

User Experience and Tool Usability Questionnaire

This questionnaire was designed to gather user feedback on the usability and effectiveness of the SOFL-ASMAT.

Instructions

Please answer the following questions based on your experience with the tool. For multiple-choice questions, please mark all applicable options. For Likert scale questions, rate your agreement with the statements on a scale from 1 to 5, where 1 = Strongly Disagree and 5 = Strongly Agree.

Respondent Profile

1. What is your highest level of education (please select the highest level, including those currently in progress)? [\[Single-choice item\]](#)

1) Associate's degree; 2) Bachelor's degree; 3) Master's degree; 4) Doctoral degree

2. What is your current occupation? [\[Single-choice item\]](#)

1) Student; 2) Developer; 3) Maintainer; 4) SOFL Expert

3. How many years of experience do you have in software development? [\[Single-choice item\]](#)

1) No experience; 2) 0-2 years; 3) 2-5 years; 4) More than 5 years

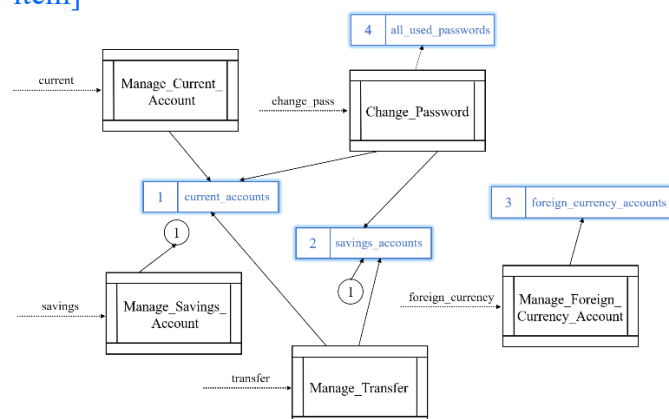
4. How familiar are you with SOFL formal specifications? [\[Single-choice item\]](#)

1) Beginner; 2) Intermediate; 3) Advanced

5. Have you previously used automated tools for software maintainability assessment? [\[Single-choice item\]](#)

1) Yes; 2) No

6. Are you familiar with the ATM system used in this experiment [\[Likert-scale item\]](#)

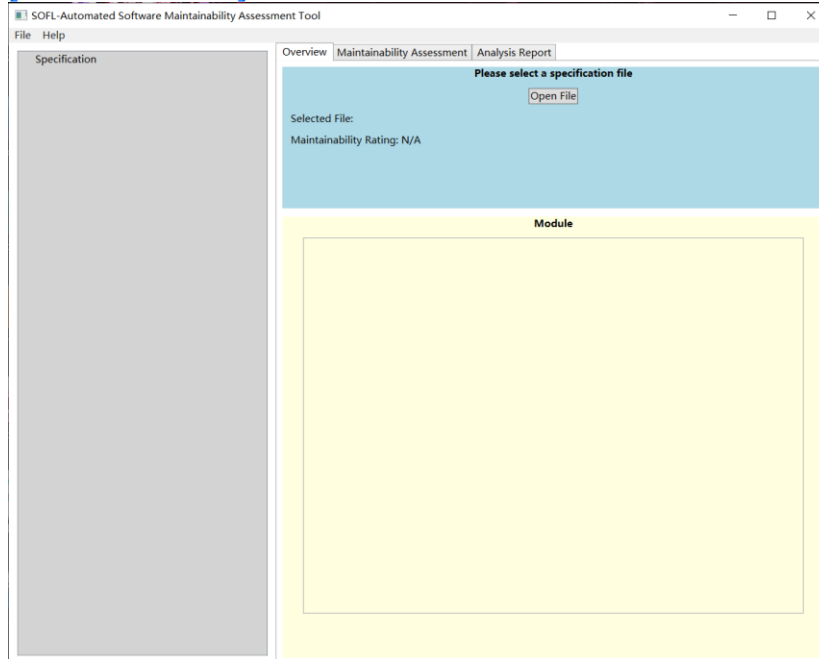


1 = Very unfamiliar; 2 = Unfamiliar; 3 = Neutral; 4 = Familiar; 5 = Very familiar

