



70-518^{Q&As}

PRO: Design & Develop Wndws Apps Using MS .NET Frmwrk 4

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**QUESTION 1**

You are designing a Windows application by using Microsoft .NET Framework 4. Remote users have limited network connectivity. Users will not have write permissions to the local file system.

You plan to design the error logging strategy for the application.

You need to ensure that the application can collect error information. You also need to ensure that the errors can be analyzed from a centralized location.

What should you do?

- A. Use a local log file.
- B. Use the Microsoft Sync Framework.
- C. Log the errors to a Web service.
- D. Log the errors to the Windows System event log.

Correct Answer: B

QUESTION 2

You are developing an application by using Microsoft .NET Framework 4.

The application will be used by all employees of your company. Local file stores on the computers are secure and inaccessible remotely.

You need to design a remote monitoring strategy to monitor the usage time of the application by each user.

What should you do?

- A. Create a TraceLog object and the Trace object by using the System.Diagnostics element to trace startup, shutdown, and user idle time events throughout the application.
- B. Create a TraceLog object by using the System.Diagnostics element in the application configuration file. Add the TraceSource element for startup, shutdown, and user idle time events.
- C. Use the System.Management.Instrumentation namespace to publish startup, shutdown, and user idle time events of the application. Publish the events to Microsoft Operations Manager.
- D. Use the System.Management.Instrumentation namespace to issue event queries against methods that pass ProgressEvent and StoppedEvent arguments. Publish the events to the Event Log.

Correct Answer: C

QUESTION 3

You are designing a Windows Presentation Foundation (WPF) application by using Microsoft .NET Framework 4 and Microsoft Visual Studio 2010.



You plan to create an Author object that contains a Books property. The Books property contains a large array of Book objects.

When users browse through author data in the application, they must be able to view all information related to books written by that author without additional queries.

You need to design a data access strategy that meets the requirement.

Which strategy should you use?

- A. lazy loading
- B. eager loading
- C. optimistic locking
- D. pessimistic locking

Correct Answer: B

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. Import the client certificate to the Trusted Root store.
- D. Modify the ClickOnce manifest for the WPF application to grant the appropriate permissions.

Correct Answer: AB

QUESTION 5

You are designing a Windows Presentation Foundation (WPF) application that uses .NET Framework 4. The application uses a subset of the functionality provided by a third-party COM component that will be replaced later.



The application developers must have access to only the required subset of functionality. You need to recommend a solution that meets the requirements.

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

- A. Create an adapter assembly that exposes the entire functionality of the COM component.
- B. In the adapter assembly, use an embedded interop reference.
- C. In the adapter assembly, use a standard interop reference.
- D. Create an adapter assembly that exposes the required subset of the COM component functionality.

Correct Answer: CD

QUESTION 6

You are designing a Windows Presentation Foundation (WPF) application.

The application calls methods that perform long-running computational tasks.

You need to recommend an approach for ensuring that the application remains responsive while the tasks are executing.

What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. Use synchronous method calls from a thread other than the thread on which the user interface runs.
- B. Run the user interface from a new multi-threaded apartment (MTA) thread.
- C. Use synchronous method calls from the user interface thread.
- D. Use asynchronous method calls from the user interface thread.

Correct Answer: AD

QUESTION 7

You are designing an application by using Microsoft .NET Framework 4 and Microsoft Visual Studio 2010. The application will store data that includes a time and date stamp.

The middle tier of the application is implemented by using Windows Communication Foundation (WCF).

The middle tier connects to geographically separated database servers.

You need to ensure that the application meets the following requirements:

Data stored contains time and date information local to the database server.



Data stored contains Universal Coordinated Time (UTC).

Which class should you use?

- A. DateTime
- B. DateTimeOffset
- C. TimeZoneInfo
- D. TimeZone

Correct Answer: B

QUESTION 8

You are creating a Windows application by using Microsoft .NET Framework 4 and Microsoft Visual Studio 2010.

The business logic layer of the application is implemented by using Windows Communication Foundation (WCF).

The application must provide maximum availability. It must be able to run in a reliable manner even when network connectivity is not available.

You need to design the WCF service interaction for the business layer of the application.

What should you do?

- A. Create a WCF queued service.
- B. Create a WCF proxy class that uses synchronous operations.
- C. Create a WCF proxy class that uses asynchronous operations.
- D. Create a WCF service that uses the Ws2007HttpBinding binding.

Correct Answer: A

QUESTION 9

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.

Correct Answer: D

QUESTION 10

You are designing an n-tier Windows application by using Microsoft .NET Framework 4, Microsoft Visual Studio 2010, and Microsoft SQL Server 2008.

The application will replace an existing client/server application. The existing application was created by using Microsoft Visual Basic 6.0 and consists of a series of COM components that access a SQL Server database.

You plan to move the existing COM components into a Windows Communication Foundation (WCF) tier.

You need to ensure that the COM components can be replaced without impacting the existing user interface (UI) tier. You also need to ensure that the COM components can be replaced separately.

What should you do?

- A. Create a common assembly on the UI tier of the new application to interface with the COM components.
- B. Create a common assembly on the WCF tier of the new application to interface with the COM components.
- C. Use .NET COM Interop on the client tier to interact directly with the COM components until they are replaced by the managed code.
- D. Convert the Visual Basic 6.0 source code to managed code by using the Visual Studio converters. Use these code components on the client/server application until they are replaced individually with the new permanent managed code functionality.

Correct Answer: A

QUESTION 11

You are designing an application by using Windows Presentation Foundation (WPF) and Microsoft .NET Framework 4.

The application retrieves customer data from an enterprise resource planning (ERP) system.

You need to ensure that the following requirements are met:

Customer data is retrieved only once.

Customer data is available on multiple forms within the application.

Forms can implement Two-Way binding to the customer data.

What should you do?



- A. Store the results of the query in a static DataTable object that is used by all the forms.
- B. Store the results of the query in a local XML file. Bind all forms to an XMLDataAdapter object that references the local XML file.
- C. Design a static class for the data that implements the [Observable interface. Subscribe to the static class from each of the forms that use the data.
- D. Design a static class for the data that implements the INotifyPropertyChanged interface. Raise the PropertyChanged event to notify the forms when data is changed.

Correct Answer: D

QUESTION 12

You are updating a Windows desktop client application that was created by using Microsoft .NET Framework 4 and Microsoft Visual Studio 2010.

The application displays data derived from several database queries. The display takes a long time to update.

The application currently uses a BackgroundWorker thread and a Parallel.ForEach statement on that thread.

Users have requested a modification to the program that would allow them to interrupt the display of data and begin processing a new and different query.

You decide to provide a new Stop button on the user interface (UI) to allow the user to terminate the current data display and initiate the new query.

The main UI thread must be notified when the current data processing is terminated so that the new query can be started.

You need to implement the Stop button event handler.

What should you do?

- A. Use the DoWork handler of the worker thread and test a shared status value. Use a break statement to terminate the Parallel.ForEach loop.
- B. Use the DoWork handler of the worker thread and test a shared status value. Use a loopStatus.Stop() statement to terminate the Parallel.ForEach loop.
- C. Use the DoWork handler of the worker thread and test a shared status value. Use the Thread.AbortQ statement to terminate the worker thread. Start a new BackgroundWorker thread from the main UI thread.
- D. Use a CancelAsync() function to cancel the worker thread. In the Parallel.ForEach loop, test the CancellationPending property. If the property is set to true, perform the following tasks:

Write a loopStatus.Stop() statement.

Set the DoWorkEventArgs.Cancel property to true.

Use a return statement to exit from the loop.



Correct Answer: D

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