

Identifier Name Quality, Class Cohesion

Q1. The researcher will provide you a set of code files extracted from several OSS projects. Please review them for,

1. the identifier name quality and identify the identifier names that are of low quality.
2. class cohesion and identify the attributes and methods that do not seem to belong to the class they are currently in.

Javadoc-Grammar Typo

Q2. Now we are going to look into the **grammatical** and **typographical errors** in Javadocs. The researcher will provide you a set of code files extracted from several OSS projects. Please review them for grammatical and typographical errors.

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Experiment Description

. Thank you for taking part in this research. Finally, we would like you to fill out this short demographics questionnaire which can help us to study the effect that the level of programming expertise has on the code review outcomes.

Programming expertise

Q0. Please enter your participant number below:

Q1. What is your current profession?

Q2. How will you rate your **programming expertise** according to the definitions given below?

☐ I have no programming knowledge or experience.

☐ Novice:

- I have little or no experience
- I want unambiguous rules to accomplish my tasks
- I am able to handle small, isolated tasks

☐ Advanced Beginner:

- I have gained some experience
- I can work more independently than a novice
- I know general principles in a limited context, but do not have a holistic understanding

☐ Competent:

- I have a holistic understanding of the problem domain
- I base my work on deliberate planning and extensive past experience
- I can apply general maxims (e.g. design patterns) easily to specific contexts

☐ **Proficient:**

- I have a vast amount of experience that I can intuitively apply to new contexts
- I can easily differentiate between irrelevant and important details
- I constantly reflect on what I have done and revise my own approach to perform better in the future

☐ **Expert:**

- I am a major source of knowledge and information for others
- I primarily work from my intuition

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