

- **Vendor: Microsoft**
- **Exam Code: 70-486**
- **Exam Name: Developing ASP.NET MVC 4 Web Applications**
- **Question 91 -- Question 120**

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QUESTION 91

Hotspot Question

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 {
```

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

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

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

```
}
```

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

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

```
color: #FFF;
```

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

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

```
}
```

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

```
color: #333;
```

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

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

```
}
```

Answer:

```
Work Area

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

ul#nav li {
  float: left;
  background-color: #ffd800;
  background-color: #2da4c2;
  text-decoration: none;

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

  text-align: center;
}

ul#nav li a {
  background-clip: border-box;
  background-color: #2da4c2;
  border-radius: 15px;
  word-wrap: break-word;

  color: #FFF;

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

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

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

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

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

QUESTION 92

You need to maximize performance of video delivery.

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

- A.

```
MemoryStream stream = new MemoryStream();  
  
new GZipStream(System.IO.File.OpenRead(videoId), CompressionMode.Compress).CopyTo  
(stream);  
  
return stream;
```
- B.

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

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

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

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

Answer: D

QUESTION 93

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

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

- A.

```
public override void OnStop()
{
    RoleEnvironment.Stopping += (sender, args) =>
    {
        var task = Process.Start("transcode.exe", "unregister");
        if (task.HasExited)
            base.OnStop();
    };
}
```
- B.

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

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

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

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

Answer: D

QUESTION 94

Drag and Drop Question

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

How should you implement the startup task?

(To answer, drag the appropriate values to the correct element or attribute. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

The screenshot shows a task configuration interface with a sidebar on the left containing buttons for 'Variable', 'Environment', 'foreground', 'background', and 'simple'. The main area displays an XML snippet for a task within a startup task:

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

Answer:

The screenshot shows the same task configuration interface as above, but with the XML snippet completed. The 'simple' button in the sidebar is highlighted, and the XML snippet is:

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

QUESTION 95

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

- A.

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

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

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

```
if (request.Method == HttpMethod.Delete)  
{  
    request.Headers.Add("X-Delete", "true");  
}  
return base.SendAsync(request, cancellationToken);
```

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

Answer: B

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

Background

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

Business Requirements

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

Technical Requirements

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

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

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

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

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

Security

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

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

QUESTION 96

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

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

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

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

Answer: A

QUESTION 97

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

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

Answer: C

QUESTION 98

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

You start by writing the following lines of code:

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

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

Which of the following is the attribute in question?

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

Answer: C

QUESTION 99

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

Which of the following actions should you take?

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

Answer: C

QUESTION 100

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

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

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

Answer: A

QUESTION 101

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

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

Which of the following actions should you take?

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

D. You should consider changing the `_CalculateSpeed.cshtml` view.

Answer: C

QUESTION 102

You have been instructed to meet the business requirements with regards to security. You are required to make changes to the `CyclingLogController`. Which of the following actions should you take?

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

Answer: A

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

Background

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

Business Prerequisites

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

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

Technical Prerequisites

General:

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

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

Storage:

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

Exception handling:

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

Browser and device support:

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

QUESTION 103

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

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

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

Which of the following actions should you take NEXT?

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

Answer: D

QUESTION 104

You have received instructions to make sure that IIS errors are handled in accordance with the prerequisites.
Which of the following actions should you take?

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

Answer: A

QUESTION 105

You have been instructed to write code that creates a method for the ItemController class.
The method must satisfy the prerequisites to handle exceptions related to logging.
Which of the following actions should you take?

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

Answer: C

QUESTION 106

You have received instructions to make sure that the prerequisites with regards to the ItemId are suitably met.
Which of the following actions should you take?

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

Answer: A

QUESTION 107

You are preparing to make sure that the prerequisites for client information management are suitably met.
You start by configuring the Controllers folder to include a class, named ClientController.
Which of the following actions should you take NEXT?

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

Answer: A

QUESTION 108

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

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

Which of the following is the method you should create?

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

Answer: A

QUESTION 109

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

Which of the following actions should you take?

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

Answer: D

QUESTION 110

You have received instructions to apply client-side animations.

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

Which of the following should be included in your code?

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

Answer: B

QUESTION 111

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

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

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

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

Answer: D

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

Background

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

Business Requirements

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

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

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

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

Technical Requirements

User Experience:

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

Compatibility:

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

Transcoding:

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

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

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

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

Development:

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

QUESTION 112

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

You start by exporting a certificate with a private key.

Which of the following actions should you take NEXT?

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

Answer: D

QUESTION 113

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

You want to write code to include the necessary attribute.

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

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

Answer: E

QUESTION 114

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

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

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

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

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

Answer: AC

QUESTION 115

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

You are preparing to write the necessary code.

Which of the following actions should you take?

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

Answer: D

QUESTION 116

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

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

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

Answer: B

QUESTION 117

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

Which of the following actions should you take?

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

Answer: A

QUESTION 118

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

Which of the following actions should you take?

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

Answer: B

QUESTION 119

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

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

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

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

Answer: BC

QUESTION 120

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

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

Answer: BC

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