**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.

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| **Questions** | **Answers** |
| 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 need for decision making? | （Completely understanding / Almost understanding / Partly understanding / Almost not understanding / Completely not understanding） |
| 3. Have you evaluated the alternatives for decision making? **（**Multiple choice question**）** | （Directly using existing solutions/ Modifying existing solutions/ Formulating new solutions/ Others\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_）  Please explain the reason： |
| 4. Do you evaluate the alternatives for decision making in the 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 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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_） |
| 6. 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： |
| 7. Are there any members responsible for the decision making process? Please give an example. | （Yes / No） |
| 8. How many decisions are required to be completed by all members of the team in the process, and why？ | （All of decisions / Most of decisions / About half of decisions / A few of decisions / None of decisions）  Please explain the reason： |
| 9. What kinds of problems do you think not need decision-making, and Why? | Question type:  Please explain the reason： |
| 10. Is the customer team involved in the 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 need for decision making？ | （Completely understanding / Almost understanding / Partly understanding / Almost not understanding / Completely not understanding） |
| 13. Have you evaluated the alternatives for decision making？**（**Multiple choice question**）** | （Directly using existing solutions/ Modifying existing solutions/ Formulating new solutions/ Others\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_）  Please explain the reason： |
| 14. Do you evaluate the alternatives for decision making in the 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 members responsible for the decision making process? Please give an example. | （Yes / No） |
| 18. How many decisions are required to be completed by all members of the team in the process, and why？ | （All of decisions / Most of decisions / About half of decisions / A few of decisions / None of decisions）  Please explain the reason： |
| 19. What kinds of problems do you think not need decision-making, and Why? | Question type:  Please explain the reason： |
| 20. Is the customer team involved in the 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 validation | |
| 21. What types of problems do you think are important, need decision making, and why? | Type of problem：  Please explain the reason： |
| 22. Do you understand the questions need for decision making？ | （Completely understanding / Almost understanding / Partly understanding / Almost not understanding / Completely not understanding） |
| 23. Have you evaluated the alternatives for decision making？**（**Multiple choice question**）** | （Directly using existing solutions/ Modifying existing solutions/ Formulating new solutions/ Others\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_）  Please explain the reason： |
| 24. Do you evaluate the alternatives for decision making in the 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： |
| 25. 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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_） |
| 26. 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： |
| 27. Are there any members responsible for the decision making process? Please give an example. | （Yes / No） |
| 28. How many decisions are required to be completed by all members of the team in the process, and why？ | （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. Is the customer team involved in the 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 | |
| 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 need for decision making？ | （Completely understanding / Almost understanding / Partly understanding / Almost not understanding / Completely not understanding） |
| 33. Have you evaluated the alternatives for decision making？**（**Multiple choice question**）** | （Directly using existing solutions/ Modifying existing solutions/ Formulating new solutions/ Others\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_）  Please explain the reason： |
| 34. Do you evaluate the alternatives for decision making in the 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 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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_） |
| 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 members responsible for the decision making process? Please give an example. | （Yes / No） |
| 38. How many decisions are required to be completed by all members of the team in the process, and why？ | （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： |
| 40. Is the customer team involved in the 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 documentation | |
| 41. What types of problems do you think are important, need decision making, and why? | Type of problem：  Please explain the reason： |
| 42. Do you understand the questions need for decision making？ | （Completely understanding / Almost understanding / Partly understanding / Almost not understanding / Completely not understanding） |
| 43. Have you evaluated the alternatives for decision making？**（**Multiple choice question**）** | （Directly using existing solutions/ Modifying existing solutions/ Formulating new solutions/ Others\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_）  Please explain the reason： |
| 44. Do you evaluate the alternatives for decision making in the 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 members responsible for the decision making process? Please give an example. | （Yes / No） |
| 48. How many decisions are required to be completed by all members of the team in the process, and why？ | （All of decisions / Most of decisions / About half of decisions / A few of decisions / None of decisions）  Please explain the reason： |
| 49. What kinds of problems do you think not need decision-making, and Why? | Question type:  Please explain the reason： |
| 50. Is the customer team involved in the 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： |