GSSP-NET $^{Q\&As}$

GIAC GIAC Secure Software Programmer - C#.NET

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QUESTION 1

Peter works as a Software Developer for PentaSoft Inc. He develops an application, named App1, using Visual C# .NET. The application is intended to deal with several file input and output operations. He uses the following try structure in the application code to handle errors that occur during the execution of App1. try { //Statements that might cause a runtime error. } catch (System.IO.FileNotFoundException ex) { //Statements } catch (System.IO.PathTooLongException ex)

{ //Statements }

catch (System.IO.IOException ex) { //Statements } catch (Exception ex) { //Statements } What will happen if an exception of type System.IO.DirectoryNotFoundException occurs in the try block?

A. The catch block that handles an exception of type IOException will be executed.

B. The catch block that handles an exception of type Exception will be executed.

C. The catch block that handles an exception of type FileNotFoundException will be executed.

D. The catch block that handles an exception of type PathTooLongException will be executed.

Correct Answer: A

QUESTION 2

You work as a Software Developer for ManSoft Inc. The company has several branches worldwide. The company uses Visual Studio.NET 2005 as its application development platform. You create an application that will be used by all the branches of the company. You want to use declarative attributes that configure security for a serviced component of the application. Which of the following attributes will you use in order to support component, interface, or method level role checks?

A. SecureMethod

B. ComponentAccessControl

C. SecurityRole

D. ApplicationAccessControl

Correct Answer: D

QUESTION 3

You work as a Software Developer for ABC Inc. The company uses Visual Studio.NET 2008 as its application development platform. You are creating an ASP.NET Web application using the .NET Framework 3.5. The application stores sensitive profile data in a MS SQL Server 2008 database. You are required to make sure that the profile data never stored in clear text. What will you do?

A. Create a strongly typed custom ProfileProvider class. In the ProfileProvider class, encrypt the provided information before storing it in the database.

B. Use the ASP.NET IIS Registration Tool to encrypt the connection string to connect to the SQL Server database.

C. Create a custom profile provider. In the custom provider, encrypt the provided information before storing it in the database.

D. Enable the SSL encryption for the SQL Server connections.

Correct Answer: C

QUESTION 4

Which of the following options is not a primary objective of the WS-Security 1.1 specification?

A. Integrity

B. Confidentiality

C. Authentication

D. Validation

Correct Answer: D

QUESTION 5

You work as a Software Developer for ManSoft Inc. You create an application using Visual Studio .NET

2005. You write the following code snippet in the application:

int amt = 50;

String s = "John gave me " + amt + " dollars";

Console.WriteLine(s);

What will be the output of the above code?

A. "John gave me amt dollars"

B. "John gave me 50 dollars"

C. Integer variable cannot concatenate with the string

D. Invalid type cast exception

Correct Answer: B

QUESTION 6

You work as an Enterprise Application Developer for ABC Inc. The company uses Visual Studio .NET 2008 as its application development platform. You are creating an Enterprise application using .NET Framework 3.5. The

application must

meet the following requirements:

l The application loads XML from streams.

l The application creates XML from scratch by using functional construction.

l The application queries XML using XPath-like axes.

l The application validates XML trees using XSD.

What will you do to meet these requirements with least development efforts?

A. Use LINQ to XML.

B. Use LINQ to SQL.

C. Use the XML Schema Definition Tool.

D. Use ADO.NET Data Services.

Correct Answer: A

QUESTION 7

Maria works as a Software Developer for BlueWell Inc. She develops an application, named App1, using Visual C# .NET. App1 contains a Form control, named Form1, for collecting users\\' contact information. Form1 contains a TextBox control, named TextBox1. App1 requires users to enter data in TextBox1. Maria writes a method, named Method1, to validate the entered data. She adds an ErrorProvider control, named Control1, to Form1. Maria wants to ensure that App1 notifies the users if they enter invalid data in TextBox1. Which of the following code will she use to accomplish this?

A. public void TextBox1_Validating(object sender, System.CancelEventArgs e) { if(Method1() == false) { Control1.UpdateBinding(); } }

B. public void TextBox1_Validating(object sender, System.ComponentModel.CancelEventArgs e) { if(Method1() == false) { Control1.SetError(TextBox1, "Invalid Email Entry."); } }

C. public void TextBox1_Validated(object sender, System.ComponentModel.CancelEventArgs e) { if(Method1() == false) { Control1.UpdateBinding(); } }

D. public void TextBox1_Validated(object sender, System.ComponentModel.CancelEventArgs e) { if(Method1() == false) { Control1.SetError(TextBox1, "Invalid Email Entry."); } }

Correct Answer: B

QUESTION 8

Peter works as a Software Developer for PaulTech Inc. He develops an application for office management, using Visual C# .NET. He creates an OleDbConnection object, named Pcon. He wants to create an OleDbCommand object to retrieve employee details. Which of the following statements will Peter use to set the CommandText and Connection properties to accomplish the required task?

