

Software Analytics Survey

The survey will take approximately 4 minutes to complete.

My name is João Fidalgo, and I'm studying Software Engineering at FEUP. This survey is related with my dissertation topic, that is related with software analytics and continuous assessment of internal software quality, more specifically code quality, using analytics techniques.

Before presenting the artifact to help in the analytics activities, I would like you to answer this short survey to know the current knowledge about software analytics and the usage of some analytics tools.

* Required

1. What is your role in the current project? *

2. How many years of experience you have? *

3. How many years you have in this company? *

4. What is your project? *

5. What is Software Analytics to you? Briefly describe it. *

Software Analytics

Software analytics takes into account the source code, static and dynamic characteristics, and processes related with the development of the product. Software Analytics aims to describe, monitor, predict and improve the efficiency and quality of the software product. The main objective is to produce insightful and actionable information about the project that can help improve it and to prevent some future issues.

6. How often does your team use Software Analytics? *

Very rarely 1 2 3 4 5 Very often
☐ ☐ ☐ ☐ ☐

7. How often your team use metrics to inform their decisions? *

Very rarely 1 2 3 4 5 Very often
☐ ☐ ☐ ☐ ☐

8. If you answered 3, 4 or 5 in the previous question, which metrics? Do you think that those metrics give you important information for the problems you try to solve? Why? *

9. How does your team finds possible solutions to a issue? *

- ☐ Discussion based on experience
- ☐ Leaves it to the person in charge of that issue
- ☐ Implements and analyses metrics to obtain valuable information about it.
- ☐ Tries different solutions until it's fixed
- ☐
Other

10. How often your team defines quality thresholds concerning code quality? *

Quality thresholds like minimum test coverage, comment frequency, etc.

Very rarely 1 2 3 4 5 Very often
☐ ☐ ☐ ☐ ☐

11. How often do you use refactoring in your code? *

Very rarely 1 2 3 4 5 Very often
☐ ☐ ☐ ☐ ☐

12. Changes and improvements to the code are based on what? *

☐ Product owner decisions

☐ User reports

☐ Code metrics

☐ Members discussion

☐

Other

13. What is the importance of code quality in your project? *

From a range of Not Important at all to Very important.

Not important at all 1 2 3 4 5 Very important
☐ ☐ ☐ ☐ ☐