFormatter interface. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** A

**Explanation:** References:

<https://docs.microsoft.com/en-us/aspnet/core/web-api/advanced/custom-formatters?view=aspnetcore-2.1> <https://www.c-sharpcorner.com/article/custom-formatters-in-asp-net-core-mvc-web-api/>

### NEW QUESTION 279

DRAG DROP

You plan a new ASP. NET MVC application.

The application uses the Model-View Controller (MVC) pattern to separate the modeling of the domain, the presentation, and the actions. This separation is based on user input into three separate classes.

You need to diagram the structural relationship between the three classes.

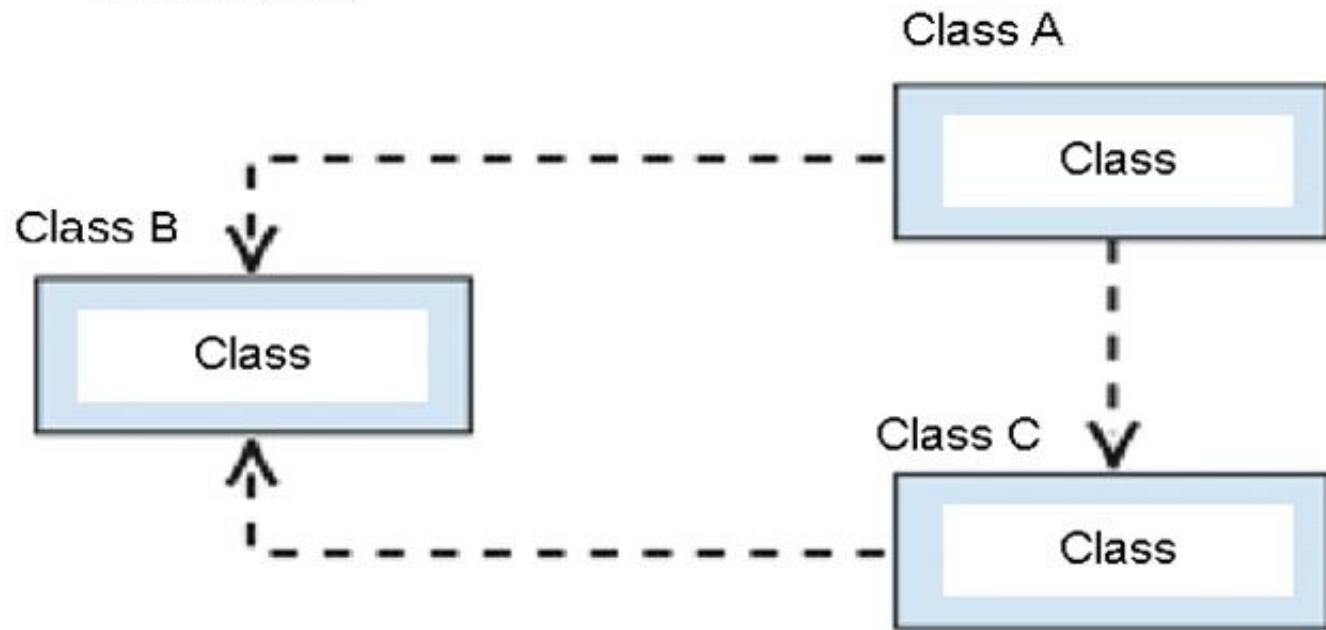
What should you do? To answer, drag the appropriate class to the correct location or locations. Each class name may be used once, more than once, or not at all.

You may need to drag the split bar between panes or scroll to view content.

