

Quiz on Teaching Code Smells Refactoring

This questionnaire aims to evaluate the teaching of code smells refactoring practices and measurement of quality attributes in the Software Quality discipline.

The data will be used confidentially and for academic and scientific purposes only.

Any questions, contact Prof. Carla Moreira < carlailane@ufc.br >.

You may withdraw from the survey at any time. By clicking on the "Next" option with the "Yes" option selected, you confirm that you understand the terms presented.

*Obrigatório

1. Do you agree with the terms? *

Marcar apenas uma oval.

☐ Yes

Participant Profile

2. Name: *

3. Graduation course

Marcar apenas uma oval.

☐ Software Engineering

☐ Information systems

☐ Computer Science

☐ Computer Engineering

4. Which semester did you take the Software Quality course?

Marcar apenas uma oval.

☐ 2020.2

☐ 2021.1

5. What semester of the course were you in when you took the Software Quality course?

Marcar apenas uma oval.

☐ 3

☐ 4

☐ 5

☐ 6

☐ 7

☐ 8

☐ Outro: _____

6. Time of development experience in years: *

7. Level of knowledge in refactoring before the course: *

Rate your knowledge of the concepts and technologies below. None - never heard of this; Minimal - I hear about it but never use it; Basic - I have general knowledge, but I hardly ever use it; Intermediate - I have average knowledge and sometimes use it.; Advanced - I have in-depth knowledge and I often use this one; Expert - I am a subject matter expert and use it almost every day.

Marcar apenas uma oval.

- ☐ None
- ☐ Minimum
- ☐ Basic
- ☐ Intermediary
- ☐ Advanced
- ☐ Specialist

8. Level of knowledge in code smells before the course: *

Marcar apenas uma oval.

- ☐ None
- ☐ Minimum
- ☐ Basic
- ☐ Intermediary
- ☐ Advanced
- ☐ Specialist

9. Level of knowledge in code maintainability metrics before the course: *

Marcar apenas uma oval.

- ☐ None
- ☐ Minimum
- ☐ Basic
- ☐ Intermediary
- ☐ Advanced
- ☐ Specialist

Refactoring and Code Smells

10. Which code smells were the most difficult to refactor in the discipline's work? *

Marque todas que se aplicam.

- ☐ Feature Envy
- ☐ God Class
- ☐ Disperse Coupling
- ☐ Intensive coupling
- ☐ Refused parent bequest
- ☐ Shotgun surgery
- ☐ Long Method
- ☐ Brain Method
- ☐ Brain Class
- ☐ Duplicated Code
- ☐ Outro: _____

11. What types of refactoring are most used by you in the course work?

Marque todas que se aplicam.

- ☐ Extract Method
- ☐ Move Field
- ☐ Move Method
- ☐ Inline Method
- ☐ Extract Interface
- ☐ Extract Superclass
- ☐ Pull Up Field
- ☐ Pull Up Method
- ☐ Rename Method
- ☐ Push Down Field
- ☐ Push Down Method
- ☐ Outro: _____

12. What skills were you able to acquire by practicing code smells refactoring? *

Marque todas que se aplicam.

- ☐ Problem Solving
- ☐ Analysis Capacity
- ☐ Creativity
- ☐ Critical Thinking
- ☐ Decision Management
- ☐ Results Orientation
- ☐ Methodical Ability
- ☐ Team Work
- ☐ Change Management
- ☐ Outro: _____

13. In your opinion, did the practice of refactoring code smells improve or worsen the internal quality attributes? *

14. What are the main difficulties encountered by you in the practice of refactoring code smells? *

15. What benefits have you identified in the practice of refactoring code smells? *

16. What suggestions would you make to improve the work on code smells refactoring? *

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