

Questions following Question 6 and Question 7 are associated with the corresponding options of Question 6 and Question 7, respectively. Selecting the corresponding option will display the associated questions.

1. Is agile development and related technologies commonly used in your company? (Single choice)

- Rarely used (0%~10%)
- Used by a small portion (10%~30%)
- Partially used (30%~60%)
- Mostly used (60%~90%)
- Strongly required (100%)

2. In which of the following areas do you think software products developed using agile methodologies are better than those produced through traditional development processes? (Multiple choices)

- Flexibility in development process
- Project planning and control
- Customer involvement in delivery cycles
- Delivery cycle
- Risk management
- Documentation and process standards
- Team collaboration and communication
- Quality control

3. How many members are in your agile development team? (Single choice)

- 1~20 people
- 21~50 people
- More than 50 people

4. What large-scale agile methodologies has your team implemented? (Multiple choices)

- DAD
- LeSS
- SAFe
- Spotify
- Nexus
- RAGE
- Other (Fill-in-the-blank)

5. What do you think is the ideal team size for implementing agile methodologies? (Single choice)

- 1~10 people
- 11~20 people
- 21~50 people
- More than 50 people

6. In your opinion, which phases of software engineering development have been significantly improved by agile methodologies? (Multiple choices)

- Requirements Collection and Analysis
- Design and Coding
- Iteration/Sprint Execution
- Test
- Review and Retrospective

- Deployment and Delivery
- Continuous Improvement and Maintenance

At which step of Requirements Collection and Analysis do you think agile development has brought the improvement? (Multiple choices)

- User Story Writing
- Requirement Prioritization
- Acceptance Criteria Definition
- Requirement Clarification

At which step of Design and Coding do you think agile development has brought the improvement? (Multiple choices)

- Architecture Selection and Design
- Interface Definition and Design
- Algorithm Design and Implementation

At which step of Iteration/Sprint Execution do you think agile development has brought the improvement? (Multiple choices)

- Task Allocation
- Continuous Integration
- Code Review

At which step of Test do you think agile development has brought the improvement? (Multiple choices)

- Unit Testing
- Integration Testing
- System Testing
- Acceptance Testing
- Regression Testing
- Test Documentation Writing

At which step of Review and Retrospective do you think agile development has brought the improvement? (Multiple choices)

- Iteration/Sprint Review
- Iteration/Sprint Retrospective
- Improvement Action Planning

At which step of Deployment and Delivery do you think agile development has brought the improvement? (Multiple choices)

- Deployment Planning
- Deployment Execution
- Post-deployment Monitoring

At which step of Continuous improvement and maintenance do you think agile development has brought the improvement? (Multiple choices)

- Feedback Collection
- Bug Fixing
- Performance Optimization
- Feature Update

- Documentation

7. In your opinion, which phases of software engineering development are poorly supported by agile methodologies? (Multiple choices)

- Requirements Collection and Analysis
- Design and Coding
- Iteration/Sprint Execution
- Test
- Review and Retrospective
- Deployment and Delivery
- Continuous improvement and maintenance

At which step of Requirements Collection and Analysis do you think agile development provides poor support? (Multiple choices)

- User Story Writing
- Requirement Prioritization
- Acceptance Criteria Definition
- Requirement Clarification

At which step of Design and Coding do you think agile development provides poor support? (Multiple choices)

- Architecture Selection and Design
- Interface Definition and Design
- Algorithm Design and Implementation

At which step of Iteration/Sprint Execution do you think agile development provides poor support? (Multiple choices)

- Task Allocation
- Continuous Integration
- Code Review

At which step of Test do you think agile development provides poor support? (Multiple choices)

- Unit Testing
- Integration Testing
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At which step of Review and Retrospective do you think agile development provides poor support? (Multiple choices)

- Iteration/Sprint Review
- Iteration/Sprint Retrospective
- Improvement Action Planning

At which step of Deployment and Delivery do you think agile development provides poor support? (Multiple choices)

- Deployment Planning
- Deployment Execution

- Post-deployment Monitoring

At which step of Continuous improvement and maintenance do you think agile development provides poor support? (Multiple choices)

- Feedback Collection
- Bug Fixing
- Performance Optimization
- Feature Update
- Documentation

8. What are the main reasons for the above choices (i.e., not enough support from Agile)? (Multiple choices)

- It is difficult for the team members to communicate with each other
- The requirements are not so clear, and keep changing
- There are not enough good tools
- Enterprise architecture and culture conflict with agile
- Project management is overly complex
- Testing of the product is difficult and inadequate
- Other (Fill-in-the-blank)

9. What do you think of using tools in the Agile development process? (Multiple choices)

- The tools can help the development team better manage the sub-tasks
- The tools can improve the co-ordination and co-operation between team members
- The tools can make some repetitive tasks easier
- The tools can help developers collect and analyze data
- Relying on tools too heavily may result in fewer face-to-face communication
- Some tools may be too complex and have a high learning curve
- Using tools and following the related procedures strictly may reduce the flexibility and adaptiveness which are key features of agile

10. What techniques and tools can deal with the above-mentioned challenges? (Fill-in-the-blank)