Tool Usability and User Experience

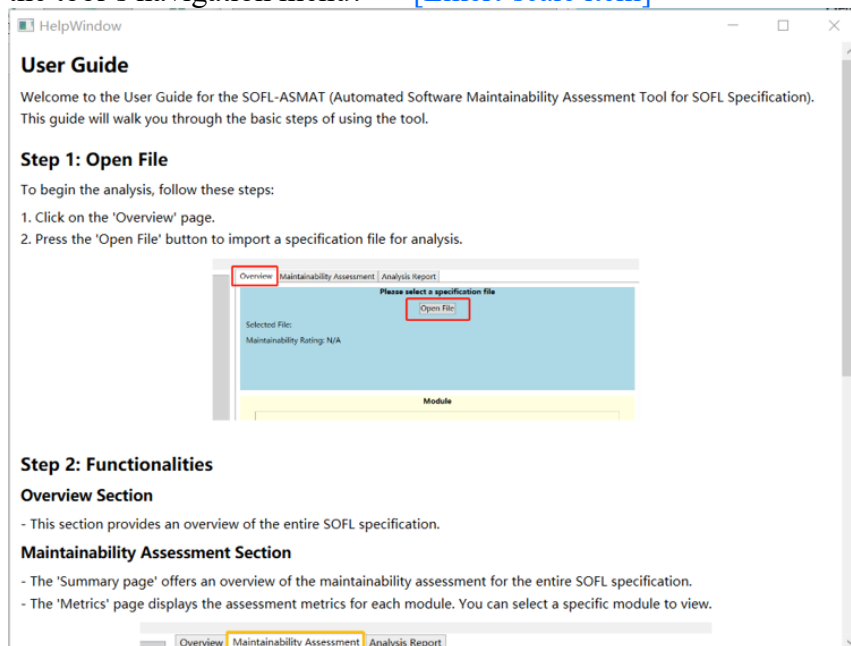
7. Do you think it is easy to find the navigation bar in the interface and use the tool?

[\[Likert-scale item\]](#)



1 = Strongly Disagree; 2 = Disagree; 3 = Neutral; 4 = Agree; 5 = Strongly Agree

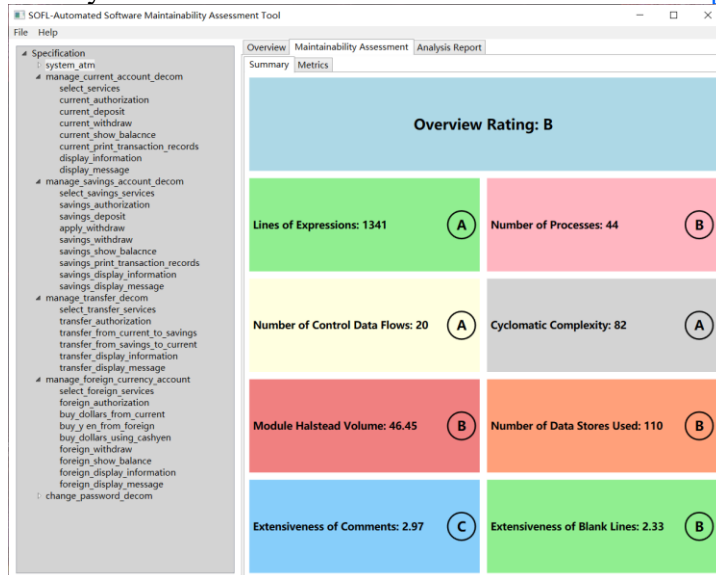
8. Are you satisfied with the clarity and completeness of the instructions provided in the tool's navigation menu? [\[Likert-scale item\]](#)



1 = Very Dissatisfied; 2 = Dissatisfied; 3 = Neutral; 4 = Satisfied; 5 = Very Satisfied

