

Software Requirements Engineering Project Decision Making Process

Questionnaire

Group number: _____

- The questionnaire is completed in groups. Please fill in according to the actual situation.
- The completion time of the questionnaire is 2:05-5:25, and it can be submitted ahead of schedule.

| Questions | Answers |
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| Requirements elicitation | |
| 1. What types of problems do you think are important, need decision making, and why? | Type of problem: Please explain the reason: |
| 2. Do you understand the questions to be made a decision? | (Completely understanding / Almost understanding / Partly understanding / Almost not understanding / Completely not understanding) |
| 3. What are the sources of alternatives for decision-making in an RE activity? (Multiple choice question) | (Directly using existing solutions/ Modifying existing solutions/ Formulating new solutions/ Others _____) Please explain the reason: |
| 4. Do you evaluate the alternatives in decision-making process? | (Alternatives will be evaluated in all of the issues / Alternatives will be evaluated in most of the issues / Alternatives will be evaluated in about half of the issues / Alternatives will be evaluated in a few of the issues / Alternatives will be evaluated in none of the issues) Please explain the reason: |
| 5. What kind of evaluation method do | Note: if there is no alternative option in the decision making process, please skip this question. (Allocating weight for each dimensions to be evaluated / Scoring for alternatives / Formulating |

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| <p>you usually adopt when evaluating alternatives for decision making? (Multiple choice question)</p> | <p>evaluation criteria / Others _____)</p> |
| <p>6. How do you choose solutions for decision making, and why? (Multiple choice question)</p> | <p>(Selecting the first solution meets the requirements, no longer considering other solutions / Considering partial solutions, choosing the best solution (local optimal solutions) / Considering as much as possible solutions, choosing the optimal solution (globally optimal solution)/ Others_____)</p> <p>Please explain the reason:</p> |
| <p>7. Are there any member of group responsible in decision-making process?</p> | <p>(Yes / No)</p> |
| <p>8. How many decisions are made with the involvement of all members?</p> | <p>(All of decisions / Most of decisions / About half of decisions / A few of decisions / None of decisions)</p> <p>Please explain the reason:</p> |
| <p>9. What kinds of problems do you think not need decision-making, and Why?</p> | <p>Question type:</p> <p>Please explain the reason:</p> |

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| 10. Are customers involved in decision-making process? | (Participating in each decision / Participating in most decisions / Participating in about half of decisions / Participating in a few of decisions / Not participating in any decision) Please explain the reason: |
| Requirements analysis | |
| 11. What types of problems do you think are important, need decision making, and why? | Type of problem: Please explain the reason: |
| 12. Do you understand the questions to be made a decision? | (Completely understanding / Almost understanding / Partly understanding / Almost not understanding / Completely not understanding) |
| 13. What are the sources of alternatives for decision-making in an RE activity? (Multiple choice question) | (Directly using existing solutions/ Modifying existing solutions/ Formulating new solutions/ Others_____) Please explain the reason: |

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| 14. Do you evaluate the alternatives in decision-making process? | (Alternatives will be evaluated in all of the issues / Alternatives will be evaluated in most of the issues / Alternatives will be evaluated in about half of the issues / Alternatives will be evaluated in a few of the issues / Alternatives will be evaluated in none of the issues) Please explain the reason: |
| 15. What kind of evaluation method do you usually adopt when evaluating alternatives for decision making? (Multiple choice question) | Note: if there is no alternative option in the decision making process, please skip this question. (Allocating weight for each dimensions to be evaluated / Scoring for alternatives / Formulating evaluation criteria / Others _____) |
| 16. How do you choose solutions for decision making, and why? (Multiple choice question) | (Selecting the first solution meets the requirements, no longer considering other solutions / Considering partial solutions, choosing the best solution (local optimal solutions) / Considering as much as possible solutions, choosing the optimal solution (globally optimal solution)/ Others _____) Please explain the reason: |
| 17. Are there any member of group responsible in decision-making process? | (Yes / No) |
| 18. How many decisions are made with the involvement of all members? | (All of decisions / Most of decisions / About half of decisions / A few of decisions / None of decisions) Please explain the reason: |

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| <p>19. What kinds of problems do you think not need decision-making, and Why?</p> | <p>Question type:</p> <p>Please explain the reason:</p> |
| <p>20. Are customers involved in decision-making process?</p> | <p>(Participating in each decision / Participating in most decisions / Participating in about half of decisions / Participating in a few of decisions / Not participating in any decision)</p> <p>Please explain the reason:</p> |
| <p>Requirements validation</p> | |
| <p>21. What types of problems do you think are important, need decision making, and why?</p> | <p>Type of problem:</p> <p>Please explain the reason:</p> |
| <p>22. Do you understand the questions to be made a decision?</p> | <p>(Completely understanding / Almost understanding / Partly understanding / Almost not understanding / Completely not understanding)</p> |

