

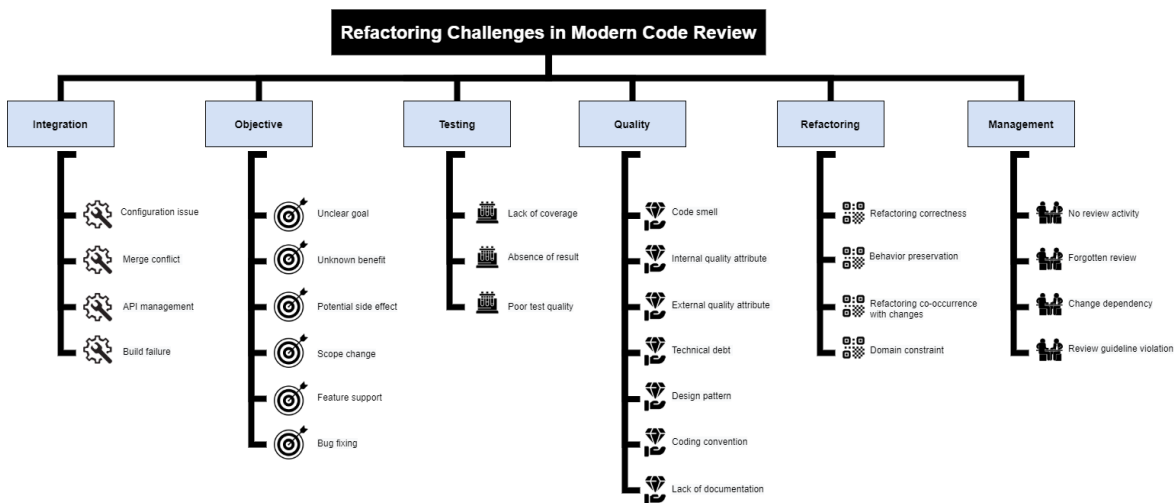
Survey on Software Refactoring

Understanding the practice of refactoring code review is of paramount importance to the research community and industry. Although Modern Code Review (MCR) is widely adopted in open-source and industrial projects, the relationship between code review and refactoring practice remains largely unexplored. In our study, we investigate the challenges faced by developers when reviewing refactorings. Our results reveal that reviewing refactoring changes take longer to be completed compared to non-refactoring changes, and developers rely on a set of criteria to develop a decision about accepting or rejecting a submitted refactoring change, which makes this process to be challenging. The below taxonomy encapsulates these challenges.

We would appreciate your feedback via this 5-minute survey, since it can help us refine our hypotheses and develop better refactoring practices in modern code review for developers.

By considering the taxonomy given below, please answer the following questions:

Refactoring challenges in modern code review



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1. Do you believe that the taxonomy corresponds to the challenges faced by developers when reviewing refactoring?

Mark only one oval.

Yes

No

2. How often do you encounter these challenges in your company as an author or reviewer?

Mark only one oval.

1 2 3 4 5

Never Always

3. When considering its future implications, how important do you think these challenges are?

Mark only one oval.

1 2 3 4 5

Not important Highly important

4. Are there any actions taken to prevent these challenges in your company?

Mark only one oval.

Yes

No

I don't know

5. If yes, can you please mention these actions?

6. Do you have any recommendation in refining the above taxonomy?

Mark only one oval.

Yes

No

7. If yes, can you briefly mention these recommendations?

8. Are there any other challenges that you have faced during reviewing refactoring changes? if yes, can you briefly describe them?

9. How many years do you have in software industry?

10. How many years have you worked on refactoring?

11. How many years of code review experience do you have?

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