Exam : Microsoft 70-547

Title : Design and Develop Web-Basd Apps by Using MS.NET Frmwk

Update : Demo

1. You create Web-based applications. You are creating an Internet banking application. The application will be used by bank account holders.

You are creating a method to withdraw money from an account. The method must change the account balance according to one of the following rules:

You are translating the specification given here into pseudo code. You start by writing the following code.

You need to insert the correct pseudo code.

Which code segment should you insert?

A. If amount < balance then balance - = amount

If amount < balance + 500 then balance = balance - (amount + 35)

If amount > balance + 500 then throw exception

B. If amount <= balance then balance - = amount

If amount <= balance + 500 then balance = balance - (amount + 35)

If amount > balance + 500 then throw exception

C. If amount < balance then balance - = amount

Else If amount < balance + 500 then balance = balance - (amount + 35)

Else throw exception

D. If amount <= balance then balance - = amount

Else If amount <= balance + 500 then balance = balance - (amount + 35)

Else throw exception

Answer: D

2. You create Web-based client applications. You deploy an application on the company extranet. The sales team requires notification when an order total exceeds the company's approval levels.

The application requires you to send an e-mail to the sales manager to receive approval for any order over $100,000. You must meet the following constraints to achieve this requirement:

The design team plans to use the SimpleMailWebEventProvider class of the health monitoring APIs to send the e-mail.

You need to evaluate whether the design meets the requirement.

What should you recommend?

A. The design meets the requirement.

B. The design does not meet the requirement. Though there is a built-in event handler to process all errors, you need to write a custom provider to send e-mail to the sales manager.

C. The design does not meet the requirement. You need to write a custom event handler to respond to an application specific trigger. You can use a built-in provider to send e-mail to the sales manager.

D. The design does not meet the requirement. You need to write a custom event handler to respond to an application specific trigger. You need a custom provider to write e-mail to the sales manager.

Answer: C

3. You create Web-based client applications. You create a component named Orders for a company named Northwind Traders.

This component is used to retrieve and update data in the Orders table of the company's database. The

schema of the Orders table is as shown in the following Exhibit. (Click the Exhibit button.)

The Orders component permits the client application to perform the following tasks:

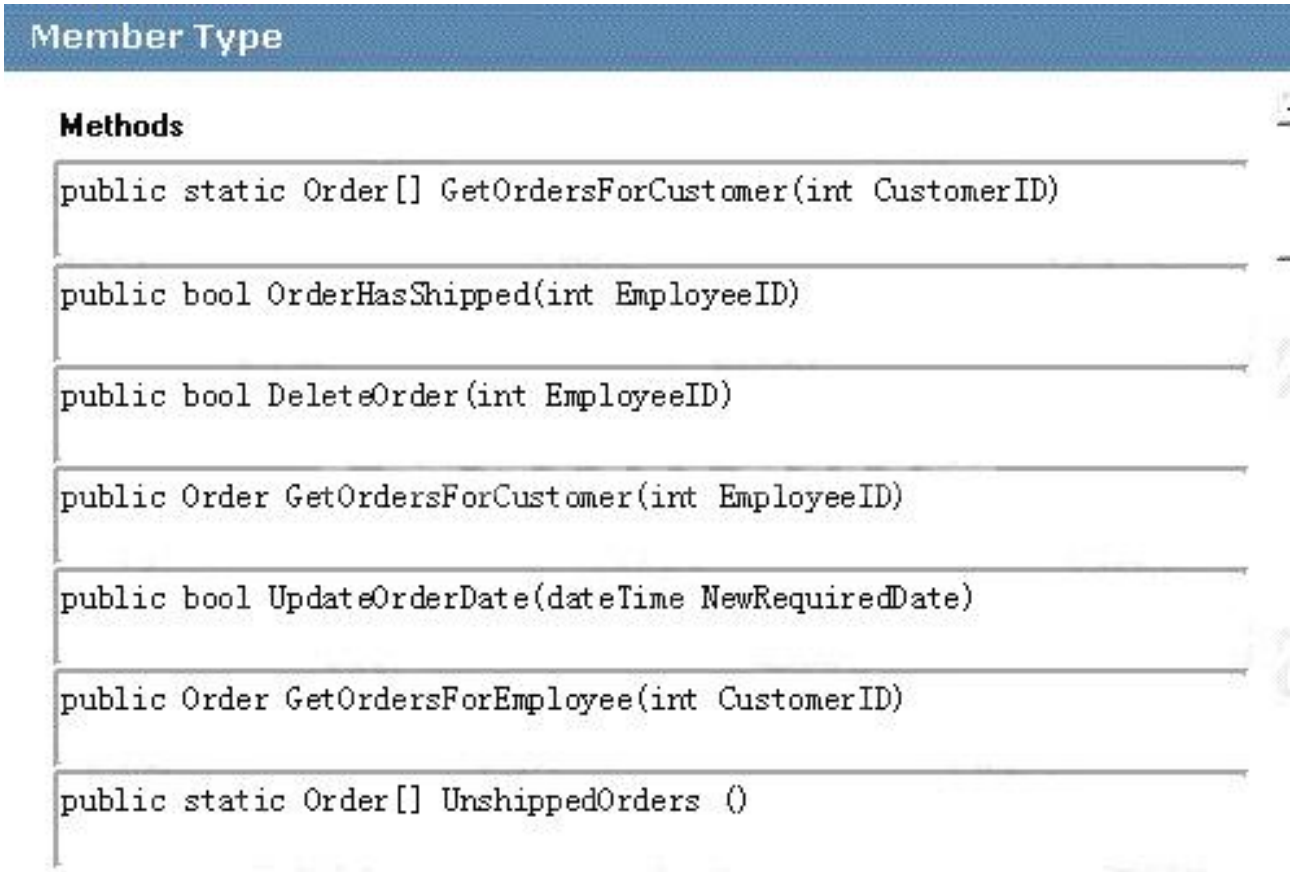
An instance of the Order class represents a single order that is identified by the OrderID parameter. An instance of the Order class permits the client application to perform the following tasks:

You need to create the design for the component.

What should you do?

To answer, drag the appropriate members to the correct locations in the member type column.

Answer:



Property

```
public Order UnshippedOrders(int EmployeeID)

public bool UpdateOrderDate(int EmployeeID, dateTime
NewRequiredDate)

public bool DeleteOrder()

public bool OrderHasShipped

public static Order[] GetOrdersForEmployee(int EmployeeID)

public Orders(int OrderID)
```

4. You create Web-based client applications. You create a class library that is named Fabrikam.dll. Ten applications will use Fabrikam.dll.

Fabrikam.dll contains two classes that are named Order and OrderDetail. The class library must meet the following requirements:

You need to design the interface for the OrderDetail class.

Which code segment should you choose?

A. public sealed class OrderDetail {

internal OrderDetail(){

...

}

B. internal sealed class OrderDetail {

internal OrderDetail() {

...

}

}

C. public sealed class OrderDetail {

public OrderDetail() {

...

}

}

D. public sealed class OrderDetail {

private OrderDetail() {

...

}

}

Answer: A

5. You create Web-based client applications. You are creating a class named Product. The Product class will be used by a Web-based application to retrieve and modify product information.

When you create an instance of the Product class, you retrieve the current information from the Products table. The Product class contains a static member named CreateNewProduct. The CreateNewProduct method is used to add a new product to the database and return the primary key. The Products table contains the following fields:

You need to create the constructor for the Product class.

Which code segment should you use?

A. public Product(int ProductID, string ProductName, string Description, int CategoryID, decimal CurrentPrice) {

...}

B. public Product(int ProductID, string ProductName) {

...

}

C. public Product() {

...

}

D. public Product(int ProductID)?{

...

}

Answer: D

6. You create components for Web-based client applications. You are creating a BankAccount class. The BankAccount class contains an AccountNumber property and a CreateAccount method. The CreateAccount method is used to create a new account. The method generates a unique random value for the actNumber field.

You need to ensure that the BankAccount class is extendable, and that it serves as the base class for other derived classes. You also need to ensure that each derived class can have its own guidelines to generate account numbers in the CreateAccount method.

Which code segment should you use?

A. Public Class BankAccount

Protected actNumber As Long

Public ReadOnly Property AccountNumber() As Long

Get

Return actNumber

End Get


```
    End Property
    Public Overridable Function CreateAccount() As BankAccount
    ...
    End Function
  End Class
```

B.

```
Public Class BankAccount
    Private actNumber As Long
    Public ReadOnly Property AccountNumber() As Long
      Get
        Return actNumber
      End Get
    End Property
    Public Overridable Function CreateAccount() As BankAccount
    ...
    End Function
  End Class
```

C.

```
Public Class BankAccount
    Protected actNumber As Long
    Public ReadOnly Property AccountNumber() As Long
      Get
        Return actNumber
      End Get
    End Property
    Public Function CreateAccount() As BankAccount
    ...
    End Function
  End Class
```

D.

```
Public Class BankAccount
    Private actNumber As Long
```



```
    Public ReadOnly Property AccountNumber() As Long
      Get
        Return actNumber
      End Get
    End Property
    Public Function CreateAccount() As BankAccount
  ...
    End Function
  End Class
```

Answer: A

7. You create Web-based client applications. You are creating a class library that will be used by an e-commerce Web-based application. The library has an abstract class that is named Product. The Product class serves as a base class for the other classes and provides a default ProductID property. Each class other than the base class represents a type of product that is sold by your company. There is a ProductID property and a GetProductDetails procedure for each product type.