## Classes

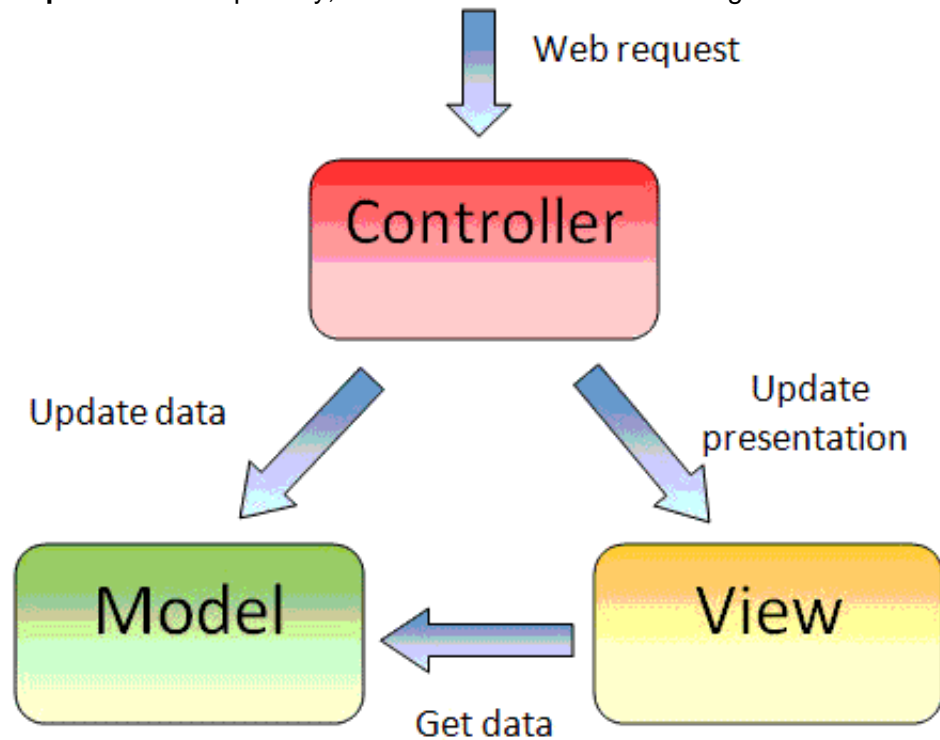
- model
- view
- controller
- viewmodel
- client
- server

## Answer Area



**Answer:**

**Explanation:** Graphically, MVC can be shown like on image bellow:



References:

<http://www.beansoftware.com/ASP.NET-Tutorials/Intro-ASP.NET-MVC.aspx>

### NEW QUESTION 284

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some questions sets might have more than one correct solution, while others might not have a correct solution.

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

You develop an ASP.NET web application that is self-hosted using Open Web Interface for .NET (OWIN) in a Microsoft Azure Worker role.

The web application throws exceptions. You need to resolve the exceptions.

Solution: Change the HTTP Endpoints to use port 80. Does the solution meet the goal?

- A. Yes
- B. No

**Answer: A**

### NEW QUESTION 287

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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

You are developing an ASP.NET Core MVC web application. The landing page of the application contains over 100 small JPEG images, including many images that have embedded

Mobile device users report performance issues when loading the landing page. You debug the application and determine that the number of HTTP requests is causing the issue.

You need to improve the performance of the landing page.

Solution: Convert all images to JPEG with a high compression ratio.

- A. Yes
- B. No

**Answer: B**





#### NEW QUESTION 293

You are developing an ASP.NET MVC application that will run in a shared environment.

The application requests the user's password, and then uses the password to sign data.

You need to minimize the potential for the password to be discovered by other processes that run in the shared environment. What should you do?

- A. Add the SecuritySafeCriticalAttribute attribute to the methods which process the password.
- B. Store the password in a SecureString instance.
- C. Encrypt the password on the web page, and decrypt the password in the MVC application.
- D. Run the code that processes the password in its own AppDomain.

**Answer:** D

**Explanation:** Application domains provide a unit of isolation for the common language runtime. They are created and run inside a process. Application domains are usually created by a runtime host, which is an application responsible for loading the runtime into a process and executing user code within an application domain. The runtime host creates a process and a default application domain, and runs managed code inside it. Runtime hosts include ASP.NET, Microsoft Internet Explorer, and the Windows shell.

For most applications, you do not need to create your own application domain; the runtime host creates any necessary application domains for you. However, you can create and configure additional application domains if your application needs to isolate code or to use and unload DLLs.

References: [https://msdn.microsoft.com/en-us/library/yb506139\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/yb506139(v=vs.110).aspx)

#### NEW QUESTION 298

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?