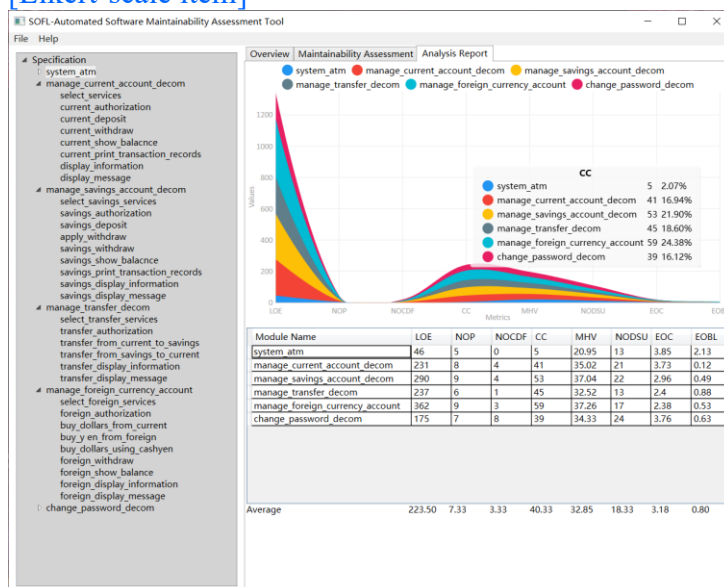
Interface and Interaction

9. Do you find the tool's metric interface intuitive? [\[Likert-scale item\]](#)



1 = Strongly Disagree; 2 = Disagree; 3 = Neutral; 4 = Agree; 5 = Strongly Agree

10. Do you find the visualization of metric data helpful in assessing maintainability? [\[Likert-scale item\]](#)



1 = Strongly Disagree; 2 = Disagree; 3 = Neutral; 4 = Agree; 5 = Strongly Agree

Efficiency

11. How long does it take you to assess the maintainability of SOFL specifications (around 1000 lines)? [\[Single-choice item\]](#)

1) Less than 0.5 hours; 2) 0.5-2 hours; 3) 2-3 hours; 4) More than 3 hours; 5) Have not conducted maintainability assessment

*If you selected 5) Have not conducted maintainability assessment, please answer question 12.

12. Why have you not conducted a maintainability assessment? [\[Multiple-choice item\]](#)

1) Because maintainability is difficult to quantify; 2) Because other software quality metrics, such as reliability, are more important; 3) Because there are no related assessment tools; 4) Because maintainability assessment is time consuming and labor-intensive; 5) Other (please specify)

13. Based on your experience, how would you rate the tool's efficiency in assessing the maintainability of SOFL specifications? [\[Likert-scale item\]](#)

1 = Very Dissatisfied; 2 = Dissatisfied; 3 = Neutral; 4 = Satisfied; 5 = Very Satisfied

14. Do you think this tool has saved you time compared to manual evaluation? [\[Likert-scale item\]](#)

1 = Strongly Disagree; 2 = Disagree; 3 = Neutral; 4 = Agree; 5 = Strongly Agree

Practicality

15. Do you find the tool useful in assessing the maintainability of SOFL specifications? [\[Likert-scale item\]](#)

1 =Not Useful at All; 2 =Mostly Not Useful; 3 =Neutral; 4 =Useful; 5 = Very Useful

16. Would you recommend this tool to other developers or teams? [\[Likert-scale item\]](#)

1 =Definitely Not; 2 = Probably Not; 3 = Uncertain; 4 = Probably Yes; 5 = Definitely Yes

17. Overall, do you think the tool satisfies your needs? [\[Likert-scale item\]](#)

1 = Very Dissatisfied; 2 = Dissatisfied; 3 = Neutral; 4 = Satisfied; 5 = Very Satisfied

18. What do you think are the advantages and disadvantages of this tool [\[Open-ended\]](#)

This concludes the questionnaire, thank you for your participation.