Note: Please no not delete any question either its repeat on different interviews.

Questions	Answers

SHOAIB RAFAQAT (E-TECHSOLE)

Difference between string and string builder?

What is exception? How we handle exceptions? How we hadle if exception occuer in catch block? How we handle if execption occure in finnaly block ?

Why we use the key word using{ } on the block of code ?

https://www.codeproject.com/Articles/1095402/Garbage-Collection-and-Csharp

What is Data Annotation?

ON Login time we want to edit the password (in login method)?

What is the benifit of @model HTS_HIS.Models.ElementConfigurationViewModel in razor? Other thab binding with single or multiple models?

If form has 200 fields and i want to submit with ajax tell me one line code of jquery?

Difference Between .remove() and .empty in jquery?

What is polymorphism? What effec if we write Virtual key word with method in base class?

```
public class baseClass{ public function cal(){} }
public class driveClass : baseClass{Public finction cal()}

main(){
baseClass B = new driveClass();
B.cal();

//Which cal function is called.
//Now we write Virtual key word with cal function in base class and
baseClass B = new baseClass();
B.cal();
//Now whic cal function is called;
}
```

What is difference between tosting() vs convert.tostring?

https://stackoverflow.com/questions/2828154/difference-between-convert-tostring-and-tostring

What is release resources?

Why we use razor?

Static class ?

https://docs.microsoft.com/en-us/dotnet/csharp/programming-guide/classes-and-structs/static-classes-and-static-class-members

Why we use the static class code example?

https://docs.microsoft.com/en-us/dotnet/csharp/programming-guide/classes-and-structs/static-classes-and-static-class-members

when static constructor call?

https://docs.microsoft.com/en-us/dotnet/csharp/programming-guide/classes-and-structs/static-classes-and-static-class-members

If static class have static member than how we call static member?

https://docs.microsoft.com/en-us/dotnet/csharp/programming-guide/classes-and-structs/static-classes-and-static-class-members

View Vs Temp Table?

A view must replicate the processing of your "long query" each time it is run, while a temp table stores the results.
AND
The main difference between temporary tables and views is that temporary tables are just the tables in tempdb, but views are just stored queries for existing data in existing tables.
So, there is no need to populate the view, because the data is already here. But temporary table needs to be populated first, and population is the main preformance-concerned issue.

Interfaces Vs Abstruct class?

https://www.codeproject.com/Articles/11155/Abstract-Class-versus-Interface

FAHAD KHAN

*****************interview #1*****************

What is ploymorphism,Explain the Types

Implementation of Dynamic Polymorphism.

what is Interface??

why Multiple interhitance is not allwoed in c#

How can we overcome this problem

what is class and object.

Ask All Joins of sql

what are types of sql functions

Difference between procedure and Function

https://stackoverflow.com/questions/1179758/function-vs-stored-procedure-in-sql-server

what is session,and types

https://msdn.microsoft.com/en-us/library/ms178586.aspx

how can we maintain session through outproc??

why we always set aysnc false in ajax??

what is strickly binding?

what are Cursors??

where the clustor index stored in db??

**********************interview #2**************

what is MVc

what is ViewBag and view Data

Filters in MVC

What is the Entry Point in MVC

MVC Lify Cycle

what session,and types

when Finally is used??

what is Difference between convert.tostring() and .tostring()??

how many types of engine MVC support??

how can we find nth salary of any Employee

Composition and Aggregation

how can we get 3 td of table

Javascript is loosly type ??

what is GAC??

Let's break it down:

global - applies to the entire machine
assembly - what .NET calls its code-libraries (DLLs)
cache - a place to store things for faster/common access
So the GAC must be a place to store code libraries so they're accessible to all applications running on the machine.

what is CTE??

Difference between CTE and SubQuery??

The main advantage of the Common Table Expression (when not using it for recursive queries) is encapsulation, instead of having to declare the sub-query in every place you wish to use it, you are able to define it once, but have multiple references to it.

However, this does not mean that it is executed only once (as per previous iterations of this answer, thank you to all those that have commented). The query definitely has the potential to be executed multiple times if referenced multiple times; the query optimizer ultimately makes the decision as to how the CTE should be interpreted.

**************************interview #3******************

what are Design Pattrens

what is singleton design pattren?

which one you are using in your company?

what are the types of session??

how an ecommerce website store the session??

what is antiforgry token()?

what is partial page??

what is bundling and minifcation?

what is difference between ajax begin and html begin form?

what are the return types of action Method??

what is composition and aggregation??

what are the types of joins??

what are the the types of index in sql??

can we make string type primary key?

what are value type and reference types?

what is Boxing and UnBoxing??

what is Difference between unoin and union all??

what is difference between Rank() and Dense Rank()??

Mozam Ali

Database

1- What is SQL Agent?

https://docs.microsoft.com/en-us/sql/ssms/agent/sql-server-agent

2- Get the employee data whose get the salary of 9 month?

