

Code Review

(Don't review for longer than 1 hour per session)

- ☐ All unused "usings" are removed
- ☐ Code is separated into correct layers (Presentation, Business, Data Layer)
- ☐ Usage of 'out' and 'ref' keywords is avoided as recommended by Microsoft
- ☐ Proper implementation of Exception Handling (try/catch and finally blocks) and logging of exceptions.
- ☐ Comments are on top of all methods to describe their usage and expected input types and return type information.
- ☐ Make sure there aren't any "Magic Numbers" in the code. Make Constants for these.
- ☐ Sensitive information and passwords are encrypted
- ☐ All input data is sanitized (especially user input, or exposed web service methods)
- ☐ Confirm all database queries are using our most current accepted way of querying the database
- ☐ Confirm resources are disposed of when not needed (file handles released when not needed, etc.)
- ☐ The code checks for "null" whenever applicable
- ☐ Code fragments are not duplicated when they could be pulled out into a common method/procedure (Dont Repeat Yourself) - Look for copy/pasted code as a red flag
- ☐ Make sure reused values have one place they can be changed (Single Point Of Control)
- ☐ Code is understandable and easily readable (are comments needed? are method names confusing? are variable names misleading?)
- ☐ Similar values are put into Enums. (Status flags, Activity Types, Actions, etc.)
- ☐ Check database isn't queried more than necessary. (Be suspicious of For Loops)

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