Agile Interview Questions and Answers

Introduction

For software companies, agile is an essential approach and philosophy. It improves the adaptability, efficiency, and communication of the team. Using the Agile interview questions and answers in this article is the easiest way to prepare for interviews with Agile engineers. Upgrade your career with our Agile course in Chennai.

List of Agile Interview Questions for Freshers

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Agile Interview Questions and Answers for Freshers

1. What is Agile?

Agile is a well-liked collection of techniques and procedures with a strong emphasis on interactive development. Cross-functional teams work together in a self-organizing manner to gather needs from customers and identify potential solutions.

It entails three steps: preparation, carrying out, and assessment. Using this approach, the team delivers incremental versions of the project, each more developed than the last.

2. Define a test stub.

A test stub is a little piece of code that mimics the behavior of a certain component. The output from the stub is identical to that of the original component and yields reliable results.

3. What purpose do daily stand-up meetings serve?

Every contributor reports on their job progress during the daily stand-up meetings, which are crucial forums for team discussions. They talk about the steps needed to finish the remaining project, how to fix the technical problems, etc.

4. Which projects are appropriate for the Agile methodology?

Agile methodology works best on projects with changing requirements on a regular basis. This testing method's time-focused, iterative approach can consistently produce useful test findings.

5. Define Kanban.

Software called Kanban offers a visual depiction of the task in progress. It follows the project's progress as it moves through a process. With a card that is delivered down the production line, this system also controls the project's component supply.

6. How fast is a sprint measured, and what is the sprint velocity?

The number of tasks the team completes in a sprint determines its pace. Sprint after sprint, it represents the team's rate of advancement. The story points earned in a completed sprint are then divided by the total number of completed sprints to determine the velocity.

7. Define extreme programming in Agile.

It's a framework that helps groups produce high-caliber software that enhances people's lives. It makes software development possible in conjunction with proper and pertinent engineering methods. It can be used to manage evolving software needs, new software-related risks, manage a small, extended development team, and leverage technology that enables automated functional and unit testing.

8. Explain Lean in Agile.

It is a collection of methods and ideas that emphasize finding and eliminating waste to hasten the development of processes. Waste is reduced while value is increased. It finds application in nearly all industries that generate trash in one way or another.

9. What is a crystal in Agile?

Instead of emphasizing devices and procedures, it concentrates on people and their interactions. Crystal operates under the tenet that every project is different and dynamic, to streamline procedures and enhance optimization. When improving team

communication, continuous integration, user engagement, and adjustable processes are the main goals, they are employed.

10. What are the main strategies for Agile quality?

Among the principal Agile quality tactics are:

- Iteration
- Refactoring
- Code analysis
- Milestone reviews
- Short feedback sprints
- Inspections and reviews
- Guidelines and standards

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List of Agile Interview Questions for Experienced

1. Differentiate between Agile and Scrum
2. When is the perfect moment to apply the agile model?
3. How does the agile testing technique operate?
4. Differentiate between burn-up and burn-down charts.
5. What do the roles in Scrum mean?
6. What are sprint backlogs and product backlogs?
7. What Are Agile Testing's governing principles?
8. What are the key components of the Agile process?
9. Which agile matrices are the most important ones?
10. What difficulties does the team encounter while using the Agile process?

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Agile Technical Interview Questions and Answers for Experienced

1. Differentiate between Agile and Scrum.

The differences between Scrum and Agile are as follows:

Agile:

- Project management is done using the agile method.
- Agile is a whole, ongoing process that is used to create and enhance products.

Scrum:

- It is a systematic approach that explains an agile process. You can refer to Scrum as a process and Agile as a practice.
- This methodology is provided following each sprint of development.

2. When is the perfect moment to apply the agile model?

The following are the settings in which the agile approach can be applied:

- **Allocation of work categories:** It gives you total control over how you spend your time and prioritizes your tasks.
- **Awareness of defect removal:** This aids in the active members' production of high-quality items.
- **Sprint burn-down matrix:** used to monitor task accomplishment using the sprint methodology.
- **Diagram of cumulative flow:** The time is displayed on the x-axis, and the effort is represented on the y-axis in this consistent workflow check.
- **Coverage of time:** The test suite terms the number of relative lines of code, which is used to calculate the time as a percentage of the total number of lines of code.
- **Provided business value:** Each project has 100 points, and this one is about the team's productivity.
- **Defect resolution time:** This refers to the procedure by which the group finds and corrects errors.

3. How does the agile testing technique operate?

The following steps outline how the agile methodology functions in testing:

Step 1: Testing starts as soon as software development gets underway, and testers examine each new feature and module that is developed.

