Code Review Nov. 8th. 2017 Wed

Reading 1 (Mit) Summary:

Code Review: Code Review is careful, systematic study of source code by people who are not the original author of the code. It's analogous to proofreading a term paper.

Two purposes: Improving the code Improving the programmer

Style Standards

self-consistent, but there are some rules that are quite sensible:

don't repeat yourself: duplicated code is a nik to safety. It you have identical or very similar code in two places, then the fundamental nisk is that there's a bug in both copies. and some maintainer fixes the bug in one place but not the other.

comments where needed: 10 specification, which appears above a method or above a class and documents the behavior of the method or class.

- 10 specify the provenance or source of a piece of cule that was cupied or adapted from elewhere.
- @ comment the obscure code code should reveal its bugs as early as fail fast. ypussible.

declare the number as a constant with avoid magne number: a good, explanatory name (e.g. FEBRUARY) one purpose for each variable Dynn will confuse your reader of a variable that weel to mean one thing suddenly starts meaning something different a few lines down

1 method parameters should generally be left un modified. (for java) use good names: in plothon, classes - CAPITALIZED variables _ lowercose, words_ are_ separated_b Use whitespure to help the reader: use 4 spaces, not tab don't use global variables: Aglobal variable is: -a variable, a name whose meaning can be changed - that is global. accessible and changeable from anywhere in the program. methods should returns results, not print them: in general, only the highestlevel parts of a pragram should interact with the human wer or the console. 3 key properties of good suftware: 1. Safe from bugs 2. Easy to understand 3. Ready for change

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| - | Reading 2 (Evoke Technologies) Summary: | |
| - | 1. Code formatting | |
| -0 | | |
| -0 | a) Vse alignments (left margin), proper white space b) Proper naming conventions | |
| | c) Code should fit in the standard 14 inch Taptop screen | |
| | of) Remove the commented code I can be obtained from Source Cov | 1200 |
| | if required) | 12/0], |
| | 2. Architecture | |
| 5 | | |
| 5 | a) The code should follow the defined architecture | |
| | 17. Separation of Concerns followed | |
| | -Split into multiple layers and tierc as per requirements | |
| | - Split into respective files (HTML, Javasempt and CSS) | |
| | 27. Code is sync with existing code patterns/technologies | |
| K O | 37. Vice appropriate design partern | |
| | 3. Cooling best practices | |
| | | |
| 5 | 1. No hard coding cembed an input or configuration data directly | |
| | into the source code) | |
| | 2. Group similar values under an enumeration (enum) | |
| | 3. Comments, why you are doing, mention pending tasks | |
| | 4. Avoid multiple if/else blucks 5. Use framework features | |
| | 5. Use Framework Jeatures | |
| | 4. Non Functional requirements | |
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| 5 | a) Maintainability | |
| - | 1. Readability | |
| | 2. Testability | |
| | 3. Debuggability | |
| - | 4. Configurability | |
| | b) Remability | |
| | 1. DRY (Do not Repeat Yourself) principle | |
| | 2. Consider reusable services, functions and components | |
| | 3 Consider generic functions and classes | |
| | | |

c) Reliability: Exception handling and cleanup (dispuse) resources. d) Extensibility e) Security f) Performance 1. Use a data type that best suits 2. Luzy louding, asynchronous and parallel processing 3. Couching and session/application dates 9) Scalability h) Vsability 5. Object-Oriented Analysis and Design (OOAD) Principles
1. Single Responsibility Principle (SRS) 2. Open Clused Principle 3. Liskov substitutability principle 4. Inverface segregation 5. Dependency Injection