

Study on annotating implementation and design choices

*Required

Annotations Protocol Investigation

1. How frequently do you insert comments for annotating your implementation and design choices? *

Mark only one oval.

- Never
- Less than 25% of my development tasks
- Between 25% and 75% of my development tasks
- More than 75% of my development tasks

2. How frequently do you insert comments for annotating delayed or intended work activities such as TODO, FIXME, hack, workaround, etc? *

Mark only one oval.

- Never
- Less than 25% of my development tasks
- Between 25% and 75% of my development tasks
- More than 75% of my development tasks

3. Does your organisation have specific policies regarding the addition of annotations for the implementation and design choices? If yes, please describe them. *

4. Does your organisation have specific policies regarding the addition of annotations for delayed or intended work activities such as TODO, FIXME, hack, workaround, etc? If yes, please describe them. *

5. What are the tracing mechanism mainly used for annotating your implementation and design choices? *

Tick all that apply.

- Source Code
- Task Management Tools (e.g., Trello)
- Internal Mailing List
- Messaging Apps (e.g., Slack)
- Code Reviews or Pull Requests
- Issue Trackers
- Commit Messages
- Internal/Private Documents/Sheets

Other: _____

6. While annotating your implementation and design choices in the source code do you rely on IDE-supported annotations (e.g., automatically generated TODO)? *

Mark only one oval.

- No, I do not use annotations at all
- No, I ignore the IDE-supported annotations
- Yes, and I will not spend time in modifying their content
- Yes, but I will spend time modifying their content addign more useful information
- Other: _____

7. What are the main motivations for annotating the implementation and design choices? *

Tick all that apply.

- Reminder for yourself
- Reminder for the community, the development team, or the whole organization who could understand and improve the source code later on
- Reminder for newcomers joining/contributing to the project
- Annotating the presence of a misbehavior, to make everybody aware that the implementation and/or the design is not in the right shape as it should be
- Other: _____

8. What are the main motivations for not annotating your implementation and design choices? *

Tick all that apply.

- Lack of time
- I remember perfectly whether any portion of my source code needs to be improved
- I am shy reporting that my code is not in the right shape
- Other: _____

9. What is the typical content that you usually include while annotating delayed or intended work activities such as TODO, FIXME, hack, workaround, etc? *

Tick all that apply.

- Just a TAG (e.g., TODO, FIXME) as reminder
- A sentence explaining that the source code needs to be refactored or, in general, re-designed to make it more maintainable
- A sentence explaining that the source code needs to be refactored or, in general, re-designed to improve performance
- A sentence explaining that the program might not properly behave under certain conditions
- A sentence explaining that we are using a sub-optimal API and a better one needs to be found (you are not aware of that or simply it is not available yet)
- A sentence explaining that the feature being implemented is not complete
- A sentence highlighting that your code is a temporary fix that will be modified after a specific event will occur (e.g., fix a bug, release of a new API, implementation of a feature elsewhere in the project)
- A sentence highlighting the presence of a BUG in the source code

Other: _____

10. If you find an annotation reporting that the code is not in the right shape, in the code while implementing a new feature or improving an existing feature, what do you actually do? *

Tick all that apply.

- If I am the author of the admission, it simply reminds me that I have to find a proper solution
- If I am not the author of the annotation, I do not try to find a solution for it, but I will consider it while modifying the source code
- If I am not the author of the annotation, I try to find a solution for the problem stated in the annotation before applying further changes to the source code
- If I am not the author of the annotation, I simply ignore its content

Other: _____

Demographics Information

11. What is your highest education qualification?

Mark only one oval.

- Ph.D.
- Master Degree
- Bachelor Degree
- Other: _____

12. How many years of development experience do you have?

Mark only one oval.

- Less than 5
- Between 5 and 10
- More than 10

13. Which is the domain of your organization?

Mark only one oval.

- Software Development Consulting
- Information Technology
- Financial and Banking
- Safety Critical Systems
- Software As A Service Development
- Web Development or Design
- Data and Analytics
- Health Care or Social Services
- Other: _____

14. Which is your role in your current organization?

Mark only one oval.

- Software Developer
- Software Tester
- Manager
- Database Administrator
- Designer
- System Administrator
- DevOps Specialist
- Data Scientist or Machine Learning Specialist
- Researcher
- Other: _____

15. What programming languages do you typically use in your development activities?

Tick all that apply.

- Java
- Python
- C
- Javascript
- Ruby
- PHP
- Other: _____

16. Which IDEs do you usually use to develop code?

Tick all that apply.

- IntelliJ IDEA
- Eclipse
- NetBeans
- Dev-C++
- Visual Studio .NET
- Xcode

Other: _____

17. What Kind of communication channels/SCM tools do you typically use?

Tick all that apply.

- Issues Trackers
- Pull Requests/Code Review Tools
- Mailing List
- SCRUMs board
- Chats and Other Communication Channels (e.g., Slack or IRC)

Other: _____

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