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Developing ASP.NET MVC 4 Web Applications

Version: Demo 25.0

Topic 1, Scenario 1

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\Home\Index.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 user's 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.

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.es.

QUESTION NO: 1

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

Topic 2, Mixed Questions

QUESTION NO: 2

You are employed as a developer at PassGuide.com. PassGuide.com has a single Active Directory domain, named PassGuide.com.

You are making use of Visual Studio 2012 to create a new ASP.NET MVC application for PassGuide.com. The new application should be installed on PassGuide.com servers located on various networks. Furthermore, the application should be configured to collect news articles for users to browse. The application should, therefore, be accessible via various browsers to allow users to search the site.

You have been instructed to make sure that the page numbers viewed by users in the search results are tracked. To do this, you are required to make sure that the location for storing state data, with reference to the user's search, is configured.

Which of the following actions should you take?

- A. You should consider storing search terms and page index by making use of Query.
- B. You should consider storing search terms and page index by making use of String.
- C. You should consider storing search terms and page index by making use of QueryString.
- D. You should consider storing search terms and page index by making use of Search.

Answer: C

QUESTION NO: 3

You are employed as a developer at PassGuide.com. PassGuide.com has a single Active Directory domain, named PassGuide.com.

You are making use of Visual Studio 2012 to create a new ASP.NET MVC web application for PassGuide.com. PassGuide.com has a web farm that will host the new application.

You are informed that passwords should be saved in the web.config file, and should be encrypted in such a way that it is not readable, or in a format that is easily decodable.

Which of the following actions should you take?

- A.** You should consider making use of the Aspnet_regiis.exe command-line tool.
- B.** You should consider making use of the Aspnet_lpcconfig.exe command-line tool.
- C.** You should consider making use of the Aspnet_Regsvr32.exe command-line tool.
- D.** You should consider making use of the Aspnet_reg.exe command-line tool.

Answer: A

QUESTION NO: 4

You are employed as a developer at PassGuide.com. PassGuide.com has a single Active Directory domain, named PassGuide.com.

You are making use of Visual Studio 2012 to create a new ASP.NET MVC web application for PassGuide.com. You want to make sure that the new application has access to content files located on the same IIS instance as the application.

Subsequent to initializing the application, you find that there are problems relating to the application's performance.

Which of the following actions should you take fix the problem?

- A.** You should consider including the use of WebSocket API attributes.
- B.** You should consider making use of ASP.NET MVC bundling to join the content files.

- C. You should consider including the use of Accessible Rich Internet Application (ARIA) attributes.
- D. You should consider making use of ASP.NET MVC bundling to separate the content files.

Answer: B

Topic 3, Scenario 2

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 NO: 5

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

Topic 2, Mixed Questions

QUESTION NO: 6

You are employed as a developer at PassGuide.com. PassGuide.com has a single Active Directory domain, named PassGuide.com.

You are making use of Visual Studio 2012 to create a new ASP.NET MVC web application for PassGuide.com. You have been instructed to make sure that users can only insert JavaScript into a feedback text box.

You want to make sure that HTTP request values can be accessed without triggering request validation.

Which of the following actions should you take?

- A. You should consider making use of the HttpRequest.HttpChannelBinding property.
- B. You should consider making use of the HttpRequest.QueryString property.

- C. You should consider making use of the `HttpRequest.Unvalidated` property.
- D. You should consider making use of the `HttpRequest.AnonymousID` property.

Answer: C

Topic 1, Scenario 1

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Business Requirements

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Security:

The application should make use of forms authentication, and requires user logon 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.es.

QUESTION NO: 7

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

Topic 2, Mixed Questions

QUESTION NO: 8

You are employed as a developer at PassGuide.com. PassGuide.com has a single Active Directory domain, named PassGuide.com.

You are making use of Visual Studio 2012 to create a new ASP.NET MVC application for PassGuide.com. You want to make sure that a Microsoft SQL Server database is configured to host membership data.

You are required to configure the use of a membership provider.

Which of the following are membership providers that ships with ASP.NET? (Choose two.)

- A. A membership provider that makes use of Microsoft SQL Server as a data source.
- B. A membership provider that makes use of Oracle as a data source.
- C. A membership provider that makes use of Windows Active Directory.
- D. A membership provider that makes use of a user database as a data source.

Answer: A,C

QUESTION NO: 9

You are employed as a developer at PassGuide.com. PassGuide.com has a single Active Directory domain, named PassGuide.com.

You are making use of Visual Studio 2012 to create a new ASP.NET MVC application for PassGuide.com. You have configured the application to include pages for Windows Phone 7 users to browse the site.

You have been instructed to make sure that the application is updated to allow Windows Phone 7 users to accurately view the modified files.

You are required to update a specific method.

Which of the following is the method that should be updated?

- A. The Application.OnLaunched method.
- B. The Application.Start method.
- C. The Application.OnFileActivated method.
- D. The OnSearchActivated.Start method.

Answer: B

QUESTION NO: 10

You are employed as a developer at PassGuide.com. PassGuide.com has a single Active Directory domain, named PassGuide.com.

You make use of Visual Studio 2012 to create new ASP.NET MVC web applications for PassGuide.com.

You are currently running a training exercise for junior developers. You are discussing an HttpRequest property that Gets or sets the character set of the entity-body.

Which of the following is the property being discussed?

- A. The Cookies property.
- B. The ContentLength property.
- C. The ContentEncoding property.
- D. The ContentType property.

Answer: C