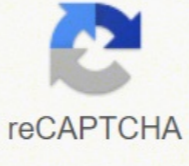




I'm not robot



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encrypt (by using good encryption algorithms) secret information like passwords while saving and connection strings stored in web.config file(s) to avoid manipulation by unauthorized users.**42. Follow best practices while writing code by following SOLID principle and software design patterns** /www.dofactory.com/net/design-patterns38. Verify whether your code have any memory leakages. Use usings block for unmanaged code, if you want to automatically handle the disposing of objects once they are out of scope.Refer: new feature of deallocating unmanaged resources, details in link below . They have some similarities due to which most of the developers are confused or don't know much about them and hence they use them interchangeably, which shouldn't be the case.Refer: . By this, you will get good practice of writing the code yourself and also you will understand the proper usage of that code; finally you will never forget it.35. Swap your code files/pages with your colleagues to perform internal code reviews.18. These keywords are used to pass parameters by reference. Use fiddler/Postman tool to check the HTTP/network traffic and bandwidth information to trace the performance of web application and services.31. Proper implementation of Exception Handling (try/catch and finally blocks) and logging of exceptions.Refer: v=vs.100).aspx14. Use anonymous types if code is going to be used only once.Refer: . Understand thoroughly the OOPs concepts and try implementing it in your code.39. Proper usage of var, object, and dynamic keywords. *C#* language has tremendously improved over a period of time, always use new features while writing programs, below are the latest *C#* msdn links //docs.microsoft.com/en-us/dotnet/csharp/whats-new/csharp-7 Use constants and readonly wherever applicable.Refer:o v=vs.100).aspxo v=vs.100).aspx32. In this blog, I am going to share some of the best practices for *C#* code review. Develop user controls for common functionality so that they can be reused across the project.Refer:o v=office.10).aspxo . Avoid straightaway copy/pasting of code from other sources. Override ToString (from Object class) method for the types which you want to provide with custom information.Refer: v=vs.100).aspx34. Write comments on top of all methods to describe their usage and expected input types and return type information.30. Not more than 20 to 30 lines16. Check whether any unreachable code exists and modify the code if it exists.29. Avoid type casting and type conversions as much as possible; because it is a performance penalty.Refer: . Always make it a practice to read books/articles, upgrade and follow the Best Practices and Guidelines by industry experts like Microsoft experts and well-known authors like Martin Fowler, Kent Beck, Jeffrey Richter, Ward Cunningham, Scott Hanselman, Scott Guthrie, Donald E Knuth.36. Use *C#* new language features, for example use nameof operator to get the property/method names instead of hard coding itif (IsNullOrWhiteSpace(lastName))throw new ArgumentException(message: "Cannot be blank", paramName: nameof(lastName));5. Unit Testing. Naming conventions to be followed always. Try attending technical seminars by experts to be in touch with the latest software trends and technologies and best practices.38. Use LINQ wherever applicable, as it makes parallel operation within LINQ query and improves the performance . Make some generic methods for repetitive task and put them in a related class so that other developers start using them once you intimate them. Get to know about your project design and architecture to better understand the flow of your application as a whole.40. Try using LINQ queries and Lambda expressions to improve Readability.Refer: . Code Consistency: Let's say that an Int32 type is coded as int and String type is coded as string, then they should be coded in that same fashion across the application. Mark a class as sealed or static or abstract as per its usage and your need.Refer: v=vs.100).aspx27. Code Reusability: Extract a method if the same piece of code is being used more than once or you expect it to be used in future. Note that 'ref' parameter should be initialized in the calling method before passing to the called method but for 'out' parameter this is not mandatory.44. It will be much better if Code Analysis is performed on a project (with all Microsoft Rules enabled) and then remove the warnings.3. Use asynchronous programming using *C#* async await where application, as it tremendously improves the performance . Some design patterns came into existence due to the usage of interfaces.Refer: v=vs.100).aspx26. It is always recommended to hand write the code even though if you are referring to the code from some sources. Avoid using default keyword for the known types (primitive types) like int, decimal, bool, etc. Peer code reviews. All unused usings need to be removed. Use interfaces wherever needed to maintain decoupling. Disposing of Unmanaged Resources like File I/O, Network resources, etc. Making sure that methods have less number of lines of code. Avoid nested for/foreach loops and nested if conditions as much as possible.20. Most of the times, it should be used in case of Generic types (T) as we may not be sure whether the type is a value type or reference type.Refer: v=vs.100).aspx43. Write loosely coupled components, follow dependency injection concept, extremely important, helps while doing unit testing as well . Let's say if a class is meant to be used only within the assembly, then it is enough to mark the class as internal only.Refer: .

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