



70-518^{Q&As}

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

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QUESTION 1

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 2

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

The application will run on Windows 7-based kiosks that are located indoors and outdoors. The kiosk displays have a photo sensor that will update the application with the current ambient luminosity.

You need to ensure that the user interface (UI) of the application dynamically changes the application theme based on the ambient luminosity.

What should you use?

- A. a RenderTransform control applied to the root canvas
- B. a visual state manager to add VisualStateGroup objects
- C. an attached behavior to change a merged resource dictionary
- D. a VisualBrush control to paint the UI

Correct Answer: C



QUESTION 3

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 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.
- B. Iterate over the image files. For each image file, use the `Process.Start()` method to launch a console application that processes the image file.
- C. Use the `Parallel.ForEach()` method to process the images concurrently.
- D. Use the `ThreadPool.QueueUserWorkItem()` method to queue up a single work item that uses the `Parallel.ForEach()` method to process the image files concurrently.

Correct Answer: D

QUESTION 4

You are designing a .NET Framework 4 solution that contains a Windows Presentation Foundation (WPF) application and a Windows Communication Framework (WCF) Web service.

The WPF application will be deployed to users' desktops located in the company's corporate network. The WCF Web service will be deployed to a Web farm located in the company's perimeter network. The firewall between the perimeter

network and the Internet allows only HTTP and HTTPS traffic.

You need to recommend an approach for minimizing the attack surface of the WCF Web service.

What should you recommend?

- A. Configure a WCF endpoint to use the `MetTcpBinding` binding.
- B. Configure a WCF endpoint to use the `basicHttpBinding` binding.
- C. Add a load-balancing router to the Web farm configuration.



D. Set up an SSL certificate on the server.

Correct Answer: D

QUESTION 5

You are designing a Windows Presentation Foundation (WPF) application that will be used to display real-time data from a Microsoft SQL Server 2008 database.

You need to recommend an approach for displaying the data.

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

- A. Implement Oneway binding between the controls in the WPF application and objects in the data layer.
- B. Implement OneWayToSource binding between the controls in the WPF application and objects in the data layer.
- C. Use a SqlCacheDependency object in the data layer to query the database when a change is detected.
- D. Use a System.Runtime.Caching object in the data layer with a sliding expiration, and query the database when the Cache object expires.

Correct Answer: AC

QUESTION 6

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 7



You are designing a Windows Presentation Foundation (WPF) application that connects to a data access layer on a server.

You have the following requirements for all security-related exceptions:

Exceptions that occur in the data access layer must be handled in a single exception handler in the WPF application.

Exceptions must pass customized messages back to the WPF application.

You need to recommend an approach for creating new exception classes in the data access layer.

From which class should you inherit?

- A. System.AccessViolationException
- B. System.ApplicationException
- C. System.Security .SecurityException
- D. System.InvalidOperationException

Correct Answer: C

QUESTION 8

You are designing a Windows Presentation Foundation (WPF) application. The WPF application displays indicators to compare your company's past performance to the current day's operations data. The WPF application accesses historic

data from your company's data warehouse through a Web service, and accesses current data directly from a Microsoft SQL Server 2008 database.

The WPF application must meet the following requirements:

Retrieve historic data from the data warehouse at application startup and then once per day.

Retrieve current data from the database every five minutes, and then update the indicators.

Cache all retrieved data.

Target the .NET Framework 4 Client Profile.

You need to recommend an approach to data caching.

What should you recommend?

- A. Use System.Web.Caching with a sliding expiration.
- B. Use System.Runtime.Caching with an absolute expiration.
- C. Use System.Runtime.Caching with a sliding expiration.
- D. Use System.Web.Caching with are absolute expiration.



Correct Answer: C

QUESTION 9

You are designing a Windows client application by using Microsoft .NET Framework 4 and Microsoft Visual Studio 2010. The application will read and write data that is stored in a mainframe application. A hardware device that is located between the application and the mainframe removes all XML- formatted messages.

You need to ensure that the application can request and receive data from the mainframe application. What should you create?

- A. a RSS-based WCF service
- B. a REST-based WCF service
- C. a .NET Remoting service that uses the SOAP formatter
- D. a .NET Web Service that uses the wsHttpBinding binding

Correct Answer: B

QUESTION 10

You are packaging updates for multiple Windows Presentation Foundation (WPF) applications by using Microsoft .NET Framework 4.

Updates to the applications and to third-party control files are available. Updates to the applications have dependencies upon updates to the third-party control files. An update script is run at logon that allows only a single command to be executed.

You need to package the application updates and updates to the third party controls to ensure that they are successfully installed.

What should you do?

- A. Package application updates as a single installer. Package third-party control files as a merge module.
- B. Package application updates as a single installer. Package third-party control files as a separate installer.
- C. Prepare the installers for individual application updates and include the third-party control files as individual files.
- D. Prepare the installers for individual application updates and include the third-party control files as a merge module.

Correct Answer: A

QUESTION 11

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



Microsoft SQL Server 2003. New features that require changes to be made to the database schema are added to the application every week.

You need to ensure that the changes made to the database schema do not require the application to be recompiled.

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

- A. Modify the xml mapping file when the schema changes occur,
- B. Modify the conceptual schema xml file when the schema changes occur.
- C. Build a storage model and use it to access data from the business entities.
- D. Build a conceptual model and use it to access data from the business entities.

Correct Answer: AD

QUESTION 12

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

You need to ensure that the following requirements are met:

All UI elements are labeled.

All property values are exposed.

Keyboard navigation contains tab stops for all controls.

The application functions on high contrast displays.

Which testing strategy should you recommend?

- A. Stress testing
- B. Stability testing
- C. Usability testing
- D. Accessibility testing

Correct Answer: D



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