

Accenture Dot Net Interview Questions

C#.NET

- 1.What is private and internal access specifiers?
- 2.Can we assign NULL to struct variable?
- 3.What is boxing and unboxing?
- 4.What is delegate and event?
- 5.Do we have a multiple inheritance in C#?
No.
- 6.Can we have a private virtual methods?
- 7.What is polymorphism?

AJAX

- 1.What is AJAX?
-Asynchronous Javascript And Xml
-used for partial page update
-Since part of the page will be posted to the server, less burden on the server

SOA

- 1.Which binding support the sessions in WCF?
- 2.What is web service stack?
- 3.What are the properties of [webmethod] in web services?
<http://interview-preparation-for-you.blogspot.com/2011/01/webmethod-properties.html>
- 4.What are the wcf instances?

Design patterns

1.What is design pattern and types of design patterns?

A design pattern is a general reusable solution to a commonly occurring problem in software design.

Types of design pattern are

Creational patterns

Structural patterns

Behavioral patterns

SQL Server

- 1.What is PIVOT keyword in sql server?
- 2.What is clustered and non clustered indexes?
- 3.What is SQL Agent in SQL Server?
4. Difference between group by and having?
- 5.

Dotnet Interview Questions Part 11- Accenture

1. What is an interface?
2. What do you know about web service?
3. What is a nullable type?
4. Difference between value type and reference type?
5. Difference between hash table and array list?
6. What is a web service?
7. Diff between string and string builder?
8. Diff between user control and custom control. And how to use them?

Regarding the project:

- 1) Project explanation
- 2) What I have done in the project?
- 3) How asked about the database tables and how they are used in the .NET code
- 4) Currently what I am doing? For this I said there are some performance issues in the project so we are planning to redesign the project.

Then he asked how we are solving the issues?

SQL Server:

1. What is a trigger?
2. What are various types of joins?
3. What are DML and DDL commands?
4. Employee table:

EmpId	EmpName	Place	City	Country

If country is having null values write a query which replaces null values with India?

Ans : `Select EmpId, empname ,place,city ,isnull(Country,'india')`
from Employee

5. Different types of joins
6. Write a query for Self Join?

What is delay signing?

Delay signing allows you to place a shared assembly in the GAC by signing the assembly with just the public key. This allows the assembly to be signed with the private key at a later stage, when the development process is complete and the component or assembly is ready to be deployed. This process enables developers to work with shared assemblies as if they were strongly named, and it secures the private key of the signature from being accessed at different stages of development.

Is there an equivalent of `exit()` for quitting a C# .NET application?

Yes, you can use `System.Environment.Exit(int exitCode)` to exit the application or `Application.Exit()` if it's a Windows Forms app.

Can you prevent your class from being inherited and becoming a base class for some other classes?

Yes, that is what keyword `sealed` in the class definition is for. The developer trying to derive from your class will get a message: cannot inherit from Sealed class WhateverBaseClassName. It is the same concept as final class in Java.

If a base class has a bunch of overloaded constructors, and an inherited class has another bunch of overloaded constructors, can you enforce a call from an inherited constructor to an arbitrary base constructor?

Yes, just place a colon, and then keyword `base` (parameter list to invoke the appropriate constructor) in the overloaded constructor definition inside the inherited class.

I was trying to use an "out int" parameter in one of my functions. How should I declare the variable that I am passing to it?

You should declare the variable as an `int`, but when you pass it in you must specify it as 'out', like the following:

```
int i;
```

```
foo(out i);
```

where `foo` is declared as follows:

```
[return-type] foo(out int o) { }
```

How do I make a DLL in C#?

You need to use the `/target:library` compiler option.

Is XML case-sensitive?

Yes, so `and` and `Are` are different elements.

How do I simulate optional parameters to COM calls?

You must use the `Missing` class and pass `Missing.Value` (in `System.Reflection`) for any values that have optional parameters.

Will `finally` block get executed if the exception had not occurred?

Yes.

What is the C# equivalent of C++ `catch (...)`, which was a catch-all statement for any possible exception? Does C# support try-catch-finally blocks?

