

**QUESTION: 14**

**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:

Target 2:

Target 3:

**Answer:**

Exhibit

**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:

Target 2:

Target 3:

**QUESTION: 15**

You are developing an ASP.NET MVC application that uses forms authentication against an Oracle database. You need to authenticate the users. Which code segment should you use?

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- ☐ A. 

```
public class OracleMembershipProvider : ProviderBase
{
    ...
}
```
- ☐ B. 

```
public class OracleMembershipProvider : ClientFormsMembershipProvider
{
    ...
}
```
- ☐ C. 

```
public class OracleMembershipProvider : SqlMembershipProvider
{
    ...
}
```
- ☐ D. 

```
public class OracleMembershipProvider : MembershipProvider
{
    ...
}
```

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

**Answer:** D

**Explanation:**

When implementing a custom membership provider, you are required to inherit the Membership Provider abstract class. There are two primary reasons for creating a custom membership provider. You need to store membership information in a data source that is not supported by the membership providers included with the .NET Framework, such as a FoxPro database, an Oracle database, or other data source. You need to manage membership information using a database schema that is different from the database schema used by the providers that ship with the .NET Framework. A common example of this would be membership data that already exists in a SQL Server database for a company or Web site.

**QUESTION:** 16

**HOTSPOT**

You are developing an ASP.NET MVC application to display product information. The application has two views. The first view displays a list of product names. When you

select a product name, the second view shows detailed information for the product that is selected. The product detail view receives a query string value that contains as identifier for the product that is selected. The product controller for the application has the following requirements:

- The product list and product details must use output caching.
- The list of products must be cached daily.
- The product details view must cache data for one hour, based on the product that is selected.

You need to implement the product controller. How should you complete the relevant code? To answer, select the appropriate code from each list in the answer area.

```
Public class ProductsController : Controller
```

```
{  
    private readonly ProductDataContext _dataContext;  
    public ProductsController()  
    {  
        _dataContext = new ProductDataContext();  
    }  
}
```

	▼
[OutputCache(Duration = 1)]	
[OutputCache(Duration = 24, VaryByParam = "**")]	
[OutputCache(Duration = 86400, VaryByParam = "none")]	
[OutputCache(Duration = int.MaxValue, NoStore = false)]	

```
public ActionResult GetProductList()  
{  
    ViewData.Model = (from p in _dataContext.Products select  
p).ToList();  
    return View();  
}
```

	▼
[OutputCache(Duration = 1, VaryByParam = "id")]	
[OutputCache(Duration = 60, VaryByParam = "**")]	
[OutputCache(Duration = 3600, VaryByParam = "id")]	
[OutputCache(NoStore = false, VaryByParam = "id")]	

```
Public ActionResult GetProductDetails(int id)  
{  
    ViewData.Model = _dataContext.Products.SingleOrDefault(p =>  
p.Id == id);  
    return View();  
}  
}
```

**Answer:**

Exhibit

```
Public Class ProductsController : Controller
```

```
{  
    private readonly ProductDataContext _dataContext;  
    public ProductsController()  
    {  
        _dataContext = new ProductDataContext();  
    }  
}
```

▼
[OutputCache(Duration = 1)]
[OutputCache(Duration = 24, VaryByParam = "")]
[OutputCache(Duration = 86400, VaryByParam = "none")]
[OutputCache(Duration = int.MaxValue, NoStore = false)]

```
public ActionResult GetProductList()  
{  
    ViewData.Model = (from p in _dataContext.Products select  
p).ToList();  
    return View();  
}
```

▼
[OutputCache(Duration = 1, VaryByParam = "id")]
[OutputCache(Duration = 60, VaryByParam = "")]
[OutputCache(Duration = 3600, VaryByParam = "id")]
[OutputCache(NoStore = false, VaryByParam = "id")]

```
Public ActionResult GetProductDetails(int id)  
{  
    ViewData.Model = _dataContext.Products.SingleOrDefault(p =>  
p.Id == id);  
    return View();  
}
```

**Explanation:**

Exhibit

```
[OutputCache(Duration = 1)]
[OutputCache(Duration = 24, VaryByParam = "*")]
[OutputCache(Duration = 86400, VaryByParam = "none")]
[OutputCache(Duration = int.MaxValue, NoStore = false)]

public ActionResult GetProductList()
{
    ViewData.Model = (from p in DataContext.Products select
p).ToList();
    return View();
}
```

```
[OutputCache(Duration = 1, VaryByParam = "id")]
[OutputCache(Duration = 60, VaryByParam = "*")]
[OutputCache(Duration = 3600, VaryByParam = "id")]
[OutputCache(NoStore = false, VaryByParam = "id")]
```

Box 1: [OutputCache(Duration = 86400, VaryByParam = "none")]

The list of products must be cached daily. One day is 86400 seconds (60\*60\*24).

