



**Vendor:** Microsoft

**Exam Code:** 70-565

**Exam Name:** PRO: Designing and Developing Enterprise Applications Using the Microsoft .NET Framework 3.5

**Version:** DEMO

1: You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5. You purchase a logging component along with the source code from a third-party vendor. New versions of the component are frequently released by the same vendor. You require certain additional features that might be present in a future release of the logging component. You need to consume the logging component in the application. You also need to ensure that the component can be replaced with a new version by using the minimum amount of development effort. What should you do?

A.Reference the logging component in the application.Implement additional features as a separate utility class within the application.

B.Add the source code for the logging component in your current application.Implement additional features within the application.

C.Wrap the logging component in a class library.Implement additional features in the class library.Reference the class library in the application.

D.Modify the source code for the logging component.Implement additional features by modifying the code.Reference the modified logging component in the application.

**Correct Answers: C**

2: You are creating multiple enterprise applications by using the .NET Framework 3.5. All the applications will be deployed on a single computer. You purchase a COM component from a third-party vendor. You plan to reuse a specific functionality of the component in the applications. The COM component will be used by 25 developers who work on different applications. You need to ensure that the types referenced in the COM component are compatible among the developers. What should you do?

A.Use the P/Invoke service.

B.Obtain the primary interop assembly from the vendor.

C.Use the [ComVisible] attribute for all the application assemblies.

D.Ensure that each developer creates a wrapper class for the COM component.

**Correct Answers: B**

3: You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5. The application includes two namespaces named Contoso.Security and Contoso.Log. Classes in the Contoso.Security namespace will be distributed for use in a data access layer component. Classes in the two namespaces will be distributed for use by other client components in the application. Not all client components will use both the Contoso.Security and Contoso.Log classes. You plan to design a strategy for component reuse. You need to ensure that unnecessary code is not distributed to any client application. You also need to ensure that all necessary code is available to dependent components. What should you do?

A.Create one assembly for the Contoso.Security and Contoso.Log namespace classes.Reference the assembly from the data access layer components.

B.Create one assembly for the Contoso.Security namespace classes.Create one assembly for the Contoso.Log namespace classes.Reference the Contoso.Security assembly from the data access layer components.

C.Create one assembly for the Contoso.Security namespace classes.Create one assembly for the Contoso.Log namespace classes.Reference the Contoso.Log assembly from the data access layer

components.

D.Create one assembly for the Contoso.Security namespace classes.Create one assembly for the Contoso.Log namespace classes.Reference the two assemblies from the data access layer components.

**Correct Answers: B**

4: You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5. The application includes a server component that receives DataTable objects from client components. Each DataTable object contains approximately 2,500,000 rows. The server component must load new and updated records from the DataTable objects into a table in a Microsoft SQL Server 2005 database. The schemas of the database table and the DataTable objects are identical. The database is located on a different server than the application server component. You need to identify a method that provides the best performance to load the data into the database table. Which method should you use ?

- A.Use the bcp utility.
- B.Use a SqlBulkCopy object.
- C.Use the BULK INSERT statement.
- D.Use a parameterized stored procedure.

**Correct Answers: B**

5: You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5. The application contains several components that interact to implement complex business logic. You need to describe the message flows among the components. What should you do?

- A.Create a state diagram for the component.
- B.Create a component diagram for the application.
- C.Create a Use case diagram for the business logic.
- D.Create a sequence diagram for the business logic.

**Correct Answers: D**

6: You are designing a class library by using the .NET Framework 3.5 and Microsoft SQL Server 2008.

The class library will be used by several .NET applications. The class library will contain a utility class that executes advanced mathematical operations.

You need to design the utility class to meet the following requirements:

It can be accessed only by other classes in the same .NET assembly.

It can be instantiated only once.

What should you do?

- A.Create a public class along with an internal constructor.
- B.Create an internal class along with an internal constructor.
- C.Create a public class along with a private constructor. Expose a public static method that returns an instance of the class.
- D.Create an internal class along with a private constructor. Expose an internal static method that returns an instance of the class.

**Correct Answers: D**

7: You are designing an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.

The application implements the following design:

Client applications will be accessed by using a mobile device or a browser.

All client applications will connect to a Windows Communication Foundation (WCF) service.

All client applications will use Microsoft SQL Server Compact 3.5.

You need to ensure that the client applications can perform the following tasks:

Maintain local copies of data offline.

Synchronize changes.

Detect data conflicts.

What should you do?

