



Vendor: Microsoft

Exam Code: 70-519

Exam Name: PRO: Designing and Developing Web Applications Using Microsoft .NET Framework 4

Version: DEMO

QUESTION 1

You are designing an exception-handling strategy for an ASP.NET Web Forms application. The Web application will use Windows authentication.

The Web application must meet the following requirements:

- Display a user-friendly error message to users.
- Display a detailed error message to server administrators.

You need to recommend an approach for handling exceptions. What should you recommend?

- A. Add a HandleError attribute to each controller class.
- B. On the assembly, add a SecureRules attribute with the security rule set configured to level 2.
- C. In the Application_Error event handler, wrap the exception in an ExternalException exception. Rethrow the exception if the user is not a member of the Administrators group.
- D. In the customErrors element of the Web.config file, set the mode attribute to remoteOnly.

Answer: B

QUESTION 2

You are designing an ASP.NET Web application. The Web application includes a section for sales pages.

You need to ensure that the sales pages share a specific header and a specific footer that differ from those of all other pages in the application. Which approach should you recommend?

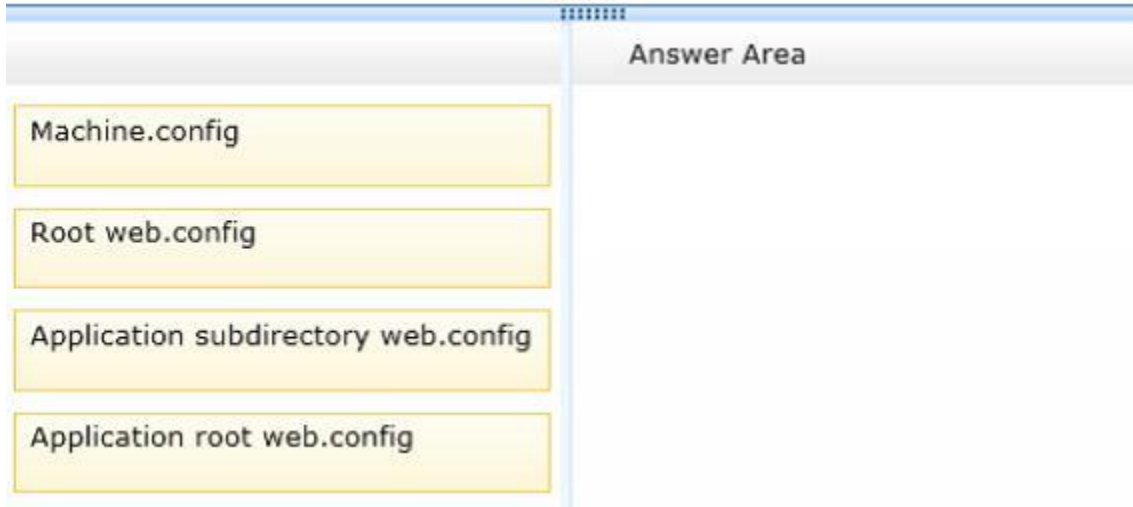
- A. Create the specific header and footer elements in the site's master page.
- B. Create separate usercontrols for the specific header and footer, and add each of the user controls to the site's master page.
- C. Create a sales subdirectory. Add a master.aspx page that contains the header and footer to the subdirectory, and then store all the sales pages in the subdirectory.
- D. Create a sales.masterpage that contains the header and footer and inherits from your site's master page, and then use the master page in each sales page.