Each correct answer represents a part of the solution. Choose three.

A. OleDbCommand PCommand = new OleDbCommand("sp_GetDetails", PCon);

B. PCommand.CommandType = "SELECT * FROM Employees";

C. PCommand.Connection = Pcon;

D. PCommand.CommandText = "SELECT * FROM Employees";

E. PCommand.SetConnection (PCon);

F. OleDbCommand PCommand = new OleDbCommand();

Correct Answer: CDF

QUESTION 9

Which of the following code snippets is an example of tight encapsulation?

A. private int x; public void fun(){x=5;}

B. private int x; private void fun(){x=5;}

C. public int x; public void fun() {x=5;}

D. protected int x; protected void fun(){x=5;}

E. int x; public void fun(){x=5;}

Correct Answer: A

QUESTION 10

You work as a Software Developer for ABC Inc. The company uses Visual Studio .NET as its application development platform. You create a Windows Forms application by using the .NET Framework. The application executes a background thread. You are required to create the thread to exit, but you must also inform the main thread when the background thread has finished. What will you do to accomplish this?

A. Call the Join method of the Thread class.

B. Call the Sleep method of the Thread class.

C. Call the Abort method of the Thread class.

D. Call the Interrupt method of the Thread class.

Correct Answer: A

QUESTION 11

Sam works as a Software Developer for GenTech Inc. The company uses Visual Studio .NET as its application development platform. Sam develops an application named App1 using Visual C# .NET. App1 uses a non-COM DLL named Value1.dll, which contains unmanaged code. Sam wants to write a method named Method1 in Value1.dll. He wants to use Method1 for parsing a string into an array of string values and an array of numbers. He decides to specify three parameters for Method1. The first parameter will contain a static string value. After executing Method1, the second parameter will contain all string values found in the first parameter, and the third parameter will contain all integer values found in the first parameter. Sam wants to enable App1 to call this function. Which of the following code will he use to accomplish this?

A. int Method1 Lib "Value1.dll"(string, out string, out int);

B. int Method1 Lib "Value1.dll"(string, ref string, ref int);

C. int Method1 Lib "Value1.dll"(ref string, string, int);

D. int Method1 Lib "Value1.dll"(string, string, int);

Correct Answer: A

QUESTION 12

You work as a Software Developer for Mansoft Inc. You create an application and use it to create users as members of the local Users group. Which of the following code snippets imperatively demands that the current user is a member of the local Users group?

Each correct answer represents a complete solution. Choose all that apply.

A. System.AppDomain.CurrentDomain.SetPrincipalPolicy(PrincipalPolicy.WindowsPrincipal); PrincipalPermission MyPermission = new PrincipalPermission(null, @"BUILTIN\Users", true); MyPermission.Demand();

B. PrincipalPermission MyPermission = new PrincipalPermission(null, @"BUILTIN\Users", true); MyPermission.Demand();

C. System.AppDomain.CurrentDomain.SetPrincipalPolicy(PrincipalPolicy.WindowsPrincipal); PrincipalPermission MyPermission = new PrincipalPermission(null, @"Users", true); MyPermission.Demand();

D. PrincipalPermission MyPermission = new PrincipalPermission(null, @"Users", true); MyPermission.Demand();

Correct Answer: AC

QUESTION 13

Allen works as a Software Developer for ABC Inc. The company uses Visual Studio .NET 2005 as its application development platform. Allen creates an application that will be used to handle security information related to the company. He wants to secure the application by using the most secure authentication method. The method should have a strong key for encryption and send the encrypted password across the network. Which of the following authentication methods will Allen use to accomplish the task?

A. Integrated Windows authentication

B. Basic authentication

C. Certificate-based authentication

D. Digest authentication

Correct Answer: C

QUESTION 14

You work as an Application Developer for ABC Inc. You are assigned with developing a Web site that will handle information related to monthly sales of the company. You wish to secure the Web site so that only employees of the Accounts department can view the Web pages. You need to create roles for the employees of this department. The user account information will be stored in a SQL Server database named Database. You decide to do all this by using the Web Site Administration Tool. Which of the following types of security will you use to accomplish the task?

A. Basic authentication

B. Integrated Microsoft Windows authentication

C. Forms-based authentication

D. Digest authentication

Correct Answer: C

QUESTION 15

Kathy works as a Software Developer for BlueWell Inc. She creates a serviced component named

Com1. She wants to ensure that all the employees of the company are able to use Com1. Therefore, she wants to install Com1 in the Global Assembly Cache (GAC). Before the installation, she wants to register the serviced component manually with COM+. Which of the following tools will Kathy use to register Com1?

A. Al.exe

B. Regsvcs.exe

C. Regasm.exe

D. Mscorcfg.msc

Correct Answer: B

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