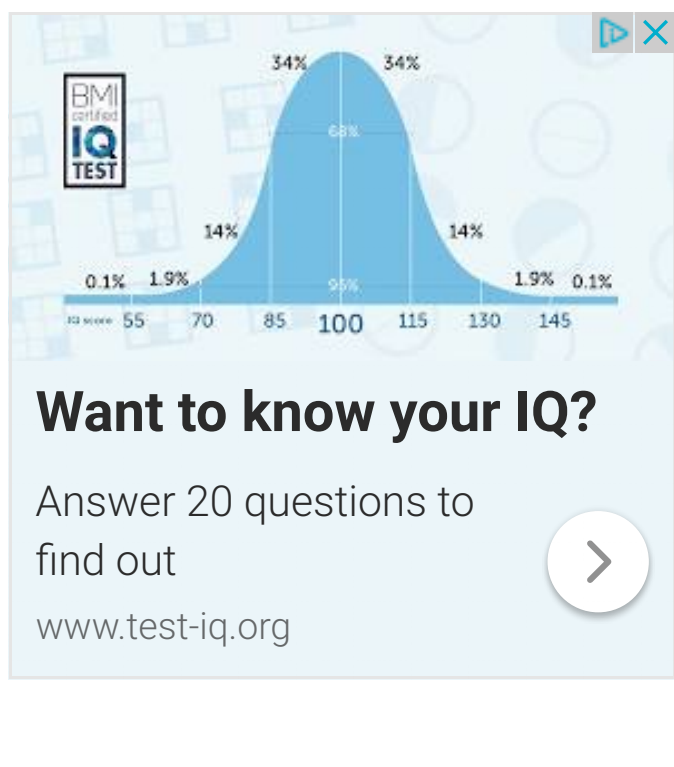


# Automation Testing Framework for Agile/Scrum Methodology



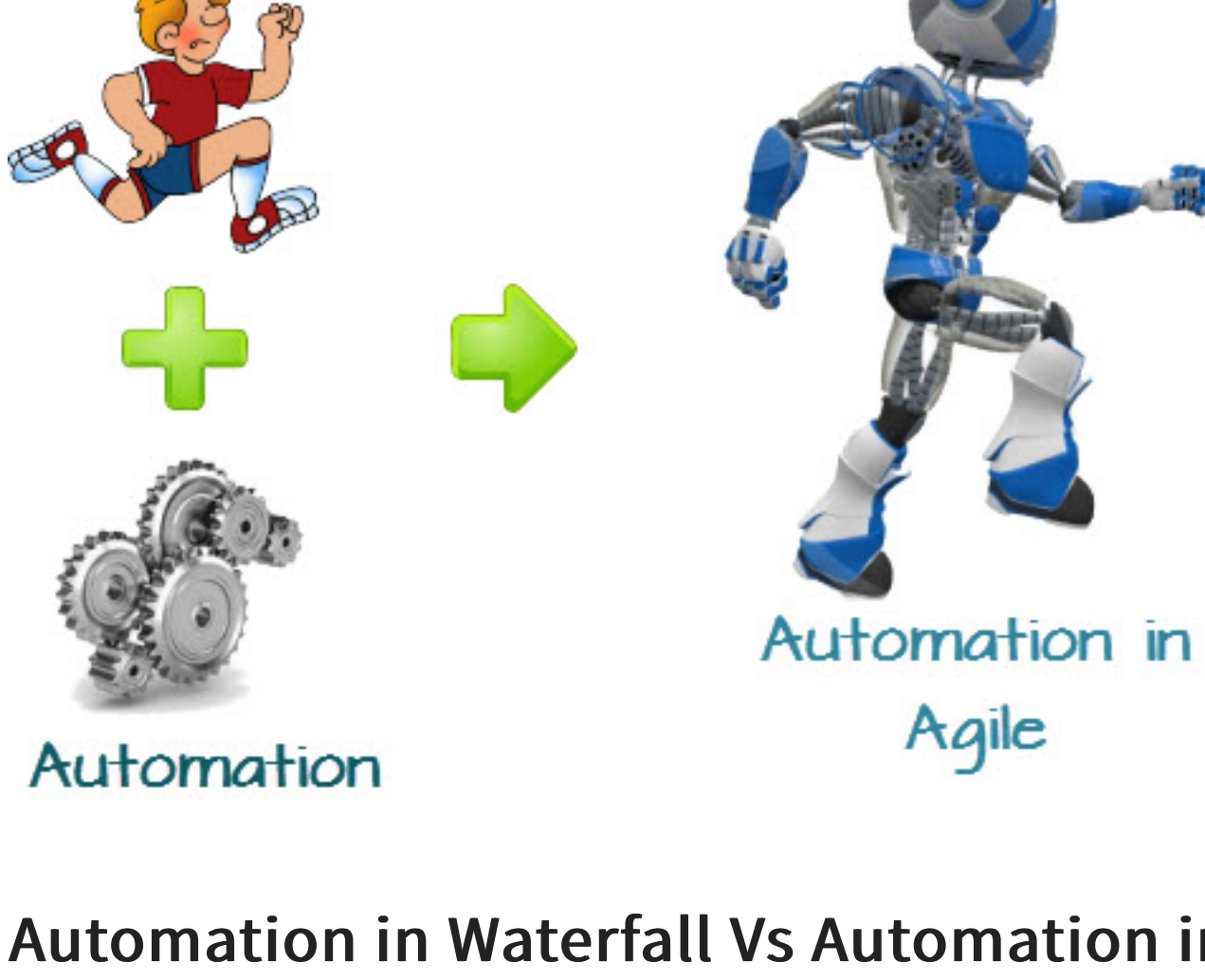
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and collaboration between teams.