Note: The Duration parameter is the time, in seconds, that the page or user control is cached. Setting this attribute on a page or user control establishes an expiration policy for HTTP responses from the object and will automatically cache the page or user control output.

Box 2: [OutputCache(Duration = 3600, VaryByParam = "id")]

The product details view must cache data for one hour, based on the product that is selected. One hour is 3600 seconds (60\* 60).

#### References:

[https://msdn.microsoft.com/en-us/library/hdxfb6cy\(v=vs.100\).aspx](https://msdn.microsoft.com/en-us/library/hdxfb6cy(v=vs.100).aspx)

#### QUESTION: 17

##### DRAG DROP

You are building an ASP.NET MVC web application. The application will be viewed by users on their mobile phones. You need to ensure that the page fits within the horizontal width of the device screens. You have the following markup:

```

<!DOCTYPE html>
<html>
<head>
  <title>@ViewBag.Title</title>
  <Target 1 Target 2 Target 3>
  <link href="@Url.Content("~/Content/Site.css")"
    rel="stylesheet" type="text/css" />
  <script src="@Url.Content("~/Scripts/jquery-1.6.2.min.js")"
    type="text/javascript"></script>
</head>
<body>

```

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

#### Markup Segments

meta

area

#### Markup Segments

name="viewport"

name="scheme"

#### Markup Segments

content="width=device-width"

content="user-scalable"

#### Answer area

Target 1:

Markup segment

Target 2:

Markup segment

Target 3:

Markup segment

**Answer:**

Exhibit

#### Markup Segments

meta

area

#### Markup Segments

name="viewport"

name="scheme"

#### Markup Segments

content="width=device-width"

content="user-scalable"

#### Answer area

Target 1: meta

Target 2: name="viewport"

Target 3: content="width=device-width"

#### QUESTION: 18

##### 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.)

### Markup Segments

meta

area

### Markup Segments

name="viewport"

name="scheme"

### Markup Segments

content="width=device-width"

content="user-scalable"

### Answer area

Target 1: Markup segment

Target 2: Markup segment

Target 3: Markup segment

**Answer:**

Exhibit

### Answer Area

Target 1: 

▼  
configSource  
uiCulture  
enableClientBasedCulture  
siteMap\_  
globalization

Target 2: 

▼  
configSource  
uiCulture  
enableClientBasedCulture |  
siteMap  
globalization

Target 3: 

▼  
configSource  
uiCulture |  
enableClientBasedCulture  
siteMap  
globalization

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**QUESTION: 19**

You are developing an ASP.NET MVC application that uses forms authentication. The application uses SQL queries that display customer order data. Logs show there have been several malicious attacks against the servers. You need to prevent all SQL injection attacks from malicious users against the application. How should you secure the queries?

- A. Check the input against patterns seen in the logs and other records.
- B. Escape single quotes and apostrophes on all string-based input parameters.
- C. Implement parameterization of all input strings.
- D. Filter out prohibited words in the input submitted by the users.

**Answer: C**

**Explanation:**

SQL Injection Prevention, Defense Option 1: Prepared Statements (Parameterized Queries) The use of prepared statements (aka parameterized queries) is how all developers should first be taught how to write database queries. They are simple to write, and easier to understand than dynamic queries. Parameterized queries force the developer to first define all the SQL code, and then pass in each parameter to the query later. This coding style allows the database to distinguish between code and data, regardless of what user input is supplied.

Prepared statements ensure that an attacker is not able to change the intent of a query, even if SQL commands are inserted by an attacker.

**QUESTION: 20**

You are developing an application that uses many small images for various aspects of the interface. The application responds slowly when additional resources are being accessed. You need to improve the performance of the application. What should you do?

- A. Preload all the images when the client connects to ensure that the images are cached.
- B. Combine all the images into a single image and use CSS to create sprites.
- C. Host all images on an alternate server and provide a CDN.
- D. Convert the images to .png file format and stream all images on a single connection.

**Answer: C**

**QUESTION: 21**

**DRAG DROP**

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,   
    {  
        Console.WriteLine("FirstChanceException raised in {0}: {1}",  
              
            AppDomain.  
              
            e.Exception.Message);  
    }  
    static void Main()  
    {  
          
        AppDomain.  
          
        = Handler;  
    }  
}
```

**Answer:**

Exhibit

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#### 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;  
    }  
}
```

#### QUESTION: 22

You are developing an ASP.NET MVC news aggregation application that will be deployed to servers on multiple networks. The application must be compatible with multiple browsers. A user can search the website for news articles. You must track the page number that the user is viewing in search results. You need to program the location for storing state information about the user's search. What should you do?

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

**Answer: C**

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