

Software Architecture in Practice

This survey is composed by statements about:

- * software architecture,
- * architectural conformance checking and tools,
- * architectural documentation.

***Obrigatório**

About you

1. What's your name? *

.....

2. In which city do you work? *

.....

3. In which programming languages do you have experience? *

You can pick more than one.

Marque todas que se aplicam.

☐ Java

☐ C

☐ C++

☐ C#

☐ Python

☐ PHP

☐ Ruby

☐ JavaScript

☐ Outro:

About the definition of Software Architecture

Rank from 1 to 5 according to your level of agreement.

1 - strongly disagree

2 - disagree

3 - no opinion about the statement

4 - agree

5 - strongly agree

4. There's no single definition for software architecture. *

Marcar apenas uma oval.

1 2 3 4 5

Strongly disagree ☐ ☐ ☐ ☐ ☐ Strongly agree

5. Which aspects are part of a software architecture? **Marque todas que se aplicam.*

- ☐ Static components (e.g. modules, packages, and subsystems)
- ☐ Dynamic components (e.g. processes, clients, and servers)
- ☐ Business aspects
- ☐ Hardware infrastructure, network, etc.
- ☐ Software infrastructure (e.g. database, programming language, and middleware)

About architectural documentation

6. It is important to document architectural aspects. **Marcar apenas uma oval.*

	1	2	3	4	5	
Strongly disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

7. Detailed architectural documents must be available: **Marcar apenas uma oval.*

- ☐ Never
- ☐ In some projects
- ☐ In most projects
- ☐ Always

8. The most common way of documenting the architecture is in plain text. **Marcar apenas uma oval.*

	1	2	3	4	5	
Strongly disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

9. Architectural documents, when existing, are usually not updated **Marcar apenas uma oval.*

	1	2	3	4	5	
Strongly disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

10. Non-updated architectural documents negatively impact on developers' productivity: **Marcar apenas uma oval.*

- ☐ This is never true
- ☐ This is true for some projects
- ☐ This is true for most projects
- ☐ This is always true

About Architectural Conformance Checking

(i.e. the task of checking whether the code follows the architecture)

11. It is important to perform architectural conformance checking: **Marcar apenas uma oval.*

- ☐ Never
- ☐ In some projects
- ☐ In most projects
- ☐ Always

12. Architectural conformance checking, when applied, is usually performed without tool support **Marcar apenas uma oval.*

	1	2	3	4	5	
Strongly disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

13. Architectural conformance checking is accurately done: **Marcar apenas uma oval.*

- ☐ Never
- ☐ In some projects
- ☐ In most projects
- ☐ Always

14. Architectural conformance checking is necessary to ensure code quality. **Marcar apenas uma oval.*

	1	2	3	4	5	
Strongly disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

15. Architectural conformance checking is not enough to ensure code quality. **Marcar apenas uma oval.*

	1	2	3	4	5	
Strongly disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

About Architectural Conformance Checking tools

16. Architectural conformance checking tools are rarely used. **Marcar apenas uma oval.*

	1	2	3	4	5	
Strongly disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

17. Existing architectural conformance checking tools are complex and require detailed specifications. *

Marcar apenas uma oval.

	1	2	3	4	5	
Strongly disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

18. Architectural conformance checking tools should be used: *

Marcar apenas uma oval.

- ☐ Never
☐ In some projects
☐ In most projects
☐ Always

19. Most developers resist to use architectural conformance checking tools. *

Marcar apenas uma oval.

	1	2	3	4	5	
Strongly disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

Just 3 more statements

20. The role of software architects varies widely among projects. *

Marcar apenas uma oval.

	1	2	3	4	5	
Strongly disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

21. Architectural violations (i.e code that does not follow the architecture decisions) have a negative impact on code quality. *

Marcar apenas uma oval.

	1	2	3	4	5	
Strongly disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

22. Academy and industry do not have mutual interest in synchronizing their working agendas in software architecture. *

Marcar apenas uma oval.

	1	2	3	4	5	
Strongly disagree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Strongly agree

Comments

23. Would you have any comments that you consider relevant for our research?

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Thanks for answering this survey!