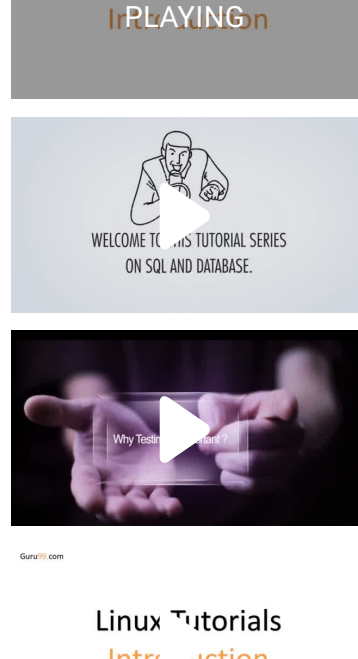
In the last few years, ever since the agile methodology came on board with its founders shouting and willing to do away with the mundane and laborious realities of the traditional waterfall model, the impact of the same can be also felt when it comes to [Automation Testing](#).



## Automation in Waterfall Vs Automation in Agile

In the realm of the traditional process of software testing life cycle, Automation Testing is normally feasible when the application is **stable, steady and the requirement** is involving with a **real considerable amount of time** and in most cases involving a set of very skillful automation expert resources as well as a considerable amount of set-up costs. The basic purpose of Automation Testing is to reduce costs over a long time and to ensure no new defects have been introduced as a result of existing test cases.