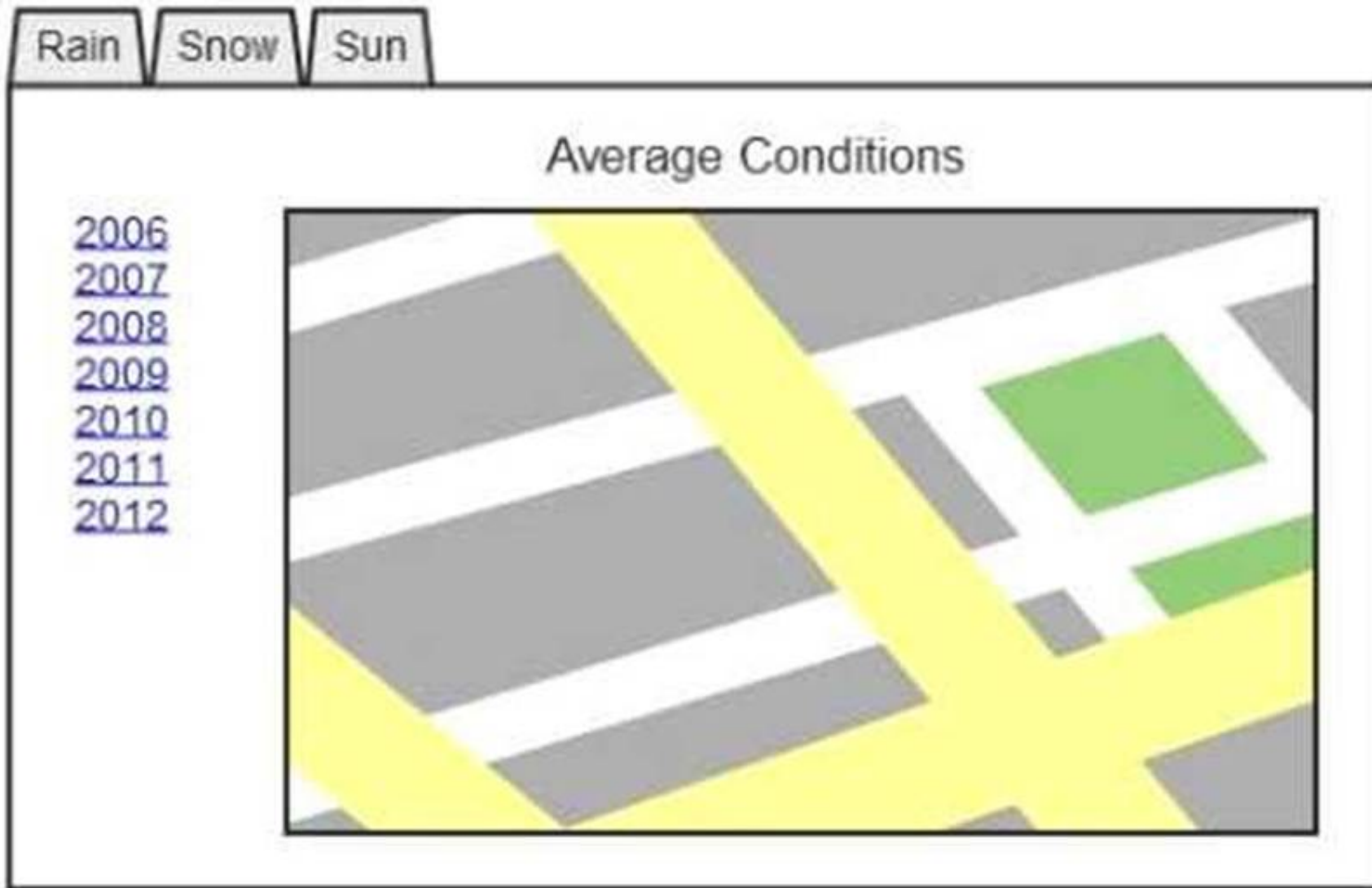
- ☐ A. `[TestMethod()]`  
`public void GoldMinedTest()`  
`{`  
`double currentGold = 175.05;`  
`double newlyMinedGold = 76.03;`  
`double totalGold = 251.08;`  
`double result = 0.00;`  
  
`result = GoldMined(currentGold, newlyMinedGold);`  
`Assert.IsTrue(totalGold, result);`  
`}`
- ☐ B. `[TestMethod()]`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

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

Answer: D

### NEW QUESTION 301

You are implementing a website redesign of an existing website that provides historical weather condition maps. The current layout resembles the graphic in the exhibit. (Click the Exhibit button.)



Year selection is implemented as a set of links, which causes the page to reload when the user changes the year. The year selection HTML is contained in a div with an id of "year-selector".

You need to modify the page so that the user can change the year without the page reloading. You also need to ensure that there is minimal change to the design of the page.

Which code segment should you use?