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

What should you include in the Product class?

A. a MustOverride ProductID property and an overridable GetProductDetails procedure

B. an overridable ProductID property and an overridable GetProductDetails procedure

C. an overridable ProductID property and a MustOverride GetProductDetails procedure

D. a MustOverride ProductID property and a MustOverride GetProductDetails procedure

Answer: C

8. You create Web-based applications. You create a loan application form.

The loan application form is used to calculate the monthly payment of loans. The monthly payment is

based on the loan amount, rate, and number of months. The form contains four text boxes and a button. There are no other controls in the form. The application event handler has the following lines of code. (Line numbers are included for reference only.)

You must prevent exceptions whenever possible to meet the application requirements.

You need to evaluate the current exception handling mechanism.

What should you conclude?

A. The current exception handling mechanism meets the requirements. Nothing needs to be changed.

B. The current exception handling mechanism does not meet the requirements. A required field validator and a range validator control must be added to validate each text box before the button is clicked.

C. The current exception handling mechanism does not meet the requirements. A required field validator control must be added to validate each text box before the button is clicked.

D. The current exception handling mechanism does not meet the requirements. A regular expression validator control must be added to validate each text box before the button is clicked.

Answer: B

9. You create Web-based client applications. You are reviewing a Web application page that populates the list of all employees for your company.

The following code segment loads the list of employees from a database.

You analyze the code segment. You find that the database connection fails to close properly when the GetEmployees method throws an exception.

You need to recommend a change in the code segment to ensure that every possible code path closes the database connection.

Which code segment should you recommend?

A. ' Create the connection and open it

```
Using conn As DbConnection = factory.CreateConnection()
    conn.ConnectionString = connString.ConnectionString
    conn.Open()
    ' Get the employees. The connection to the database
    ' is given as parameter
    lstEmployees = GetEmployees(conn)
End Using
```

B. ' Create the connection and open it

```
Dim conn As DbConnection = factory.CreateConnection()
conn.ConnectionString = connString.ConnectionString
conn.Open()
' Get the employees. The connection to the database is
' given as parameter
lstEmployees = GetEmployees(conn)
If lstEmployees Is Nothing Then
    conn.Dispose()
Else
    conn.Close()
End If
```

C. Dim coll As HandleCollector = _

```
  New HandleCollector("Connections", 0, 5)
' Create the connection and open it
Dim conn As DbConnection = factory.CreateConnection()
conn.ConnectionString = connString.ConnectionString
conn.Open()
coll.Add()
' Get the employees. The connection to the database is
' given as parameter
```


lstEmployees = GetEmployees(conn)

' Close the connection to the employee data store

conn.Close()

coll.Remove()

D. Using factory As IDisposable = _

TryCast(DbProviderFactories.GetFactory(

"System.Data.SqlClient"), IDisposable)

Dim conn As DbConnection = factory.CreateConnection()

conn.ConnectionString = connString.ConnectionString

conn.Open()

' Get the employees. The connection to the database

' is given as parameter

lstEmployees = GetEmployees(conn)

End Using

Answer: A

10. You create Web-based client applications. You are reviewing a Web application page that populates a list of all employees of your company.

You analyze code and find that the Web application page does not prevent exceptions from traveling to the browser.

You need to ensure that the Web application page intercepts exceptions and presents an error message to the browser.

What change should you suggest?

A. Add the following code segment to the Web.config file.

<system.web>

<compilation debug="true"/>

</system.web>

B. Add the following code segment to the page.

Protected Sub Page_Error(ByVal sender As Object, _


```
ByVal e As System.EventArgs) Handles Me.Error
Response.Redirect("error.aspx")
End Sub
```

C. Add the following code segment to the Web.config file.

```
<system.web>
    <customErrors mode="Off"/>
</system.web>
```

D. Change the Load event handler to the following code segment.

```
Protected Sub Page_Load(ByVal sender As Object, _
ByVal e As System.EventArgs) Handles Me.Load
  Try
    LoadEmployees()
  Catch
    Response.Redirect("error.aspx")
  End Try
End Sub
```

Answer: B

11. You create Web-based client applications. You create a Web site that will be used to simulate different types of loans. You are writing a method to calculate the payment on a simple loan.

You write the following lines of code for the method. (Comments are included for reference only.)