A. Use LINQ to SQL.

B. Use merge replication.

C. Use Entity Framework.

D. Use the Microsoft Sync Framework.

**Correct Answers: D**

8: You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.

You plan to implement a data access component to retrieve product data from a corporate database.

The component will return data for the products that meet the defined criteria.

You need to ensure that the component conforms to the following requirements:

Access to the database is provided only when necessary.

The database schema is hidden from the application that calls the component.

Calls are returned by the component as quickly as possible.

What should you do?

A. Create a typed collection. Use System.Linq to verify the cached collection. Retrieve all products if data is not cached.

B. Create a typed collection. Use System.Linq to verify the cached collection. Retrieve a subset of products if data is not cached.

C. Create a DataTable object. Use the Select method to verify whether the object contains the necessary data. Retrieve all products if data is not cached.

D. Create a DataTable object. Use the Select method to verify whether the object contains the necessary data. Retrieve a subset of products if data is not cached.

**Correct Answers: B**

9: You create a Windows Communication Foundation (WCF) application by using Microsoft Visual Studio 2008 and the .NET Framework 3.5.

You create a WCF service by using the following code segment. (Line numbers are included for reference only.)

```
01 [ServiceContract]
```

```
02 public interface IContosoService
```

```

03 {
04     [OperationContract]
05
06     void ProcessTransaction();
07 }
08
09 public class ContosoService : IContosoService
10 {
11     public void ProcessTransaction() {
12         try {
13             BusinessComponent.ProcessTransaction();
14         }
15         catch (ApplicationException appEx) {
16
17         }
18     }
19 }

```

The `BusinessComponent.ProcessTransaction` method will only throw exceptions from the `ApplicationException` type. You plan to debug the WCF service.

You need to ensure that the WCF service meets the following requirements:

- Detailed exception information is provided to the client application.

- Subsequent calls can be issued to the service by using the same proxy instance after an exception is caught in the client application.

What should you do?

- A. Add the following code segment at line 08. `[ServiceBehavior(IncludeExceptionDetailInFaults=true)]` Add the following code segment at line 16. `throw appEx;`
- B. Add the following code segment at line 05. `[FaultContract(typeof(ApplicationException))]` Add the following code segment at line 16. `throw appEx;`
- C. Add the following code segment at line 08. `[ServiceBehavior(IncludeExceptionDetailInFaults=true)]` Add the following code segment at line 16. `throw new FaultException<ApplicationException>(appEx);`
- D. Add the following code segment at line 05. `[FaultContract(typeof(ApplicationException))]` Add the following code segment at line 16. `throw new FaultException<ApplicationException>(appEx);`

**Correct Answers: D**

10: You are designing business layer classes by using the .NET Framework 3.5 and Microsoft SQL Server 2008.

The business classes will be used by a banking application. The class diagram for the business classes is as shown in the exhibit. (Click the Exhibit button.)

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

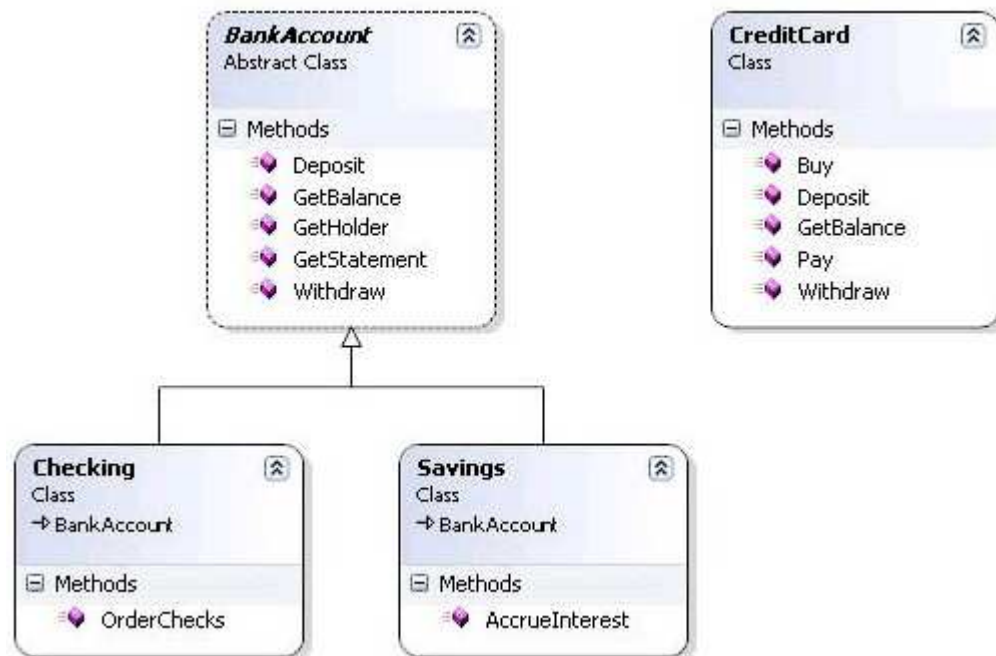
- Users are allowed to select only one of the three operations `withdraw`, `deposit`, and `get balance`.
- Access to other members of the business objects is disallowed.