Step 2: To make the product's feature development more manageable, they next divide it into smaller chunks. Tasks, requirements, and user stories are examples of these components.

Step 3: By doing this, the testing unit may now concentrate more intently on each part, improving efficiency and accuracy.

4. Differentiate between burn-up and burn-down charts.

Using the same axis, burn-up and burn-down charts are used to monitor a project's development. These are the variations between these two charts, though.

Burn-up chart:

- The finished job and total quantity are displayed on the burn-up chart.
- The line in this chart runs from the bottom to the top.

Burndown chart:

- You can see how much work still needs to be done by looking at the burndown.
- As the team advances in the project development process, the line in the burndown chart shifts from the top towards the bottom.

5. What do the roles in Scrum mean?

One prominent component of agile Scrum interview questions is defining the role of Scrum. In Scrum, there are three roles:

- **Product owner:** The owner is aware of what the customer wants. As a result, students identify the features of the product and rank them. They also have a goal of growing the ROI for the entire team.
- **The scrum master** is in charge of both the scrum team and the project. It facilitates their adoption of agile processes. They aid in the product owner's comprehension of the features and procedure.
- **Scrum team:** This group fulfills stakeholder requirements while operating under the direction of the scrum master.

6. What are sprint backlogs and product backlogs?

The product backlog is different from the other two backlogs in that it includes all of the product's modules and requirements. It provides you with details on the assignments that need to be finished. It also covers the entire process required to complete these tasks to accomplish the goal.

- Conversely, the Sprint Backlog is a Product Backlog sub-division. It is a thorough prerequisite and feature for a certain sprint.
- The sprint team owns the sprint backlog, whereas the application owner owns the product backlog.

7. What are Agile Testing's governing principles?

- Testing frequently to guarantee ongoing product development
- Constant feedback is needed to guarantee that the product meets the needs of the business
- The testing process requires team members in jobs like development and testing to be actively participate.
- Getting the business team and user reps involved early on can help ensure that each iteration receives prompt feedback.
- Simplified and clean code guarantees that there are no errors during the loop.
- The documentation that is produced must be restricted to a specific version.
- Alongside development and implementation, testing is carried out to guarantee that the final product is error-free.
- Including the user guarantees that the finished product satisfies their needs.

8. What are the key components of the Agile process?

The following are the key components of the Agile Process:

- **Flexibility:** Adjust to all modifications and novel demands.
- **Efficiency:** To produce high-quality results, each person must be efficient and constantly improve with feedback.
- **Cooperation:** Everybody involved must help the project reach its objective.

- **Disruption:** One worthwhile disruption is to modify the conventional approach to customer satisfaction.
- **Simplicity:** Less waste and increased process agility are examples of simplicity that yield superior outcomes.

9. Which agile matrices are the most important ones?

Several essential agile matrices are as follows:

- **Velocity:** This aids in monitoring the project's velocity so that the group is aware of its advancement and additional metrics.
- **Awareness of issue removal:** When team members work effectively and resolve issues concurrently, the quality of the final product is enhanced.
- **Work role allocation:** Assigning roles and categories of work to the teams aids in precisely allocating task priorities.
- **Sprint burndown:** The group is able to keep tabs on how well the tasks and the sprint are being completed.
- **Diagram of cumulative flow:** It illustrates the workflow, with the team members' work displayed on the y-axis and time indicated on the x-axis.
- **Provide business value:** This emphasizes the effectiveness of the Agile team.
- **Time coverage:** The ratio of a code's line count to the number of related lines of code is used to determine how much time is required for each iteration's development and testing.
- **Time needed to resolve defects:** It determines how long it will take to address problems and faults.

10. What difficulties does the team encounter while using the Agile process?

Among the challenges the team encountered using the Agile process were:

- **Adapting specifications:** modifications to the features, specs, and requirements of the product.
- **Slow feedback loop:** There may occasionally be a delay in feedback from the tester to the developer.
- **Ignoring crucial exams:** Postponing some exams due to time constraints.
- **Inadequate test coverage:** The testers occasionally overlook crucial test cases.

- **Late issue detection:** If you attempt to correct a defect later on, it will be more difficult.
- **Performance bottlenecks:** Problems with the product's performance.
- **Frequent code breakage:** Several tweaks and rewrites may cause the code to break during or after the build.

Conclusion

It is important to note that it is not enough to be aware of all the ceremonies involved in the application of Agile; rather, it is important to be aware of the mindset involved in its application. It has become essential for companies to look for employees who can easily integrate Scrum, Kanban, and Lean into their workflow in order to be successful in project delivery. Therefore, it would be important to prove your ability to deal with changes and to promote teamwork in any technical or management interview.

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