**SSE INTERVIEW QUESTION**

CV projects and tech stack related questions. E.g. if you mentioned wcf or azure then they will ask few questions on that.

1. Project features and architecture explanation.
2. Agile or non-agile methodology followed for project.
3. Diff between Agile and Non-Agile methodology.
4. Steps need to perform for performance improvement.
5. What is Bundling and minification.
6. Use of Caching and types of caching.
7. What is loyalty module in SQL?
8. Diff between value type and reference type.
9. What is Garbage Collector?
10. What is Sealed class?
11. What is Generics and use of it?
12. Array Vs. ArrayList
13. How to make thread-safe method?
14. What is design pattern and types of it?
15. Explain test framework used into project.
16. What is dependency Injection?
17. Types of WCF components?
18. Web Service Vs WebAPI. Which one is better to use?
19. How can we avoid to someone place my site into iframe?
20. How's request get processed into MVC application?
21. What is CLR and IL? How it’s work?
22. Exception handling.
23. Trigger vs store procedure
24. Singleton pattern need to create 5 object.

Interview questions

.**NET fundamentals**

1. Value type vs ref type

What types need to be garbage collected?

How to Cleanup file system resources?

<https://blogs.msdn.microsoft.com/ericlippert/2010/09/30/the-truth-about-value-types/>

1. What are the different generations?
2. Purpose of dictionary?
3. Are .NET collections thread safe? How to access it in thread safe manner? Names of thread safe collections?
4. How to get common items from two lists using Linq to objects?
5. When framework instantiates Static class?
6. Dependency injection used, what is lifetime?
7. [Garbage collector example, how it works](http://www.levibotelho.com/development/how-does-the-garbage-collector-work/);
8. Abstract class vs interface; what scenarios you use one over other
9. [Prevent class from being  inherited](http://www.careerride.com/Csharp-how-to-prevent-class-from-being-inherited.aspx)
10. Inherit constructor of base class in derived class, possible?
11. [Generics – explanation; arraylist vs generics, benefit of generics](https://www.codeproject.com/Tips/855546/What-is-the-Difference-between-ArrayList-and-List)
12. [Steps to setup forms authentication in web app](https://www.codeproject.com/Articles/578374/AplusBeginner-splusTutorialplusonplusCustomplusF)
13. Boxing vs unboxing
14. Multiple vs multilevel inheritance
15. Design patterns – singleton, abstract factory, repository, unit of work
16. overloading vs overriding, can I define static method as overridden?
17. Const vs readonly vs static
18. Authentication mechanisms used?

**Webservices**

1. Difference between SOAP vs REST

**ASP.NET Webforms**

1. How to troubleshoot slow loading asp.net page?
2. Website is loading slow in pick hours?
3. How to minimise database workload – repetitive queries?
4. What are the caching strategies?

**Database**

1. Aware of function, stored procedure etc…?

**HTML**

1. Bootstrap use?

**Javascript**

1. Jquery selectors examples
2. [Javascript -> Preventdefault](https://www.w3schools.com/jsref/event_preventdefault.asp)
3. Identify browser using javascript
4. Jquery vs javascript

**CSS**

1. Css selectors case sensitive?
2. Media queries
3. Application cache/Session cache
4. Display:none, visibility:hidden

**Umbraco**

1. What is document type inheritance?
2. How to create Gender control (Male and female image)?
3. Umbraco – recursive access property from level above(document type inheritance)

Ans: @Umbraco.Field(Alias in double quote, recursive: true)

1. MacroPartial vs Partialview

Ans:

-MacroPartial is used as a Macro in Umbraco backoffice where Partial View is used to render page directly.

-If we change something in partial View then we will need to deploy code where we can change macro partial from backoffice directly.

-We can provide macropartial to Umbraco editor inside Grid so the can chose the render place where we cant provide same facility using Partial View.

