Microsoft

Exam Questions 70-486

Developing ASP.NET MVC 4 Web Applications
NEW QUESTION 1
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.)

A. Mastered
B. Not Mastered

Answer: A

Explanation:
NEW QUESTION 2
You need to update the routes to ensure that a product is always displayed on the product page. Which code segment should you use?
NEW QUESTION 3
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. Option A
B. Option B
C. Option C
D. Option D

Answer: B
A. Option A
B. Option B
C. Option C
D. Option D

Answer: C

NEW QUESTION 4
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. Option A

B. Option B

C. Option C

D. Option D

Answer: D

NEW QUESTION 5
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

```csharp
if (requestContext.RouteData.Values["VideoAdmin"] == null)
    throw new Exception("VideoAdmin not found");

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

B

```csharp
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

```csharp
if (requestContext.HttpContext.Items["VideoAdmin"] == null)
    throw new Exception("VideoAdmin not found");

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

D

```csharp
var controller = base.CreateController(requestContext, controllerName) as Controller;
var hasFilter = controller.GetType().CustomAttributes.Any(
    x => x.AttributeType.Name == "VideoAdminAttribute");
if (!hasFilter)
    throw new Exception("VideoAdminAttribute not found");

return controller;
```

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

Answer: D

Explanation:
The MemberInfoCustomAttributes 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:
Case Study: 4, Mixed Question s

NEW QUESTION 6
- (Exam Topic 4)
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 7  
- (Exam Topic 4)  
You are developing an ASP.NET Core MVC web application. The application is configured to use a Startup class. The /status action must be tested on each check-in to source control. You need to test the application.

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.

A. Mastered  
B. Not Mastered

Answer: A

Explanation:  
Example: Specify the Startup class with theWebHostBuilderExtensions.UseStartup<TStartup> method:  

```csharp
public class Program
{
    public static void Main(string[] args)
    {
        BuildWebHost(args).Run();
    }
    public static IWebHost BuildWebHost(string[] args) => WebHost.CreateDefaultBuilder(args) UseStartup<Startup>() Build();
}
```

References: https://docs.microsoft.com/en-us/aspnet/core/fundamentals/startup?view=aspnetcore-2.1

NEW QUESTION 8  
- (Exam Topic 4)  
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.  
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 9  
- (Exam Topic 4)
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

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

You 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 text.

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: Combine images into a single image and use CSS sprites.

A. Yes
B. No

Answer: A

NEW QUESTION 10
- (Exam Topic 4)

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")]
   }
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 11**
- (Exam Topic 4)  
**DRAG DROP**
public class CustomEncryptor
{
    public string Encrypt(string plaintext)
    {
        ...
    }
}

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

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

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

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

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

The application must not display AccountNumber in clear text in any URL. You need to build the view for the GetAccounts action. How should you build the view? (To answer, drag the appropriate code segment to the correct location or locations. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)
A. Mastered  
B. Not Mastered  

**Answer:** A  

**Explanation:**

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NEW QUESTION 12
- (Exam Topic 4)
You are designing a distributed application.
The application must store a small amount of information that is shared across all users and does not change frequently.
You need to configure the application to meet the requirements.
Which server-side state management options will achieve the goal? Each correct answer presents a complete solution. Choose all that apply.

A. Database support
B. Profile properties
C. Session state
D. Application state

Answer: AD

Explanation:
A: SQL Database provides a relational database management system for Windows Azure and is based on SQL Server technology. With a SQL Database instance, you can easily provision and deploy relational database solutions to the cloud, and take advantage of a distributed data center that provides enterprise-class availability, scalability, and security with the benefits of built-in data protection and self-healing.
D: Application state is a data repository available to all classes in an ASP.NET application. Application state is stored in memory on the server and is faster than storing and retrieving information in a database. Unlike session state, which is specific to a single user session, application state applies to all users and sessions. Therefore, application state is a useful place to store small amounts of often-used data that does not change from one user to another.

NEW QUESTION 13
- (Exam Topic 4)
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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.cshtml.

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

```csharp
if (Request.Browser.IsMobileDevice)
{
 Target 1;
}
else
{
 Target 2;
}
```

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.)

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 14
- (Exam Topic 4)

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
NEW QUESTION 15  
- (Exam Topic 4)  
You are developing an ASP.NET MVC application that provides instant messaging capabilities to customers. You have the following requirements:

- Messages must be able to be sent and received simultaneously.
- Latency and unnecessary header data must be eliminated.
- The application must comply with HTML5 standards.

You need to design the application to meet the requirements. What should you do?

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

Answer: D

NEW QUESTION 16  
- (Exam Topic 4)  
You develop an ASP.NET MVC application. The application has a controller named PeopleController.cs. The controller has an action method that returns a parent view. The parent view includes the following code. Line numbers are included for the reference only.

```csharp
01 @model PartialView.Models.PersonViewModel
02 @
03 ViewBag.Title = "People";
04 }
05 <div>
06 <h1>People</h1>
07 </div>
08 <div>
09 10 </div>
```

The application also contains a partial view named People. The parent view must display the partial view. You need to add code at line 09 to display the partial view within the parent view.

Which two code segments will achieve the goal? Each correct answer presents a complete solution.

A. @{ Html.RenderPartial("People", Model);}
B. @Html.Partial("People", Model)
C. @Html.Display("People", Model)
D. @Html.Raw("People")

Answer: B

Explanation:
By default, any partial view rendered by calling @Html.Partial("PartialViewName") will get the view model passed to the parent view.

References:

NEW QUESTION 17  
- (Exam Topic 4)  
You are designing a distributed application.

The application must store a small amount of insecure global information that does not change frequently. You need to configure the application to meet the requirements.

Which server-side state management option should you use? (Each correct answer presents a complete solution. Choose all that apply.)

A. Application state
B. Session state
C. Database support
D. Profile properties

Answer: AC

NEW QUESTION 18  
- (Exam Topic 4)  
You are developing an ASP.NET MVC application. The application includes the following HomeController class. Line number are included references only.

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 an 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.

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- (Exam Topic 4)
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C. @Html.Display("People", Model)
D. @Html.Raw("People")

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Explanation:
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The application must store a small amount of insecure global information that does not change frequently. You need to configure the application to meet the requirements.

Which server-side state management option should you use? (Each correct answer presents a complete solution. Choose all that apply.)

A. Application state
B. Session state
C. Database support
D. Profile properties

Answer: AC

NEW QUESTION 18
- (Exam Topic 4)
You are developing an ASP.NET MVC application. The application includes the following HomeController class. Line number are included references only.
During testing, all errors display an ASP.NET error page instead of the expected error view.

A. Replace line 01 with the following code segment: `[HandleError(View="Error")]
B. in the web.config file, set the value of the customErrors property to On.
C. Replace line 01 with the following code: `[HandleError(Exceptiotype=typeof(SystemException))]`
D. Create a custom error page named Error.asp
E. Save the file in the Views\Shared folder for the project.

Answer: D

NEW QUESTION 19
- (Exam Topic 4)
You are developing a .NET Core library that will be used by multiple applications. The library contains ASP.NET Core middleware named EnsureSecurityMiddleware. EnsureSecurityMiddleware must always run prior to other middleware. You need to configure the middleware. 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 pint.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
NEW QUESTION 20
- (Exam Topic 4)
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.
You 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 a standalone Kestrel server. Does the solution meet the goal?
A. Yes
B. No
Answer: B

NEW QUESTION 21
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