



Vendor: Microsoft

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

Version: DEMO

QUESTION 1

You are planning to migrate an ASP.NET 3.5 Web application to ASP.NET 4.

The following elements must be optimized for search engines.

* "URLs within the Web application.

* "HTML rendered by the Web application.

You need to design a solution for loading data dynamically into a Data List by using the current URL.

Which approach should you recommend?

A. Use Web Forms routing and set the Repeat Layout Property to Table on all list controls.

B. Use Web Forms routing and set the Render Outer table property to false on all Form View controls.

C. Use permanent redirect and set the Repeat Layout property to Table on all list controls.

D. Use permanent redirect and set the Render Outer table property to false on all Form View controls.

Answer: B

QUESTION 2

You are designing an ASP.NET MVC 2 application.

You need to centralize the logic for handling and logging unhandled exceptions.

Which approach should you recommend?

A. Use try and catch on every method.

B. Override the One Exception method of each controller.

C. Decorate all controllers with a custom Handle Error attribute.

D. Decorate all controllers with the default Handle Error attribute.

Answer: C

QUESTION 3

You are designing an ASP.NET Web application that contains both publicly accessible pages and administrative pages.

You need to handle errors differently for publicly accessible pages and administrative pages and you must use common code for each type of page.

Which approach should you recommend?

A. Use the Application_Error method in the Global.asax.cs file.

B. Use the subclasses of System.Web.UI.Page_Error methods.

C. Use the Page_Error method in each of the master pages.

D. Use the Page_Error method in each of the publicly accessible pages and administrative pages.

Answer: B

QUESTION 4

You are designing a class library that will be used for all of your company's ASP.NET Web applications.

A specific variable in a helper class within the library holds very sensitive information.

You need to ensure that the variable is not visible to developers when they are debugging any of the Web applications.

Which two actions should you recommend (Each correct answer presents part of the solution. Choose two.)

- A. Make the variable private.
- B. Make the variable protected.
- C. Use the Debugger Display attribute.
- D. Use the DebuggerBrowsable attribute.

Answer: AD

QUESTION 5

You are designing an ASP.NET Web application.

The Web application uses a Menu control to display either a menu of public and private pages to authorized users or a menu of only public pages to visitors.

You need to ensure that the menu options and URLs of the private pages are not available to unauthorized users.

Which approach should you recommend?

- A. Use the Page_Init method to add to the Menu control only pages that the user is authorized to view.
- B. Use the Page_Load method to add to the Menu control only pages that the user is authorized to view.
- C. Use a JavaScript window.onload event handler to hide the private pages from the list of pages shown on the menu.
- D. Use a JavaScript document ready event handler to hide the private pages from the list of pages shown on the menu.

Answer: B

QUESTION 6

You are designing an ASP.NET Web Forms application.

The application supports thousands of concurrent users.

A Web form in the application enables users to send personalized e-mail messages to thousands of recipients.

You need to design the application to optimize performance.

Which approach should you recommend?

- A. Use a separate process from the On Click method of the form.
- B. Use a Background Worker class from the On Click method of the form.
- C. Use the classes in the System.Web.Mail namespace from the On Click method of the form.
- D. Use the classes in the System.Net.Mail namespace from the On Click method of the form.

Answer: A

QUESTION 7

You are designing an ASP.NET Web application for online image editing.

Users can upload images to the Web application and edit those images by using utilities provided by the application.

Some utilities are processor intensive and should be offloaded to a Graphics Processing Unit (GPU).

Other utilities require the use of proprietary algorithms that must be performed on the server. You need to design a solution for minimizing bandwidth usage and Web server response times during image processing, while providing a responsive application.

Which two approaches should you recommend?

(Each correct answer presents part of the solution. Choose two.)

- A. Perform server-side image processing on the Web server
- B. Perform server-side image processing on a dedicated server.
- C. Perform client-side image processing by using ASP.NET AJAX.
- D. Perform client-side image processing by using Microsoft Silver light.