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| <p>23. What are the sources of alternatives for decision-making in an RE activity? (Multiple choice question)</p> | <p>(Directly using existing solutions/ Modifying existing solutions/ Formulating new solutions/ Others_____)</p> <p>Please explain the reason:</p> |
| <p>24. Do you evaluate the alternatives in decision-making process?</p> | <p>(Alternatives will be evaluated in all of the issues / Alternatives will be evaluated in most of the issues / Alternatives will be evaluated in about half of the issues / Alternatives will be evaluated in a few of the issues / Alternatives will be evaluated in none of the issues)</p> <p>Please explain the reason:</p> |
| <p>25. What kind of evaluation method do you usually adopt when evaluating alternatives for decision making? (Multiple choice question)</p> | <p>Note: if there is no alternative option in the decision making process, please skip this question.</p> <p>(Allocating weight for each dimensions to be evaluated / Scoring for alternatives / Formulating evaluation criteria / Others _____)</p> |
| <p>26. How do you choose solutions for decision making, and why? (Multiple choice question)</p> | <p>(Selecting the first solution meets the requirements, no longer considering other solutions / Considering partial solutions, choosing the best solution (local optimal solutions) / Considering as much as possible solutions, choosing the optimal solution (globally optimal solution)/ Others_____)</p> <p>Please explain the reason:</p> |
| <p>27. Are there any</p> | <p>(Yes / No)</p> |

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| member of group responsible in decision-making process? | |
| 28. How many decisions are made with the involvement of all members? | (All of decisions / Most of decisions / About half of decisions / A few of decisions / None of decisions) Please explain the reason: |
| 29. What kinds of problems do you think not need decision-making, and Why? | Question type: Please explain the reason: |
| 30. Are customers involved in decision-making process? | (Participating in each decision / Participating in most decisions / Participating in about half of decisions / Participating in a few of decisions / Not participating in any decision) Please explain the reason: |
| Requirements negotiation | |

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| 31. What types of problems do you think are important, need decision making, and why? | Type of problem: Please explain the reason: |
| 32. Do you understand the questions to be made a decision? | (Completely understanding / Almost understanding / Partly understanding / Almost not understanding / Completely not understanding) |
| 33. What are the sources of alternatives for decision-making in an RE activity? (Multiple choice question) | (Directly using existing solutions/ Modifying existing solutions/ Formulating new solutions/ Others _____) Please explain the reason: |
| 34. Do you evaluate the alternatives in decision-making process? | (Alternatives will be evaluated in all of the issues / Alternatives will be evaluated in most of the issues / Alternatives will be evaluated in about half of the issues / Alternatives will be evaluated in a few of the issues / Alternatives will be evaluated in none of the issues) Please explain the reason: |
| 35. What kind of evaluation method do you usually adopt when evaluating alternatives for | Note: if there is no alternative option in the decision making process, please skip this question. (Allocating weight for each dimensions to be evaluated / Scoring for alternatives / Formulating evaluation criteria / Others _____) |

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| decision making? (Multiple choice question) | |
| 36. How do you choose solutions for decision making, and why? (Multiple choice question) | (Selecting the first solution meets the requirements, no longer considering other solutions / Considering partial solutions, choosing the best solution (local optimal solutions) / Considering as much as possible solutions, choosing the optimal solution (globally optimal solution)/ Others_____) Please explain the reason: |
| 37. Are there any member of group responsible in decision-making process? | (Yes / No) |
| 38. How many decisions are made with the involvement of all members? | (All of decisions / Most of decisions / About half of decisions / A few of decisions / None of decisions) Please explain the reason: |
| 39. What kinds of problems do you think not need decision-making, and Why? | Question type: Please explain the reason: |

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| <p>40. Are customers involved in decision-making process?</p> | <p>(Participating in each decision / Participating in most decisions / Participating in about half of decisions / Participating in a few of decisions / Not participating in any decision)</p> <p>Please explain the reason:</p> |
| <p>Requirements documentation</p> | |
| <p>41. What types of problems do you think are important, need decision making, and why?</p> | <p>Type of problem:</p> <p>Please explain the reason:</p> |
| <p>42. Do you understand the questions to be made a decision?</p> | <p>(Completely understanding / Almost understanding / Partly understanding / Almost not understanding / Completely not understanding)</p> |
| <p>43. What are the sources of alternatives for decision-making in an RE activity? (Multiple choice question)</p> | <p>(Directly using existing solutions/ Modifying existing solutions/ Formulating new solutions/ Others_____)</p> <p>Please explain the reason:</p> |

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| 44. Do you evaluate the alternatives in decision-making process? | (Alternatives will be evaluated in all of the issues / Alternatives will be evaluated in most of the issues / Alternatives will be evaluated in about half of the issues / Alternatives will be evaluated in a few of the issues / Alternatives will be evaluated in none of the issues) Please explain the reason: |
| 45. What kind of evaluation method do you usually adopt when evaluating alternatives for decision making? (Multiple choice question) | Note: if there is no alternative option in the decision making process, please skip this question. (Allocating weight for each dimensions to be evaluated / Scoring for alternatives / Formulating evaluation criteria / Others _____) |
| 46. How do you choose solutions for decision making, and why? (Multiple choice question) | (Selecting the first solution meets the requirements, no longer considering other solutions / Considering partial solutions, choosing the best solution (local optimal solutions) / Considering as much as possible solutions, choosing the optimal solution (globally optimal solution)/ Others _____) Please explain the reason: |
| 47. Are there any member of group responsible in decision-making process? | (Yes / No) |
| 48. How many decisions are made with the involvement of all members? | (All of decisions / Most of decisions / About half of decisions / A few of decisions / None of decisions) Please explain the reason: |

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| <p>49. What kinds of problems do you think not need decision-making, and Why?</p> | <p>Question type:</p> <p>Please explain the reason:</p> |
| <p>50. Are customers involved in decision-making process?</p> | <p>(Participating in each decision / Participating in most decisions / Participating in about half of decisions / Participating in a few of decisions / Not participating in any decision)</p> <p>Please explain the reason:</p> |