Yes. Try-catch-finally blocks are supported by the C# compiler. Here's an example of a try-catch-finally block:

```
using System;
```

```

public class TryTest
{
    static void Main()
    {
        try
        {
            Console.WriteLine("In Try block");
            throw new ArgumentException();
        }
        catch(ArgumentException n1)
        {
            Console.WriteLine("Catch Block");
        }
        finally
        {
            Console.WriteLine("Finally Block");
        }
    }
}

```

Output: In Try Block
Catch Block
Finally Block

If I return out of a try/finally in C#, does the code in the finally-clause run? Yes. The code in the finally always runs. If you return out of the try block, or even if you do a "goto" out of the try, the finally block always runs, as shown in the following example:

```

using System;
class main
{
    public static void Main()
    {
        try
        {
            Console.WriteLine("In Try block");
            return;
        }
        finally
        {
            Console.WriteLine("In Finally block");
        }
    }
}

```

Both **"In Try block"** and **"In Finally block"** will be displayed. Whether the return is in the try block or after the try-finally block, performance is not affected either way. The compiler treats it as if the return were outside the try block anyway. If it's a return without an expression (as it is above), the IL emitted is identical whether the return is inside or outside of the try. If the return has an expression, there's an extra store/load of the value of the expression (since it has to be computed within the try block).

Is there a way to force garbage collection?

Yes. Set all references to null and then call `System.GC.Collect()`. If you need to have some objects destructed, and `System.GC.Collect()` doesn't seem to be doing it for you, you can force finalizers to be run by setting all the references to the object to null and then calling `System.GC.RunFinalizers()`.

Is there regular expression (regex) support available to C# developers?

Yes. The .NET class libraries provide support for regular expressions. Look at the documentation for the `System.Text.RegularExpressions` namespace.

Does C# support properties of array types?

Yes. Here's a simple example: using `System`;

```
class Class1
{
    private string[] MyField;
    public string[] MyProperty
    {
        get { return MyField; }
        set { MyField = value; }
    }
}
class MainClass
{
    public static int Main(string[] args)
    {
        Class1 c = new Class1();
        string[] arr = new string[] { "apple", "banana" };
        c.MyProperty = arr;
        Console.WriteLine(c.MyProperty[0]); // "apple"
        return 0;
    }
}
```

What connections does Microsoft SQL Server support?

Windows Authentication (via Active Directory) and SQL Server authentication (via Microsoft SQL Server username and passwords)

When do you absolutely have to declare a class as abstract (as opposed to free-willed educated choice or decision based on UML diagram)?

When at least one of the methods in the class is abstract. When the class itself is inherited from an abstract class, but not all base abstract methods have been over-ridden.

Why would you use untrusted verification?

Web Services might use it, as well as non-Windows applications.

How is method overriding different from overloading?

When overriding, you change the method behavior for a derived class. Overloading simply involves having a method with the same name within the class.

What is the implicit name of the parameter that gets passed into the class setmethod?

Value, and its datatype depends on whatever variable we are changing.

How do I register my code for use by classic COM clients?

Use the regasm.exe utility to generate a type library (if needed) and the necessary entries in the Windows Registry to make a class available to classic COM clients. Once a class is registered in the Windows Registry with regasm.exe, a COM client can use the class as though it were a COM class

What event can you subscribe to if you want to display information from SQL Print statements?

NOTE: This is objective type question, Please click question title for correct answer.

Q1. Explain the differences between Server-side and Client-side code?

Ans. Server side code will execute at server (where the website is hosted) end, & all the business logic will execute at server end where as client side code will execute at client side (usually written in javascript, vbscript, jscript) at browser end.

Q2. What type of code (server or client) is found in a Code-Behind class?

Ans. Server side code.

Q3. How to make sure that value is entered in an asp:Textbox control?

Ans. Use a RequiredFieldValidator control.

Q4. Which property of a validation control is used to associate it with a server control on that page?

Ans. ControlToValidate property.

Q5. How would you implement inheritance using VB.NET & C#?

