

Questionnaire to Developers

Ao Dong

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Several questions are borrowed from [Jegatheesan2016](#)

1 Information about the developers and users

1. Interviewees' current position/title? degrees?
2. Interviewees' contribution to/relationship with the software?
3. Length of time the interviewee has been involved with this software?
4. How large is the development group?
5. What is the typical background of a developer?
6. How large is the user group?
7. What is the typical background of a user?

2 Information about the software

1. [\[General —AD\]](#) What is the most important software quality(ies) to your work? (set of selected qualities plus "else")
2. [\[General —AD\]](#) Are there any examples where the documentation helped? If yes, how it helped. (yes*, no)
3. [\[General —AD\]](#) Is there any documentation you feel you should produce and do not? If yes, what is it and why? (yes*, no)
4. [\[Completeness —AD\]](#) Do you address any of your quality concerns using documentation? If yes, what are the qualities and the documents. (yes*, no)
5. [\[Visibility/Transparency —AD\]](#) Is there a certain type of development methodologies used during the development? ({Waterfall, Scrum, Kanban, else})

6. [Visibility/Transparency —AD] Is there a clearly defined development process? If yes, what is it. ({yes*, no})
7. [Visibility/Transparency —AD] Are there any project management tools used during the development? If yes, what are they. ({yes*, no})
8. [Visibility/Transparency —AD] Going forward, will your approach to documentation of requirements and design change? If not, why not. ({yes, no*})
9. [Correctness and Verifiability —AD] During the process of development, what tools or techniques are used to build confidence of correctness? (string)
10. [Correctness and Verifiability —AD] Do you use any tools to support testing? If yes, what are they. (e.g. unit testing tools, regression testing suites) ({yes*, no})
11. [Correctness and Verifiability —AD] Is there any document about the requirements specifications of the program? If yes, what is it. ({yes*, no})
12. [Portability —AD] Do you think that portability has been achieved? If yes, how? ({yes*, no})
13. [Maintainability —AD] How was maintainability considered in the design? (string)
14. [Maintainability —AD] What is the maintenance type? (set of {corrective, adaptive, perfective, unclear})
15. [Reusability —AD] How was reusability considered in the design? (string)
16. [Reusability —AD] Are any portions of the software used by another package? If yes, how they are used. (yes*, no)
17. [Reproducibility —AD] Is reproducibility important to you? (yes*, no)
18. [Reproducibility —AD] Do you use tools to help reproduce previous software results? If yes, what are they. (e.g. version control, configuration management) (yes*, no)
19. [Completeness —AD] Is any of the following documents used during the development? (yes*, no)
 - Module Guide
 - Module Interface Specification
 - Verification and Validation Plan
 - Verification and Validation Report
20. [General —AD] Will this experience influence how you develop software? Do you see yourself maintaining the same level of documentation, tool support as you go forward? (string)