- We can provide dynamic selection using MacroPartial to content editor before putting inside the content (Using Parameter tab). This cant be achieed using Partial View.

1. Basic elements of umbraco – explain what you work day to day

Ans: Document Type, Data Type, Macros, Templates, Contents, Media, Stylesheets, scripts, Uesr, Dictionary,Packages etc.

1. Custom data type – show contents of given child node

Ans: Default ContentNodePicker. Also there is a package NuPicker which is also used to list down all the content or selected document type wise contents.

1. Umbraco packages-how to create

Ans: Create all the elements which you want to get packaged. Like document type, partial view etc.

Go to Developer -> Packages -> Create Package. Here you can set basic information in “Package Properties” tab. Select all the existing document types, data types, templates etc. From “Package contents” tab. Select created partial view from “Package File” tab. Then create package. So it will create a Zip file. You can install the same file in another Umbraco.

1. Let say large image is uploaded into media, have to display thumbnail on listing page, [Image thumbnail](https://stackoverflow.com/questions/16203998/how-to-create-thumbnail-in-umbraco-using-webimage-with-razor)

Ans: This is default behavior in Umbraco so it creates 2 image files inside media folder one is original and another is thumbnail. The naming conversion of both the files is similar. Just need to add \_thum to get thumbnail image.

1. Umbraco – querying page property from another page

Ans: Using ContentService class Like GetById,GetbyLevel,GetByVersion,GetParent,GetChildern etc.

1. Post html form to umbraco, send notification email?

Ans: Using Surface Controller. To validate we can use this syntax

if (ModelState.IsValid){ }

1. Multilingual website-EN-US vs IN-HI

Ans: Few packages like “Vorto” are available to achieve Multilingual website.

1. Hosting domain setting in umbraco

Ans: No direct answer has found. But we can setup hosting domain specific configuration in web.confige file and using Config Tree package Umbraco editor will be able to change the hosting information

1. How to provide full text search in Umbraco, Examine-search how to configure?

Ans: First need to set IndexSet, IncludeNodeTypes and IndexUserFields in ExamineIndex.config file.

Then need to set provider in ExamineSettings.config file. Then we can get the object using SearchProviderCollection method of Examine.ExamineManager.

On this object we can fire lucene query to get search result.

1. What are the third party plugins of Umbraco used?
2. Have you worked with grid data type? What is the use case?
3. Have you worked with Umbraco XSLT?
4. Deployment – how to move document type changes from Staging to Live environment?

Potential questions identified

1. [Implicit casting vs explicit casting](http://freefeast.info/tutorials-for-beginners/dotnet-tutorials/difference-between-implicit-conversion-and-explicit-conversion-implicit-conversion-vs-explicit-conversion/)
2. try, catch, throw, finally
3. Delegates vs Events
4. Partial classes
5. IComparable, IEquatable interfaces

<https://msdn.microsoft.com/en-us/library/system.icomparable(v=vs.110).aspx>, <https://msdn.microsoft.com/en-us/library/ms131190(v=vs.110).aspx>

<http://www.aaronstannard.com/overriding-equality-in-dotnet/>

1. NET Framework components
2. [IEnumerable vs IQuerable](https://www.codeproject.com/Articles/732425/IEnumerable-Vs-IQueryable)

<http://haroldrv.com/2015/02/what-is-the-difference-between-ienumerable-and-iqueryable/>

1. Encapsulation, Abstraction and inheritance

<https://www.youtube.com/watch?v=1Q4I63-hKcY>

<https://www.codeproject.com/Articles/1069111/Csharp-Lectures-Lecture-OOP-basics-Abstraction>

<http://pankajtiwarii.blogspot.in/p/oops-abstraction-encapsulation.html>

<http://www.completecsharptutorial.com/basic/understanding-concepts/>

Umbraco specific

* + - 1. Debugging umbraco

<https://our.umbraco.org/forum/umbraco-7/using-umbraco-7/49459-umbdebug-version-7>