Ans. C# Derived Class : Baseclass

VB.NET : Derived Class Inherits Baseclass

Q6. Which method is invoked on the DataAdapter control to load the generated dataset with data? Ans. Fill() method.

Q7. What method is used to explicitly kill a user's session?

Ans. Session.Abandon()

Q8. What property within the asp:gridview control is changed to bind columns manually?

Ans. Autogenerated columns is set to false

Q9. Which method is used to redirect the user to another page without performing a round trip to the client?

Ans. Server.Transfer method.

Q10. How do we use different versions of private assemblies in same application without re-build? Ans. Inside the Assemblyinfo.cs or Assemblyinfo.vb file, we need to specify assembly version.
assembly: AssemblyVersion

Difference between VB.NET and C#.

Difference between VB.NET and C#.

VB.NET :

- 1)no unsigned int
- 2)Loosely typed language
- 3)no operator overloading
- 4)no pointers
- 5)no auto XML documentation

C#.net :

- 1) supports unsigned int
- 2)strongly typed language
- 3)supports operator overloading
- 4)supports pointers
- 5)supports auto XML documentation

Name a feature which is common to all .NET languages?

Name a feature which is common to all .NET languages?

There is only one feature which is common to all languages and that is Garbage collection or GC. This feature is automated which relieves developers of much work. This garbage is disposed only when there is need of memory or stress for memory. GC feature halts the application for few seconds before restarting it.

What is the difference between Master- Detail view and MVG?

Following are the main advantages:-

- 1) MVG Makes effective use of the space.
- 2) Multiple set of detail records can be viewed from a single view

If I write System.exit (0); at the end of the try block, will the finally block still execute ?

No in this case the finally block will not execute because when you say System.exit (0); the control immediately goes out of the program, and thus finally never executes.

whats the similarilty & difference between .dll extension and .exe extension files?

A standard exe application is one that is created using Standard EXE project. It is the most widely used Project type using VB6. Standard EXE application is normally the most widely used among the available

Project types in Visual Basic. Stand-alone programs have an .EXE file extension.

Usage A standard EXE application is normally used when you want to develop a stand-alone application. Examples include calculators, text editors, and other similar applications.

An ActiveX EXE application is one that is created using ActiveX EXE project. ActiveX EXE are widely used in conjunction with standard EXE applications. There are three types of widely used of ActiveX projects. These are:

- a. ActiveX EXE
- b. ActiveX DLL
- c. ActiveX Control

ActiveX EXE: Unlike a stand-alone EXE file, an ActiveX EXE file is designed to work as an OLE server, which is nothing more than a program designed to share information with another program. It has an .EXE file extension.

ActiveX DLL: ActiveX DLL files are not meant to be used by themselves. Instead, these types of files contain subprograms designed to function as building blocks when creating a stand-alone program. It has a .DLL file extension.

ActiveX Control: Unlike an ActiveX DLL or ActiveX EXE file, an ActiveX Control file usually provides both subprograms and a user interface that you can reuse in other programs. It has an .OCX file extension.

Usage

1. The ActiveX EXE/DLL is normally used when you need to build a component that is separate from the main program. The concept is based on COM model.
2. ActiveX DLL/EXE allows multiple applications to share the same code. This allows for scalability of programs, and saves time because you only need to write the code once.
3. ActiveX DLLs and ActiveX EXEs are almost same in the ways they are built and used. In either case, you build one or more classes that applications can use to do something.
4. One of the main differences between ActiveX EXE and an ActiveX DLL's is that the code is executed within the main program's address space for ActiveX DLL. This is because the code lies inside the program's address space, calling methods and execution of code is very fast.

Differences

An ActiveX Exe provides the reusability of code, by accessing it from different clients.

An ActiveX Exe is a component that can be called by another application by providing a reference to the component. But a Standard Exe application cannot be called in this way.

An ActiveX EXE's code is run in a separate process. When the main program calls an ActiveX EXE's method, the application passes required parameters into the ActiveX EXE's and calls the method. The ActiveX EXE, upon execution may return the results to the main program. This is slower than running an

ActiveX DLL's method inside the main program's address space.