Future types of accounts can be handled.

Use of the operations directly from the class is disallowed.

Child classes inherited from the business layer classes are prevented from overriding these operations.

What should you do?



A. Create a new abstract class. Add the Deposit, Withdraw, and GetBalance methods to the new class. Change the BankAccount and CreditCard classes to inherit from the new class. Use the abstract class to handle operations to any object in the bank hierarchy.

B. Create a new concrete class. Add the Deposit, Withdraw, and GetBalance methods to the new class. Change the BankAccount and CreditCard classes to inherit from the new class. Use an instance of the concrete class to handle operations to any object in the bank hierarchy.

C. Create a new interface. Add the Deposit, Withdraw, and GetBalance methods to the new interface. Change the BankAccount and CreditCard classes to explicitly implement the members of the new interface. Use the interface to handle operations to any object in the bank hierarchy.

D. Create a new interface. Add the Deposit, Withdraw, and GetBalance methods to the new interface. Change the BankAccount and CreditCard classes to implicitly implement the members of the new interface. Use the interface to handle operations to any object in the bank hierarchy.

**Correct Answers: C**

11: You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5. You plan to add an existing .NET component into the current application. The .NET component has insufficient documentation. The structure of the classes in the component must be analyzed before they are incorporated in the application. You need to analyze the members in the component and the dependencies among them. What should you do?

A. Enable logging on the component.

B. Run a code profiler on the component.

C. Create a class diagram for the component.

D.Create a sequence diagram for the component.

**Correct Answers: C**

12: You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5. You have a pre-defined database schema. You plan to design a business object layer in the application. The business object layer must map each database table in the schema to an object in the layer. The application must provide support for different database providers. You need to identify a technology to implement the business object layer by using the minimum amount of development effort. Which technology should you use?

A.LINQ to SQL

B.LINQ to XML

C.Microsoft Sync Framework

D.ADO.NET Entity Framework

**Correct Answers: D**

13: You create a Windows Forms application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5. The application is installed on several computers on the network. All unhandled and unexpected exceptions must be logged to a central location to allow reporting for administrator users. You need to record the exception details. What should you do?

A.Write the details to the local XML file.

B.Write the events to the Windows event log.

C.Write the details to the Microsoft SQL Server database.

D.Log the events by using Event Tracing for Windows.

**Correct Answers: C**

14: You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.

The application communicates with other systems by using a proprietary messaging format. The company must monitor the response-time of the communication.

The monitoring strategy of the application must meet the following requirements:

Information must be logged to a central location.

Historical data must not be overwritten without administrator action.

Information can be displayed in real time.

Information can be displayed in graphical format.

Information can be displayed along with system-supplied performance data.

You need to design a strategy that monitors response-times to meet the requirements.

What should you do?

A.Install the network monitoring tool to display the amount of data processed by the servers.

B.Record the message response-times in a log file by using the System.IO.Log namespace.

C.Record the message response-times in the Windows Event Log service by using the System.Diagnostics.EventLog namespace.

D.Create custom performance counters for the message response-times. Use the System.Diagnostics.PerformanceCounter namespace.

**Correct Answers: D**

15: You create an application by using Microsoft Visual Studio .NET 2008 and the .NET Framework 3.5.

The application uses a Web farm to host several Windows Communication Foundation (WCF) services. The services receive messages from several clients over the Internet that implement the same data contract.

You develop a new version of the data contract. An older version of the data contract had elements that were optional that are now required. Default element is an acceptable variation for the optional element.

Not all customers will be able to implement the new version of the data contract before you complete deployment to the entire Web farm.

You need to define a validation strategy that will ensure that all the clients can successfully communicate by using the new data contract.

What should you do?

A. Use a message filter.

B. Use a message inspector.

C. Use a custom WCF transport.

D. Use a rules-driven WCF router.

**Correct Answers: B**