Answer: BD

QUESTION 8

You need to design a solution to ensure that data caching and session state will be maintained.

Which approach should you recommend?

- A. Use distributed caching and out-of-process session state.
- B. Use distributed caching and in-process session state.
- C. Use output caching and out-of-process session state.
- D. Use output caching and in-process session state.

Answer: A

QUESTION 9

You need to design a deployment solution for the rewritten Web application.

Which approach should you recommend?

- A. Deploy the rewritten Web application to the same file path on each server in the Web farm.
- B. Compile the rewritten Web application and deploy the compiled library to the global assembly cache.
- C. Add the rewritten Web application to an application pool that contains only ASP.NET 4 Web applications.
- D. Add the rewritten Web application to the same application pool as Web applications written in ASP.NET 2.0, ASP.NET 3.0, and ASP.NET 3.5.

Answer: C

QUESTION 10

You are designing an ASP.NET Web application to manage and display sensitive information stored in a Microsoft SQL Server database.

The database also provides authorization information for users.

All Web pages that display sensitive information require an authenticated login.

There is no visitor access to these pages.

You have the following requirements:

- * "Separate authorization logic from the application.
- * "Prevent the application from directly accessing the database server.

You need to design a data access and authorization solution.

Which approach should you recommend?

- A. Use a WCF service.

- B. Use a separate library.
- C. Use SQL XML Services.
- D. Use stored procedures.

Answer: A

QUESTION 11

You are designing a solution for sharing information among employees located in a main office and several branch offices.

The solution will consist of the following elements:

- * "An ASP.NET Web application that accesses and manipulates large amounts of data
- * "Web services used by the Web application for data access
- * "A Microsoft SQL Server database Data displayed to users is never more than one day old.

You need to plan a deployment strategy that minimizes bandwidth requirements.

Which deployment strategy should you recommend?

- A. Deploy the Web application, Web services, and database to the main office, and use browser caching.
- B. Deploy the Web application, Web services, and database to each branch office, and use SQL Server Replication.
- C. Deploy the Web services and database to the main office deploy the Web application to each branch office, and use output caching.
- D. Deploy the database to the main office.

Deploy the Web application and Web services to each branch office, and use caching at the Web service level.

Answer: D

QUESTION 12

You are designing an ASP.NET Web application.

You have the following requirements:

- * "Perform rapid development.
- * "Maintain cross-browser compatibility.
- * "Do not require client-side installations.

You need to recommend a client-side technology that meets the requirements.

Which two technologies could you recommend? (Each correct answer presents a complete solution. Choose two.)

- A. jQuery
- B. ASP.NET AJAX
- C. Microsoft Silverlight
- D. Microsoft Visual Basic Scripting Edition (VBScript)

Answer: AB

QUESTION 13

You need to design a solution for calling a server-side method of the code-behind file from JavaScript.

Which approach should you recommend?

- A. Use Page Methods.
- B. Use an Update Panel control.
- C. Use an Update Progress control.
- D. Configure the server-side method to return a JsonResult.

Answer: A

QUESTION 14

You are designing an ASP. NET Web application.

You have the following requirements:

- * "The application must be usable in partially connected scenarios.
- * "Data that is entered into the application offline must be synchronized with the server the next time the application is online.

You need to design the application to meet the requirements.

What should you use?

- A. jQuery
- B. ASP.NET AJAX
- C. WCF Data Services
- D. Microsoft Silverlight

Answer: D

QUESTION 15

You need to design a solution for programmatically adding reusable user-interface code to views and allowing the user-interface code to be rendered from the server side.

Which approach should you recommend?

- A. Create a jQuery library plug-in.
- B. Create an HtmlHelper extension method.
- C. Create a controller that returns an Action Result.
- D. Create a Web Form server control that stores values in View State.

Answer: B