Accenture Dotnet Interview Questions

Accenture 2+ dot net interview questions,Bangalore

- 1.Tell about your Current project? How the security is implemented , which architecture does you used ?
2. What are the various technologies you used in current and in previous projects

I said: VS2005,VS2008, Sql server 2000,2005,java script ,Ajax, j queries, WCF.

3. What is the difference between abstract class and interface? Where we use abstract class and interface?

4. I want a method which it should return a string variable, Boolean variable and integer variables, how do you implement that method?

Eg: I'm passing date time to method that method should return date , hrs,minutes and it should check date should not less than today's date and return as boolean.

I said yes we can implement such a methods, by using key word "out ".

```
public string getdatetime(string frmDatetime, string out date,int out hrs,int out mints,Boolean IsValid)
```

5. Can we use "out" for the methods of type void? Does it give any compilation or run time error?

I said: yes we can use for methods of type void also. I does not give any type of errors.

6. What are sealed classes and static classes?

7. What is boxing and unboxing?

8. Why do I'm get an error while try to declare the method?

```
public static staticMethod (mainStatic obj)
```

I said: yes it will give compilation error without specifying return type.

```
public static void staticMethod (mainStatic obj)
```

9. Let's consider a scenario, I have a Text box when user enters a number in text box, I need to display the employee's details based on empid; if user enters a string value I need to display based on emp name.

10. Does C# support the properties for array types?

I said : yes ,it supports

for eg:

```
class Class1
{
    private string[] MyAssesrts;

    public string[] SubhashProperties
    {
        get { return MyAssesrts; }
        set { MyAssesrts = value; }
    }
}

class MainClass
{
    public static int Main(string[] args)
    {
        Class1 c = new Class1();

        string[] arr = new string[] { "car", "villa", "land" };
        c.SubhashProperties = arr;
        Console.WriteLine(c.SubhashProperties [0]);

        return 0;
    }
}
```

}

12. You worked on jquries right? What are the various features it overcomes from JavaScript and Ajax?

13. How to find the text box of id txtname in jquery?

14. What is SOA? Difference between web services and WCF?

15. How do you deploy the web services and WCF in production server?

16. What are the page life cycle events?

17. In Page load () Does it possible to identify , by which control or event causes post back

I said: up to my knowledge No, we cannot identify, in page load all the controls and events will be loaded.

I'm not sure whether it is a right answer or not?

17. What are http handlers? Where we use?

18. I need to insert the data of uploaded excel file to sqlserver, In how many ways we insert?

I said:

First we need to open the oledb connection, query the excel sheet and get excel data to data table or dataset.

A. we can loop each row form a insert query a string and Executenonquery ().

B.loop each row collect the data in array lists after looping the all records we can pass the array values to stored procedure.

C. We can use sql bulk upload utility class, where we insert all the data at a time from data table to backend DB.

19. How to find the text box of id txtname in jquery?

19. So, among these which one is the best you feel?

I Said: obviously, third one gives the better performance.

20. How do you validate the data before inserting the data through sql bulk upload?

21. I'm uploading a large amount of data, my excel sheet contains @ 60000 to one lakh records,

22. What happens if I got any connection time out error or some other error occurs, how do you handles this error.

I said: I faced this situation in my project, first of all we should not allow to the uploading large amount of data we should consider the file size before user uploading, better to allow uploading the small chunks of data , we should also consider production server configuration,

Sqlserver:

21. How do you handle errors in stored procedures?

I Said: In sql server 2005 and 2008 have a better error handling capable when compare to sqlserver2000, we can use try catch blocks in stored procedures.

And also we can use @@Error which is a global variable;

I explained about error_message (), error_seveority, error_description ().error_id()

22. Why we need to specify NoLock? Do we use Nolock while performing the DML operations, what happened if use?

I said: Nolock should specify after the table name while performing the select statement, by default while executing the select statement sqlserver lock the table, for eg my query takes 6 sec to execute these 6 sec sq server will not allow to perform the any other DML Operations on that table