3- Difference between rownumber, rank and denserank ?

https://www.codeproject.com/Tips/823497/What-is-the-Difference-between-ROW-NUMBER-RANK-and

4- We can call function from SP but we can't call SP from function why?

User defined functions aren't allowed to execute any DML statements except SELECT; whereas stored procedures do have the ability to execute DML statements.
If a function could call a stored proc, it'd indirectly get the ability to modify data, which isn't allowed.
Why isn't it allowed? Because then it'd be the same as stored procedure!

5- What is global Temp table can we use it in other SP?

6- What is Profiler in DB?

7- What is indexing in DB?

https://docs.microsoft.com/en-us/sql/relational-databases/indexes/clustered-and-nonclustered-indexes-described

http://www.programmerinterview.com/index.php/database-sql/clustered-vs-non-clustered-index/

8- How can we restrict at time one user hit the SP at one time?

https://www.mssqltips.com/sqlservertip/3202/prevent-multiple-users-from-running-the-same-sql-server-stored-procedure-at-the-same-time/

9- How we can alter PK using script?

Yes. The only way would be to drop the constraint with an Alter table then recreate it.
ALTER TABLE <Table_Name> DROP CONSTRAINT <constraint_name>
ADD CONSTRAINT <constraint_name> PRIMARY KEY (<Column1>,<Column2>) PRIMARY KEY CONSTRAINT cannot be altered, you may only drop it and create again. For big datasets it can cause a long run time and thus - table inavailability.

10- Write a dynamic query which provide the category and sub category dynamically?

OOP

1- What is private class how we can access it?

2- What is virtual class how we can use it?

3- Difference between Struct and Class? Where we use struck and where we use class?

4- Write a function which can return int and null?

5- Resolve the diamond problem using interface full code?

6- What is value type and reference type?

7- String is value type or reference type?

8- Real time example of composition with code?

9- What is Polymorphism and Interface?

AJAX

1- Difference between GET and POST?

2- When we use GET and when we used post provide reason?

3- Difference between DataType and Type?

4- We want to get only JSON on success how we can do it?

ENTITY FRAMEWORK

1- What is garbage collector? Who it free the memory of object? How can we use it manually in code?

2- How entity framework works?

3- Save the list in DB without using loop? _db.companies.AddRange(newCompanies);

4- Types of loading (Early loading and Eager Loading)? How its work?

5- How session works? If user A, B, C and D how session identity the user? How session store in cookies? How its work?

6- Types of session & explain each type? Why we use out-porc?

7- If user use website how website identity the choice of user?

8- How we can create connection of multiple Data Bases? What code we write in DB context and web.confg?

9- What is antiforgery token?

10- How filters work? How we can write our own filters?

11- Type of action filter?

12- What is MVC life cycle?

13- When we click www.google.com how its work?

MVC

1- ViewBag, ViewData and TempDate?

2- Difference between Keep and Peek?

Keep (First Read): First read the data and persist it for next request in all the cases.

Peek (Last Read): First apply condition if condition is true then read the data and persist it for next request.

3- How we can do multi-threading?

4- How add methods in HTMLHelper provide example?

5- What is bundling and minification?

Minification: use to improve request load time. It remove the spaces, commented code, commas or etc.

The Minification is a technique for removing unnecessary characters (white space, newline, tab), comments.

6- RenderPartial VS RenderAction?

https://stackoverflow.com/questions/719027/renderaction-renderpartial

7- ienumerable vs iqueryable?

Ienumerable is in memory collection. It filter all the data on client side(not client side, on application server).

Iqueryable filter data in DB using link to sql.

JQuery

1- Document.Ready vs Onload?

2- 1+2+"3" Provide result?

3- What is callback functions?

https://stackoverflow.com/questions/824234/what-is-a-callback-function

A callback function is executed after the current effect is 100% finished.

Fahad Khan interview #4

What is MVC Lifecycle?

what is viewBag and View State?

what are Extension Methods?

what is differance between Wrapper class and helper class?

i Have one dll,that is build in the prevoius version ,and anthor dll which is build in the last version,when i merge the code of theses two,i got error,how to overcome this?

what is CLR??

what is GAC??

what is CRM??

which ORM you are using??

which javascript version you are using??

what is indexes in sql?

Types of Indexes??

What is the third type of indexes??

Is it necessary to set only int as primary key??

what is differnce between function and procedure??

what is execution plan?? and what is tell us??

what is differance between class and interface??

what is overloading and overriding??

what is operator overloading??

Shoaib Rafaqat (Interview # 2)

1) if parent table has multiple childs in database using RDBMS than, when i create object of parent class all childs were automatic loaded.

2) Eagar load vs Lazy load.

3) abstract class ? object of abstract class? abstract class constructor? why abstract class cant intiate.

4) ploymorphism? types? Dynamic polymorphism second name?