- ☐ A. 

```
$("#year-selector").slider({
  orientation: "vertical",
  range: { 2006: 2012 },
  step: 1,

});
```
- ☐ B. 

```
$("#year-selector").datepicker({
  yearRange: { 2000:2010 },
  constrainInput: false,
  stepMonths: 12

});
```
- ☐ C. 

```
$("#year-selector").datepicker({
  numberOfMonths: 6 * 12,
  showButtonPanel: true,
  constrainInput: true,
  stepMonths: 3

});
```
- ☐ D. 

```
$("#year-selector").slider({
  orientation: "vertical",
  min: 2006,
  max: 2012,
  step: 1,

});
```

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

Answer: D

**Explanation:** HTML5 slider contains min and max properties:



\* min Minimum value of the range. Default minimum value is 0.

\* maxMaximum value of the range. Default maximum value is 100. Incorrect:

Not A: HTML5 slider contains "range" property, but it used for enabling and configuring range selection in slider, not for setting min and max possible values.

References:

<http://www.html5tutorial.info/html5-range.php>

### NEW QUESTION 302

DRAG DROP

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

The application must:

- Use Windows Identity Foundation 4.5.
- Support the Windows Azure Access Control Service.

You need to implement authentication.

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

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

```

**Answer:**

**Explanation:** Box 1: IClaimsIdent

Box 2: ClaimType

Box 3: ClaimTypes

Box 4: ClaimType Similar example:

For Box 1, see line 15.

For Box 2, see line 22.

For Box 3, see line 22.

For Box 4, see line 26.

1 using System;

2 using System.Collections.Generic;

3 using System.Linq;

```
4 using System.Web;
5 using Microsoft.IdentityModel.Claims;
06
7 namespace MVC3MixedAuthenticationSample.Models
8 {
9 public class IdentityClaim 10 {
11 private string _identityProvider; 12 private string _identityValue;
13 public const string ACSPProviderClaim ="
http://schemas.microsoft.com/accesscontrolservice/2010/07/claims/identityprovider";
14
15 public IdentityClaim(IClaimsIdentity identity) 16 {
17
18 if (identity != null) 19 {
20 foreach (var claim in identity.Claims) 21 {
22 if (claim.ClaimType == ClaimTypes.NameIdentifier)
23 {
24 _identityValue = claim.Value; 25 }
26 if (claim.ClaimType == ACSPProviderClaim) 27 {
28 _identityProvider = claim.Value; 29 }
30
31 }
32 }
33
34 }
```

**NEW QUESTION 307**

You are developing an ASP.NET MVC application that supports multiple cultures and multiple languages. The application will be sold to international customers. The ASP.NET MVC application must store localized content in satellite assemblies for multiple languages. You need to generate the satellite assemblies during an automated build.

Which tool should you use?

- A. Gacutil.exe
- B. Al.exe
- C. Ildasm.exe
- D. nasm.exe

**Answer:** B

**Explanation:** Use the Assembly Linker (Al.exe) to compile .resources files into satellite assemblies. Al.exe creates an assembly from the .resources files that you specify. By definition, satellite assemblies can only contain resources. They cannot contain any executable code. The following Al.exe command creates a satellite assembly for the application MyApp from the file strings.de.resources.

al /t:lib /embed:strings.de.resources /culture:de /out:MyApp.resources.dll References: [https://technet.microsoft.com/en-us/library/21a15yht\(v=vs.85\)](https://technet.microsoft.com/en-us/library/21a15yht(v=vs.85))

**NEW QUESTION 310**

You are developing an application that uses ASP.NET Core Identity for authorization. The application must use an existing Microsoft Azure Table Storage instance to store user information. You create a custom UserStore class.

You need to register the class as a dependency.

Which two interfaces should you implement? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. IUserSecurityStampStore
- B. IUserLoginStore
- C. IQueryableUserStore
- D. IUserStore
- E. IUserPasswordStore

**Answer:** BD

**Explanation:** D: Create a UserStore class that provides the methods for all data operations on the user. This class is equivalent to the UserStore class. In your UserStore class, implement IUserStore<TUser> and the optional interfaces required. You select which optional interfaces to implement based on the functionality provided in your app.

Interfaces to implement when customizing user store References:

<https://docs.microsoft.com/en-us/aspnet/core/security/authentication/identity-custom-storageQQ-providers?view>

**NEW QUESTION 315**

DRAG DROP

You are developing an ASP.NET MVC application in Visual Studio 2012. The application will be viewed with browsers on desktop devices and mobile devices. The application uses the Razor View Engine to display data.

The application contains two layouts located in the /Views/Shared directory. These layouts are named:

- \_Layout.cshtml
- \_MobileLayout.cshtml

The application must detect if the user is browsing from a mobile device. If the user is browsing from a mobile device, the application must use the \_MobileLayout.cshtml file. If the user is browsing from a desktop device, the application must use .Layout, cs html.

You need to ensure that the application renders the layout that is appropriate for the browser. You have the following code:

```
@{
    if (Target 1)
    { Target 2;
    }
    else
    {
        Target 3;
    }
}
```

Which code segments should you include in Target 1, Target 2 and Target 3 to complete the code of the ViewStart.cshtml file? (To answer, drag the appropriate code segments 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.)

Segments

Layout = "~/Views/Shared/\_Layout.cshtml";

Layout = "~/Views/Shared/\_MobileLayout.cshtml";

Request.Browser.IsBrowser("MobileDevice")

Request.Browser.IsMobileDevice

Layout = new MasterPage("\_Layout.cshtml")

Layout = new MasterPage("\_MobileLayout.cshtml")

Answer area

Target 1:

Segment

Target 2:

Segment

Target 3:

Segment

Answer:

Explanation:

Segments

Layout = "~/Views/Shared/\_Layout.cshtml";

Layout = "~/Views/Shared/\_MobileLayout.cshtml";

Request.Browser.IsBrowser("MobileDevice")

Request.Browser.IsMobileDevice

Layout = new MasterPage("\_Layout.cshtml")

Layout = new MasterPage("\_MobileLayout.cshtml")

Answer area

Target 1:

Request.Browser.IsMobileDevice

Target 2:

Layout = "~/Views/Shared/\_MobileLayout.cshtml";

Target 3:

Layout = "~/Views/Shared/\_Layout.cshtml";

NEW QUESTION 317

You are preparing for the deployment of an ASP.NET MVC application. You need to generate a deployment manifest. Which command-line tool should you use?

- A. Mage.exe
- B. Ngen.exe
- C. ALexe
- D. Resgen.exe

Answer: A

**Explanation:** The Manifest Generation and Editing Tool (Mage.exe) is a command-line tool that supports the creation and editing of application and deployment manifests.

Incorrect:

Not B: The Native Image Generator (Ngen.exe) is a tool that improves the performance of managed applications. Ngen.exe creates native images

Not C: AL.exe generates a file with an assembly manifest, not a deployment manifest, from one or more files that are either resource files or Microsoft intermediate language (MSIL) files.

Not D: Resgen.exe, the Resource File Generator, converts text (.txt or .restext) files and XML-based resource format (.resx) files to common language runtime binary (.resources) files that can be embedded in a runtime binary executable or compiled into satellite assemblies.

References:

<http://www.devcurry.com/2011/02/important-net-framework-40-command-line.html>



### NEW QUESTION 322

#### HOTSPOT

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. You have the following code:

```
var response = context.HttpContext.Response;
var request = context.HttpContext.Request;
Target 1
if (canProcess)
{
    response.Clear();
    Target 2
    Target 3
    response.WriteFile(context.HttpContext.Server.MapPath(Path));
}
```

Which code segments should you include in Target 1, Target 2 and Target 3 to implement the ExecuteResult method? To answer, select the appropriate option or options in the answer area.

### Answer Area

Target 1:

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

Target 2:

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

Target 3:

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

**Answer:**

**Explanation:** Target 1:

Name: AcceptTypes

Synopsis: stringArray = Request.AcceptTypes

Returns a String array containing the Multipurpose Internet Mail Extension (MIME) types accepted by the client. You can use this property to determine whether a client can accept certain response types, including application types such as Word or Excel, which are supported only by Internet Explorer.

Target 2, Target 3:

Example: Response.AddHeader("content-disposition", "attachment; filename=MyExcelFile.xls"); Response.ContentType = "application/ms-excel";

### NEW QUESTION 327

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

**Explanation:** ASP.NET session state service provides a somewhat slower service than the in-process variant as we need to make calls to a remote server. All session data is stored in memory so shutting down the state machine will wipe out all session data as well.

Incorrect:

Not D: The InProc option is particularly dangerous in a web farm environment. For example imagine one farm machine which stores the session state but not the other. Subsequent web requests from the same user may not read the correct session state.

References: <https://dotnetcodr.com/2013/07/01/web-farms-in-net-and-iis-part-5-session-state-management/>

### NEW QUESTION 331

#### HOTSPOT

You are optimizing an Internet-facing website for search engine optimization.

You are reading a Site Analysis Report from the SEO Toolkit. The report returns warnings that indicate the website HTML lacks key information necessary for search engine indexing.

You need to improve the optimization of the site.

What should you do? (To answer, select the appropriate option from the drop-down list in the answer area.)

#### Answer Area

Add the <  > tag inside of the <head> section of the page.



The text in the tag should be unique, descriptive an accurate.

Add <  name="  "content="..."> to the <head>




section of the page. The content must be human readable, actionable, and rich in keywords.

**Answer:**

**Explanation:** Answer Area

Add the <  > tag inside of the <head> section of the page.



The text in the tag should be unique, descriptive an accurate.

Add <  name="  "content="..."> to the <head>




section of the page. The content must be human readable, actionable, and rich in keywords.

### NEW QUESTION 332

#### HOTSPOT

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

To set the culture, the application must use the AcceptLanguage header field value sent by the client browser. You need to ensure that the application can set the culture.

You have the following markup in the web.config file:

```
<system.web>
  <Target 1
  Target 2 ="true"
  Target 3 ="auto"
  culture ="auto"
/>
...
```

Which markup segments should you include in Target 1, Target 2 and Target 3 to complete the markup? (To answer, select the appropriate options in the answer area.)

#### Answer Area

Target 1:

Target 2:

Target 3:

**Answer:**

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

Target 1:

Target 2:

Target 3:

#### NEW QUESTION 333

You are designing a distributed application.

The application must store secure information that is specific to an individual user. The data must be automatically purged when the user logs off.

You need to save transient information in a secure data store. Which data store should you use?

- A. Session state
- B. Database storage
- C. Profile properties
- D. Application state

**Answer:** A

**Explanation:** ASP.NET session state enables you to store and retrieve values for a user as the user navigates ASP.NET pages in a Web application. HTTP is a stateless protocol. This means that a Web server treats each HTTP request for a page as an independent request. The server retains no knowledge of variable values that were used during previous requests. ASP.NET session state identifies requests from the same browser during a limited time window as a session, and provides a way to persist variable values for the duration of that session.

References: <https://msdn.microsoft.com/en-us/library/ms178581.aspx>

#### NEW QUESTION 336

You are designing an enterprise-level Windows Communication Foundation (WCF) application. User accounts will migrate from the existing system. The new system must be able to scale to accommodate the increasing load.

You need to ensure that the application can handle large-scale role changes.

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

- A. Resource-based trusted subsystem model
- B. Identity-based approach
- C. Role-based approach
- D. Resource-based impersonation/delegation model

**Answer:** BC

**Explanation:** Advanced Maturity: Authorization as a Service



In the advanced level of maturity for authorization, role storage and management is consolidated and authorization itself is a service available to any solution that is service-enabled.



\* The Trusted Subsystems Model

Once authorization is available as an autonomous service, the need for impersonation is eliminated. Instead of assuming the identity of the user, the application uses its own credentials to access services and resources, but it captures the user's identity and passes it as a parameter (or token) to be used for authorization when a request is made. This model is referred to as the trusted subsystem model, because the application acts as a trusted subsystem within the security domain.

#### NEW QUESTION 339

You are designing an MVC web application.

You need to combine two existing models to create a view. Which MVC component should you use?

- A. View
- B. Controller
- C. Model
- D. ViewModel

**Answer: D**

#### NEW QUESTION 341

DRAG DROP

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

To set the culture, the application must use the AcceptLanguage header field value sent by the client browser. You need to ensure that the application can set the culture.

You have the following markup in the web.config file:

```
<system.web>
  <Target 1
    Target 2 ="true"
    Target 3 ="auto"
    culture ="auto"
  />
  ...
```

Which markup segments should you include in Target 1, Target 2 and Target 3 to complete markup? To answer, drag the appropriate markup segments to the correct targets. Each markup 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.

Markup Segments

configSource

uiCulture

enableClientBasedCulture

siteMap

globalization

Answer Area

Target 1:

Markup Segment

Target 2:

Markup Segment

Target 3:

Markup Segment

Answer:

**Explanation:** Target1: globalization  
Target2: enableClientBasedCulture Target3: uiCulture  
When the EnableClientBasedCulture property is enabled, the Culture and UICulture properties are based on the AcceptLanguage header field value that is sent by the client browser. If the AcceptLanguage header value cannot be mapped to a specific culture, the Culture and UICulture values are used. The default value is false.  
The following combination of attributes is used in the globalization section: culture="auto", uiCulture="auto", enableClientBasedCulture="true", e.g.:  
<globalization uiCulture="auto" culture="auto" enableClientBasedCulture="true"> References:

NEW QUESTION 342  
.....

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