Answer: D

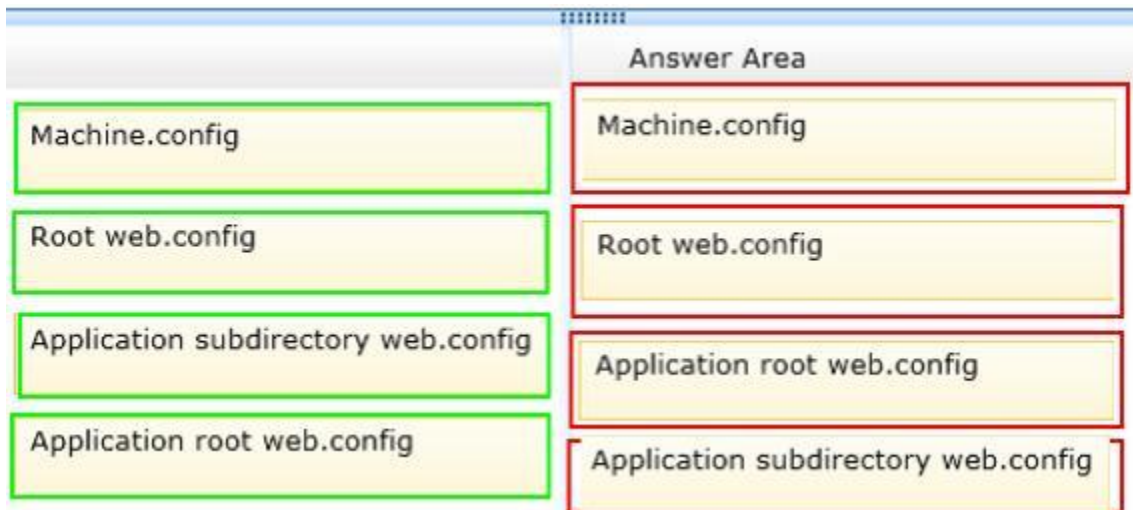
QUESTION 3

Drag and Drop Question

You are troubleshooting an ASP.NET web application. The application contains a setting that is included in several configuration files. You need to identify the configuration file in which the setting was first applied. In which order should you evaluate the configuration files? (To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.)



Answer:



Explanation:

machine.config is the top level one. It is applied to all sites running on that server. There are some settings which can only be configured in this .config file for security reasons (imagine if you had several different clients hosted on your server). Other settings can be overridden by web.config for example in an individual website. Dont delete this file.

In the root folder of your asp.net website you will find a web.config. This has important information for configuring various elements of your site such as membership providers, any third party libraries, and it extra assemblies you might need. Dont delete this file.

You might also find additional copies of web.config inside sub folders of your site.

You can have settings specific to those folders such as setting up security permissions.

You will generally find that these additional web.config files are much more lightweight than the main web.config. You could delete these files but depending on what you have in them but doing so might break functionality such as removing the requirement to be logged in to view a certain folder.

App.config is a similar concept to the web.config except it is used in non website projects such as a desktop app or a class library. Again you could delete this file but it might have strange knock on effects with the rest of the code.

All of these .config files are stacked together in memory when the program is run. First the

machine.config is read, then if your web site uses class libraries the app.configs are read in and overwrite any conflicting settings currently in memory. Then the main web.config is parsed and any conflicting settings this file contains are used. Then finally if the current request is in a subfolder that contains a web.config that is parsed and overwrites any conflicting settings as well. A common example of these conflicting settings is that if you have a database connection string in your class library but need to overwrite it in your website. There is also an additional file called settings.settings that you might come across but as far as I can remember its something to do with desktop development and isn't part of the .config system.

QUESTION 4

You have an ASP.NET Web application.

Several pages in the application must display localized content. Users report that the content is not localized on one of the pages.

You need to ensure that the page displays localized content.

What do you do?

- A. In the globalization element of the Web.Config file for the application, set the value of the UICulture and Culture attributes to auto.
- B. In the page directive for the pages that are not localized, set the UICulture and Culture attributes to auto.
- C. In code-behind file for the pages that are not localized, create a new thread. Set the value of the Thread.CurrentThread.CurrentCulture and Thread.CurrentThread.CurrentUICulture properties to a regional identifier.
- D. In code-behind file for the pages that are not localized, override the InitializeCulture() method. Set the value of the Page.UICulture property to a regional identifier.

Answer: D

QUESTION 5

You are designing the deployment strategy for an ASP.NET Web application. The database configuration string varies depending on the target environment.

You have the following requirements:

- Deploy the application by using Web Deploy.
- Replace the connection string named AppDb with the appropriate value for each environment.

You need to recommend an approach for updating the AppDb connection string when deploying the application to the staging environment.

Which two attributes should you add to the AppDb connection string entry in the Web.staging.config file? (Each correct answer presents part of the solution. Choose two.)

- A. xdt:Transform with the value "XPath(configuration/connectionStrings[@name='AppDb'])"
- B. xdt:Locator with the value "XPath(configuration/connectionStrings[@name='AppDb'])"
- C. xdt:Locator with the value "Replace"
- D. xdt:Transform with the value "Replace"

Answer: BC

QUESTION 7

You are designing a RESTful ASP.NET Web application. You have the following requirements:

- Retain state between requests.
- Associate a request with a session.

Do not require the use of cookies. You need to ensure that your design meets the requirements. Which approach should you recommend?

- A. Disable View State by using the @ Page directive
- B. Configure the application to use cookieless session state
- C. Configure the application to use the InProc session state mode
- D. Register a custom Page Adapter class that provides a Session State Page Per sister.

Answer: B

QUESTION 8

You are designing an ASP.NET Web application. You have the following requirements: Relational database tables must automatically map to .NET classes. The data access layer must be able to target database engines other than Microsoft SQL Server. You need to recommend a data access technology. Which technology should you recommend?