5) interface? why interface required? interface vs abstract class?

6) TempData, ViewBag, ViewData?

7)Is tempData maintain state on next request ? peek vs keep?

8)ViewBag vs ViewData? why ViewBag not required type casting? which tecneique is it use ?

9) can we send multiple views from one method?

10) can we send multiple partialViews from ome model? what is partialView?

11) can we bind multiple models with one view ? its not about view model because viewmodel itself is a 1 model.

12) which type of data structure/ artitechector you are using in you company? Three layered?

13) difference between sp and function?

14) how many forigen key allow in on table?

15) unique key vs primary key?

16) unique key vs forigen key?

17) temp table? types ? if i am create global temp table on server that i want to access temptanle from my system is it possible?

18) views ? views vs temp table?

19) left join vs inner join?

20) wtat types of data we can send from ajax?

21) ajax is syncronus or asyncronus call? how we identify it is sync or a sync ? what is by default?

22) what is basic selectors of jquery?

23) javascript is losely type of strongly type? Is javascript object oriented? why losely?

24) java script is functional type or object type?

Shoaib Rafaqat (Interview # 3)

1) what is Eager and Lazy loading?

2) How you maintain security in your application?

3) How you maintain seacurity during login time?

4) Antiforgery token ? How its work ? How it save token on server?

5) Function vs Store Procedure?

6) Type of function ? What are user type functions? What are return type?

7) What is Trigger? Types of Trigger?

8) INNER Join vs subquery? what is difference between inner join and subquery?

9) Store procedure use with Entity Framework? How Entity call store procedure?

10)What if we change the names of column in store procedure from database? Is it auto change in Entity?

11)What is Action Method? What are the type Ation Methods return?

12)What are partial View?

13)What if we want return only json type in ajax request?

14)What if i send ajax request to method and this method return RedirectToAction, redirect to another action? What happen?

15)Ajax is sync OR Async ? What is by default behaviour of Ajax sync Or Async?

16)What i can do if i'm using two Ajax call and i want first i recieve result from first ajax call when i recieve result than second ajax call send request?

17)Action Filter? Why we use Action Filters? What is the purpose of using Action Filter? In Old MVC Version we were not use Action Filter than why we use Action Filters in New Version? Why it is needed?

18)What are HTTP Methods?

19)Bundling and Minification?

20)If i want when i create bundle auto minification happen what i will do?

21)Bootstrap?If i have grid and i want start from after first three column? what is OFFSETS in Bootstrap?
22)Find() in jquery?
23)We have div and with in five divs i have <b> tag i want to access this <b> tag in jquery?
24)Parent() Vs Parents() in jquery?
25)Attr vs prop in jquery? What is difference?
26)We use == for comparison and Equal is also use for comaprison? What is difference between == and Equal in C#?
27)Difference between == and === in jquery?
28)HTML5? Highlighting fetures of HTML5?
29)If we want to animate some label how many ways to animate? CSS?
30)If we create a table and what are the method you use for crud opperation? Suppose we have 300 tables we write seprates crud methods or write some genaric method?
31)Get vs POST vs PUT?
32)IIS Server VS FTP Servers?
33)What are the disadvantages of using Store Procedure?
34)What is logging? How you use logging? File Logging vs Database logging?
35) ArrayList vs List<T> ?
https://stackoverflow.com/questions/2309694/arraylist-vs-list-in-c-sharp

Difference between static class and singleton pattern?

Singleton objects are stored in Heap, but static objects are stored in stack.
We can clone (if the designer did not disallow it) the singleton object, but we can not clone the static class object .
Singleton classes follow the OOP (object oriented principles), static classes do not.
We can implement an interface with a Singleton class, but a class's static methods (or e.g. a C# static class) cannot.

When to use static vs instantiated classes?

The simplest way to consider things might be :
use an instanciated class where each object has data on its own (like a user has a name)
use a static class when it's just a tool that works on other stuff (like, for instance, a syntax converter for BB code to HTML ; it doesn't have a life on its own)

string builder vs string

The main difference is that a StringBuilder is mutable (meaning that it can be modified), whereas a string is immutable (meaning that once it is constructed it cannot be modified).

This difference is important for example if you are trying to create a large string from lots of smaller strings. If you use a StringBuilder you append the strings without creating a new object, giving O(n) performance. If you use strings you create lots of intermediate strings which are immediately discarded, but all the extra copying means that it becomes an O(n2) operation.

Example code showing the usage of each for contructing a large string from many smaller strings:

String

```
string s = "";
for (int i = 0; i < 10000; ++i)
{
    s += "foo";
}
```

StringBuilder

```
StringBuilder sb = new StringBuilder();
for (int i = 0; i < 10000; ++i)
{
    sb.Append("foo");
}
string s = sb.ToString();
```

http://a4academics.com/interview-questions/52-dot-net-interview-questions/417-c-oops-interview-questions-and-answers