

# 70-547

PRO: Designing and Developing Web-Based Applications by Using the Microsoft .NET Framework

DEMO

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**QUESTION NO: 1**

You work as the Enterprise application developer at Certkiller.com. The Certkiller.com network consists of a single Active Directory domain named Certkiller.com. All servers in the domain run Windows Server 2003. The design of applications forms part of your responsibilities at Certkiller.com. Certkiller.com operates as an examination Web site.

You are developing a Web-based application for Certkiller.com. This application, upon completion, should allow users to take various online examinations. Every time a user takes an online test, you want the following business rules to be met:

1. Display a congratulatory message when a user passes a test.
2. Display a motivational message when a user fails a test.
3. Display a different message when a user meets the minimum requirements for a test.

The following Exhibit illustrates the pseudo-code that you wrote to meet these requirements:

Exhibit:

```
if pass
display congratulatory message
else if meeting minimum requirements
display different message
else
display motivational message
```

What conclusion can you draw?

- A. None of the requirements will be met.
- B. All the requirements will be met.
- C. All requirements, except the display of a different message when the user meets the minimum requirements, will be met.
- D. All the requirements, except the display of the motivational message when a user fails a test, will be met.

**Answer: B**

**Explanation:**

All the requirements for the application will be met. A different message will be displayed in the event of the user passing, failing or just meeting the minimum requirements for a test. If the user passes, then the congratulatory message will be displayed, if the user meets the minimum requirements then the different message will be displayed. Otherwise the user fails the test in which case the motivational message will be displayed.

Incorrect answers:

- A: This is incorrect because this pseudo-code will yield the desired results.
  - C: This is only partly correct since the code will also result in the display of the different message in case the user meets the minimum requirements of a test.
  - D: This is only partly correct since the code will result in displaying the motivational message in case the user fails the test
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## QUESTION NO: 2

You work as the Enterprise application developer at Certkiller.com. The Certkiller.com network consists of a single Active Directory domain named Certkiller.com. All servers in the domain run Windows Server 2003. The design of applications forms part of your responsibilities at Certkiller.com.

You are currently developing Web-based applications for Certkiller.com. One of these applications that you developed is destined to allow the user to display multiple lines in a TextBox control. Each of the lines in the TextBox control is concatenated into a single string. Each message in the TextBox control will consist of more than five lines.

You now need to configure this Web-based application to meet these requirements. What should you do?

- A. You should include calling the Concat method in the application using a String instance.
- B. You should include calling the Append method in the application using a String instance.
- C. You should include calling the Add method in the application using a StringBuilder instance.
- D. You should include calling the Append method in the application using a StringBuilder instance.

**Answer: D**

### Explanation:

The StringBuilder instance has a larger internal buffer to handle larger strings and since you will have at least five lines concatenated in the same string, you should make use of a StringBuilder instance to call the Append method. Strings are immutable and every time a string is concatenated, at least two strings are de-referenced, but stay in memory until Garbage collection. The StringBuilder, due to its larger internal buffer is capable of maintaining a large internal buffer and only extends the buffer than required to do so. This makes using the StringBuilder unstance for efficient.

Incorrect answers:

A: You should not make use of the String class as it is unable to modify its contents in place. The String class will always return a new string when the contents are changed and this will result in a drop in the performance.

B: This is partly correct since you need to call the Append method, however you should make use of a StringBuilder instance and not the String instance.

C: This is incorrect as there is no such method named Add method. You need to make use of the Append method when using the StringBuilder class.

## QUESTION NO: 3

You work as the Enterprise application developer at Certkiller.com. The Certkiller.com network consists of a single Active Directory domain named

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Certkiller.com. All servers in the domain run Windows Server 2003. There is only one Web server at Certkiller.com. The design of applications forms part of your responsibilities at Certkiller.com. Certkiller.com operates as a manufacturing company.

You are currently developing Web-based applications for Certkiller.com. All the departments at Certkiller.com will have its own Web application for custom content and functionality that is department-specific. All these Web applications make use of third party .NET 1.1 components. These components are all shared by other Web applications within Certkiller.com.

You must meet the following requirements in your development of these Web-based applications:

1. The Web-based applications must require the shared components.
2. The Web-based applications must also require ASP.NET 2.0 features.

You should develop these applications with the least amount of developer effort and time. To this end you need to take a decision on how you will meet these requirements in your solution. What should you do?

- A. You should upgrade the shared components to .NET 2.0
- B. You should enable directory browsing on the Web Server to access the shared components.
- C. You should place the shared components in the same directory as the main Web application.
- D. Since ASP.NET 2.0 Web applications are compatible with .NET 1.1 components you should not do anything.

**Answer: D**

**Explanation:**

The ASP.NET 2.0 and ASP.NET 1.1 runtime can run on the same machine without any additional configuration settings required. The ASP.Net 1.1 components can benefit from the performance options that are available in ASP.NET 2.0 and ASP.NET 2.0 applications can continue to communicate with the ASP.NET 1.1 components. Thus there is no need to do anything.

Incorrect answers:

A: There is no need to upgrade the shared components to ASP.NET 2.0. This option would not be available if the components are third party and data access components should then be redesigned to take full advantage of the ASP.NET 2.0 benefits. In fact it would be simpler upgrading an ASP.NET 1.1 site to ASP.NET 2.0.

B: You should not enable directory browsing on the Web server because it can allow any user to see the directory structure of your Web site. And furthermore, directory browsing will not allow different versions of ASP.NET to run.

C: The shared components should not be placed in the same directory as the main Web application. Merging the files into the same directory will create a problem with other Web applications accessing the shared component.

**QUESTION NO: 4**