- A. direct ADO.NET calls
- B. Entity Framework 4
- C. LINQ to SQL
- D. .NET Framework Data Provider for OLE DB

Answer: B

QUESTION 9

An ASP.NET Web application contains a class named Money. The Money class has properties named Value and Currency.

The Locals window of the Microsoft Visual Studio 2010 IDE currently displays the Value and Currency properties only when the Money object is expanded.

You have the following requirements:

- Display the Value and Currency property values in the Locals window.
- Display the property values without requiring the developer to expand the Money object.

You need to recommend an approach for modifying the Money class to meet the requirements. What should you do?

- A. Apply the DebuggerDisplay attribute to the class.
- B. In the constructor, create a new instance of the LocalItemDescription class for each of the Value and Currency properties.
- C. In the Value and Currency property setters, call the Debug.WriteLine() method.
- D. Modify the class to inherit from the LocalVariableInfo class. Override the IsPinned property to return true.

Answer: A

QUESTION 10

You are designing an ASP.NET MVC 2 Web application. When the Web application is accessed

through the .../Products/Categories URL, it will display a list of products sorted by category. You have the following requirements:

- The Web application design must be loosely coupled.
- The Web application must support unit testing of the data layer code.

You need to recommend a location for the code that maps and retrieves products from the data store. Which location should you recommend?

- A. A View class named ProductCategory
- B. A Controller class named ProductsController
- C. A Controller class named Products
- D. A Model class named ProductCategory

Answer: D

QUESTION 11

You are designing a health monitoring strategy for an ASP.NET Web application. The Web application must raise failure events to correspond with key business process failures. You need to recommend an approach for ensuring that failure events can be consumed by the ASP.NET Health Monitoring framework. Which two actions should you recommend? (Each correct answer presents part of the solution. Choose two.)

- A. Create a custom event class derived from the WebErrorEvent class.
- B. Create a custom event class derived from the WebFailureAuditEvent class.
- C. In the Web.config file, add an entry to the healthMonitoring/providers collection for the custom event class.
- D. In the Web.config file, add an entry to the healthMonitoring/eventMappings collection for the custom event class.

Answer: AD

Case Study 1 - Adventure Works (11 QUESTIONS)

BACKGROUND

Adventure Works is a retail operation with facilities in English-speaking and Spanish-speaking countries.

Adventure Works plans to begin selling its products online. As a first step, the company will develop a customer-facing shopping cart.

You are a senior developer hired by the company to lead the development of the new solution.

BUSINESS REQUIREMENTS

Your solution must meet the following business requirements.

General

The Web application must support the English and Spanish languages, and must display all information in the end user's language and culture.

The Web application must handle errors gracefully. If an error occurs, the Web application must send a notification.

User Interface

The Web application must support two groups of users: customers and administrators. The Web application must have a separate interface for each user group.

The customer-facing interface has the following associated requirements:

- Customers must create user accounts.
- The customer-facing interface must include the online store and a page that displays shopping cart content.
- Customers must submit orders from the shopping cart page.
- Customers must log in to user accounts to submit orders.
- Customers must be able to upload image files to the Web application.
- The online store must include products that can be customized with the image files uploaded by the customer.

The administrative interface has the following associated requirements:

- The administrative interface must include tools for managing inventory, users, and sales, and tools for viewing reports.
- Administrators must be able to change the appearance of the Web application for specific holidays without redeploying the application.

Case Study 2 - Blue Yonder Airlines (12 QUESTIONS)

BACKGROUND

You are a senior developer at Blue Yonder Airlines.

The company has an existing Web application that was written by using Classic ASP and COM+. It has become increasingly difficult to maintain the non- object oriented code. Ongoing growth has made the current security implementation unreliable in the defense of the attack surface. An increased user base has introduced scalability and performance problems.

After several project planning sessions, the architecture team has decided that the Web application must be rewritten to increase security, allow better scalability, improve maintainability of source code, and implement best practices.

BUSINESS REQUIREMENTS

Your solution must meet the following business requirements.

Security

All users of the Web application must have a user name, a password, and one or more roles assigned. You must support dynamic updates to roles and permissions from within the Web application.

Specific areas of the Web application must be secured to prevent access by unauthorized users. Due to security concerns, the use of persistent cookies is not allowed. However, the use of session cookies is allowed.

Data Access

The Web application must use a Microsoft SQL Server 2008 data store. In addition, the Web application must provide the capability to connect to and display third-party data.

The database will store a list of news items and news categories that have the following associated requirements:

- The Web application must allow users to specify a news category for entry or retrieval of news items.
- When the user begins entering a news category name, the Web application must display categories matching the entered text without submitting a form.
- News items that are posted in the Web application must be exposed to visitors by using RSS feeds.
- The news feeds must be retrieved from the database and formatted by using the Rss20FeedFormatter class.

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