

70-518

Microsoft

Pro: Designing and Developing Windows Applications Using Microsoft .NET Framework 4

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QUESTION: 1

You are designing a Windows Presentation Foundation (WPF) client application from which employees will access a Web service. Business partners will access the Web service by using proprietary client applications. You need to recommend a solution for ensuring the integrity of data in the system. What should you recommend?

- A. Secure the Web service by using SSL.
- B. Implement data validation at the service layer and reject invalid data.
- C. Implement data validation on the client and reject invalid data.
- D. Encrypt data while storing it in the database.

Answer: B

QUESTION: 2

You are designing a .NET Framework 4 solution that includes a Windows Presentation Foundation (WPF) application. The WPF application connects to a Microsoft SQL Server 2008 database. You plan to deploy the WPF application to millions of client computers. The SQL Server database will be hosted in a data center. The WPF application will query the database to provide type-ahead assistance as users enter data. The WPF application will send a query after each character is entered. Each query will access multiple joined tables. You need to recommend an approach for maximizing scalability of the solution. What should you recommend?

- A. Denormalize the data to fewer tables.
- B. Create stored procedures to abstract the tables.
- C. Use System.Runtime.Caching to cache query results on the client.
- D. Create a separate data layer with caching.

Answer: D

QUESTION: 3

You are reviewing multiple Windows Presentation Foundation (WPF) applications that capture postal addresses. The WPF applications have different appearances and functionality. Each WPF application uses a different control to visualize the captured addresses. You plan to modify all WPF applications to allow developers to visualize addresses by using a common template. You need to recommend an approach for standardizing the visualization of captured addresses.

What should you recommend?

- A. Use a DataTemplate object.
- B. Use a ControlTemplate object.
- C. Use a FrameworkTemplate object.
- D. Use an ItemsPanelTemplate object.

Answer: A

QUESTION: 4

You are evaluating an existing Windows Presentation Foundation (WPF) application. The WPF application runs in a Web browser as a XAML browser application (XBAP). The WPF application runs in the Intranet zone with Full Trust. A client certificate for the WPF application has been generated. Users are unable to access the WPF application. You locate the following message in the security log: "User has refused to grant required permissions to the application." Users state that they are clicking OK in all message boxes that appear. You need to recommend an approach for ensuring that the WPF application runs correctly on all client computers. Which two actions should you recommend? (Each correct answer presents part of the solution. Choose two.)

- A. Use the Code Access Security Policy Tool to grant the appropriate permissions.
- B. Sign the ClickOnce manifest for the WPF application.
- C. Modify the ClickOnce manifest for the WPF application to grant the appropriate permissions.
- D. Import the client certificate to the Trusted Root store.

Answer: A, B

QUESTION: 5

An existing Windows application uses a Windows Communication Foundation (WCF) Web service that is available only to employees. You have the following requirements:

- ☞ Make the WCF Web service available to business partners.
- ☞ Enable business partners to send a profile token.
- ☞ Ensure that the currently deployed application continues to function.

You need to recommend a solution that meets the requirements. What should you recommend?

- A. Convert the WCF Web service to a Duplex service that implements a callback to accept the profile token.
- B. Use SOAP headers to pass the profile token to the service operations.
- C. Modify the WCF Web service operations to accept the profile token as an additional parameter.
- D. Implement the WCF Web service as a REST service.

Answer: B

QUESTION: 6

You are designing a Windows Presentation Foundation (WPF) application. The application will be localized into multiple languages. You need to recommend an approach for preparing the application for localization. Which two actions should you recommend? (Each correct answer presents part of the solution. Choose two.)

- A. Add UID attributes to language-specific elements in the XAML file.
- B. Define a UICulture element for each language in the project file.
- C. Add an application setting for each language to the App.config file.
- D. Translate the contents of the appropriate XAML elements into each localization language.

Answer: A, B

QUESTION: 7

You are reviewing an existing Windows application that uses .NET Framework 4. When the user clicks a button, the application sequentially processes thousands of image files contained in a directory. The user interface becomes unresponsive while the application processes the files.

You have the following requirements:

- ☞ Modify the button's click event.
- ☞ Increase application throughput by processing multiple image files concurrently.
- ☞ Ensure that the user interface remains responsive while the application processes the image files.

You need to recommend an approach for meeting the requirements. What should you recommend?

- A. Iterate over the image files. For each image file, use the Process.Start() method to launch a console application that processes the image file.

- B. Use the `ThreadPool.QueueUserWorkItem()` method to queue up a single work item that uses the `Parallel.ForEach()` method to process the image files concurrently.
- C. Use the `Parallel.ForEach()` method to process the images concurrently.
- D. Iterate over the image files by using the `Parallel.ForEach()` method. For each image file, start a separate thread that processes the image file, by using the `Thread.Start()` method.

Answer: B

QUESTION: 8

You are designing an n-tier Windows solution that includes a data entry application. The solution uses Microsoft .NET Framework 4 and Microsoft SQL Server 2008. The data entry application sends customer orders to a middle-tier server. The middle-tier server sends orders to a set of services that perform operations on the orders. Business rules determine which services to call and whether to run them in sequence or in parallel. The business rules are complex and data dependent. The Windows solution must meet the following requirements:

- ☞ Optimize application performance by using dynamic load balancing.
- ☞ Allow for business rules to be changed at runtime.

You need to recommend an approach that meets the requirements. What should you recommend?

- A. Private message queues with a controller class on the middle-tier server
- B. SQL Server stored procedures
- C. A routed service that uses Windows Communication Foundation (WCF) messaging
- D. A Windows Communication Foundation (WCF) service for each operation, with a controller class on the middle-tier server

Answer: C

QUESTION: 9

You are designing an n-tier .NET Framework 4 solution that includes a Windows Presentation Foundation (WPF) application. You need to recommend an approach for ensuring that the solution can support 5,000 concurrent users.

What should you recommend?

- A. Buffer overflow testing

- B. Integration testing
- C. Component stress testing
- D. Stress testing

Answer: A

QUESTION: 10

You design a Windows Presentation Foundation (WPF) application that connects to a Microsoft SQL Server 2008 database. The WPF application becomes unresponsive at times. When the WPF application is running, physical memory usage is between 90 percent and 95 percent. You need to recommend a tool that will identify the memory usage characteristics of the WPF application. Which tool should you recommend?

- A. Application Center Test (ACT)
- B. CLR Profiler
- C. Event Tracing for Windows (ETW)
- D. SQL Profiler

Answer: A

QUESTION: 11

You design a Windows Presentation Foundation (WPF) application that interacts with a Windows Communication Foundation (WCF) Web service. The WCF Web service throws exceptions of type `Exception`. The WPF application crashes when the WCF Web service throws an exception. You need to recommend an error-handling strategy that allows users to submit updated data to the WCF Web service without restarting the WPF application. What should you recommend?

- A. Modify the Web service to throw exceptions of type `FaultException`.
- B. Modify the Web service to throw custom exceptions derived from the `Exception` class.
- C. Modify the Web service to throw exceptions of type `InvalidOperationException`.
- D. Modify the Web service to throw custom exceptions derived from the `ApplicationException` class.

Answer: A

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