AGILE PRACTICE QUESTIONS

This section consists of Agile specific questions. We are assessing the Agile maturity from the following angles: build management, infrastructure, deployment, quality management, requirement management, culture and organization. The questions should not be serving as guidelines of how to be Agile. Rather they give us some tips of some of the things we can do in the journey of becoming Agile. Implementing the practices is by no means the end goal. Satisfying our customers through the Agile practices definitely is.

1. How often do developers commit working codes on average?
- ☐ Once every few months
- ☐ Once every month
- ☐ Once every week
- ☐ Once every day
- ☐ Multiple times every day

> We encourage developers to commit working codes as frequently as possible.

2. Which of the following does your system build characterise? (You may select more than one option)
- ☐ Build is triggered by source code updates
- ☐ Build dependencies are stored in version control
- ☐ Build dependencies are managed in continuous integration
- ☐ Failed builds are fixed with high priority
- ☐ Build occurs on main line (e.g. trunk)
- ☐ Build is frequent and consistent

> By 'build', we refer to:
> - Compiling source codes into binaries
> - Packaging binaries
> - Running automated tests
> - Possibly deploying and creating documentations
>
> The options in this question are all some good practices that we encourage.

3. Which of the following build automation tools do you use? (You may select more than one option)
- ☐ Make
- ☐ Apache Ant
- ☐ Maven
- ☐ Rake
- ☐ Customized build scripts
- ☐ Do not use any automation tool
- ☐ If others, please specify:

> The bottom line is that we should try to automate the build process. The tools that we use for automation is less of a concern.

4. What is the duration of you build process?
- ☐ Lesser than or equal to 12 min
- ☐ More than 12 min

(should not exceed 12 min. Beyond which would be difficult to achieve continuous integration)

We encourage shorter duration of automated build so that we can see results more real-time.

5. Are build results (e.g. pass/fail results, build logs, artifacts, etc.) collected and properly versioned in some build portal/dashboard?
- ☐ Yes
- ☐ No
- ☐ Not Applicable

We should be able to easily track and view the build history with all necessary information to narrow down to cause of failure.

6. How long is your release cycle?
- ☐ Less than 1 month
- ☐ 1 to 3 months
- ☐ 4 to 6 months
- ☐ 6 to 12 months
- ☐ More than a year

We encourage releases as frequent as the business finds appropriate.

7. In deploying the system, do you do the following activities? (You may select more than one option)
- ☐ Push button process used for deployment in all environments
- ☐ Deployment steps are documented
- ☐ Deployment steps run regularly as part of build
- ☐ Manual deployment

We encourage automated deploying process with the least human intervention.

8. Do you have automated tests to validate deployment?
- ☐ Yes
- ☐ No

We should validate the deployment process in an automated way.

9. Are deployment results (e.g. pass/fail, logs, artifacts, etc.) collected and published?
- ☐ Yes
- ☐ No
- ☐ Not Applicable

We should be able to easily track and view the deployment history with all necessary information to narrow down to cause of failure.

10. Are the following parts of your definition of done (DoD)?
- ☐ Deployment automation
- ☐ Deployment to production

We should keep the two options of this question as a DoD of every user requirement.

11. What software development practices is your team capable of?
- ☐ (You may select more than one option)
- ☐ Pair programming
- ☐ Test driven development
- ☐ Behaviour driven development
- ☐ Acceptance driven development
- ☐ Frequent refactoring
- ☐ Others, please specify:

The options in this question are some known good engineering practices that can help improve efficiency and quality. They should be encouraged.

12. Who owns quality in your organization?
- ☐ QA testers
- ☐ Everyone in the development team

Everyone is responsible for the quality of the software that the team is developing.

13. Are all your tests automated?
- ☐ Fully automated
- ☐ Mostly automated
- ☐ Somewhat automated
- ☐ Tests are run manually
- ☐ Not Applicable

We encourage full automation of tests; however we do acknowledge that some tests may not be able to automated, for example acceptance tests. Ideally we wish to see companies pick at least 'Mostly automated'.

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