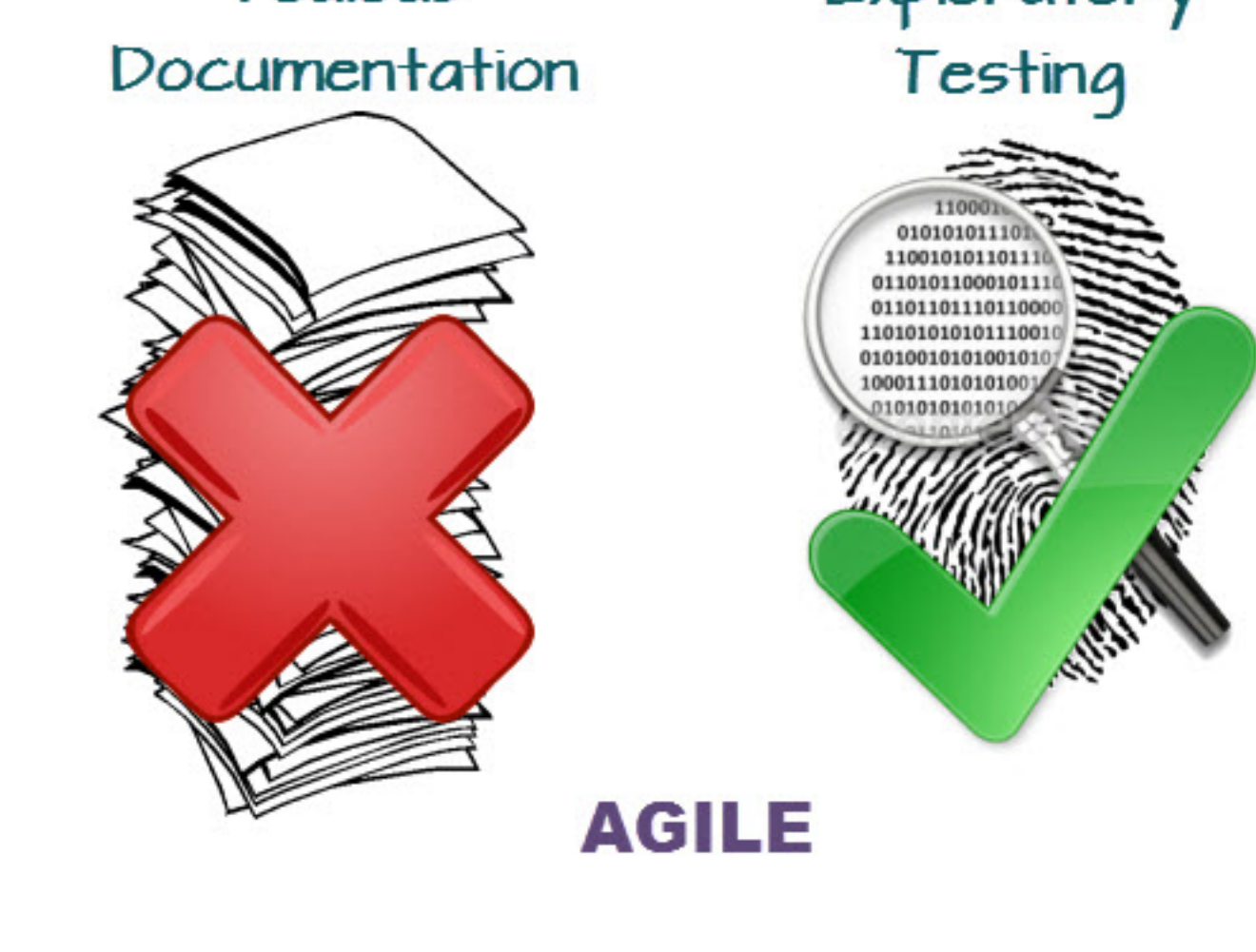
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**Automation testing by the very nature of the technology is not exploratory** in nature since the main role of Automation Testing is saving time and reducing costs. Automation Testing is not meant to come up with new and innovative defects. Automation Testing aims at mostly confirmation of the already existing.

## How to automate in Agile Methodology

Now by its very definition agile methodology talks about doing away with laborious and tedious documentation so that new and innovative ideas could be implemented and people could interact freely with each other so that more of these innovative and explorative ideas could be implemented.



Thus we could see a contradiction between the basic fundamental philosophies of agile methodologies and Automation Testing.

## Fundamental Points for Agile Test Automation

So we need to consider certain fundamental points here when it comes to evaluating the use of agile methodologies with respect to the Automation Testing methods and techniques. Thus we need to consider some fundamental points like time taken for design and coding, validation of the designed scripts with the existing test data and the adoption of the same for testing (whether the tests are of functional or regression purposes) So the real fact of all these events is that in order to perform all these facts, we need to ensure that a considerable amount of time is required for these tasks and in an agile environment where an average sprint takes an average 1-2 weeks to complete and thus it is obviously too difficult to contemplate affording so much time for automating scripts in such a way.

Another significant factor remains here that the type of changes in requirements which come into picture when the agile methodology is at play. The agile methodology by its own very definition is a sort of technique which is very helpful for responding to quick customer induced change requirements and which thus lends itself well to frequent changes during the overall development of the application.

In contrast, automation testing is very useful when it comes to the more stable and less frequent types of requirements. Thus by definition automation testing does not lend itself well to various types of frequent changes in requirements which comes alongside the adoption of any agile methodologies.

## Agile Automation Tools

The selection of relevant automation tool is also a potentially very important factor when it comes to the adoption of automation testing within the scope of an overall agile methodology. Licensed automation tools, for example, impose strict security access criterion to different types and levels of users when it comes accessing various important resources belonging to that particular testing automation framework.



In contrast agile methodology emphasizes upon mostly open collaboration and open-ended interaction between team members and thus restrictive policies which directly affects how the users would have a negative impact on the overall cohesion within the team and thus may be leading into results which are neither very helpful nor very conducive to the overall success of the project.



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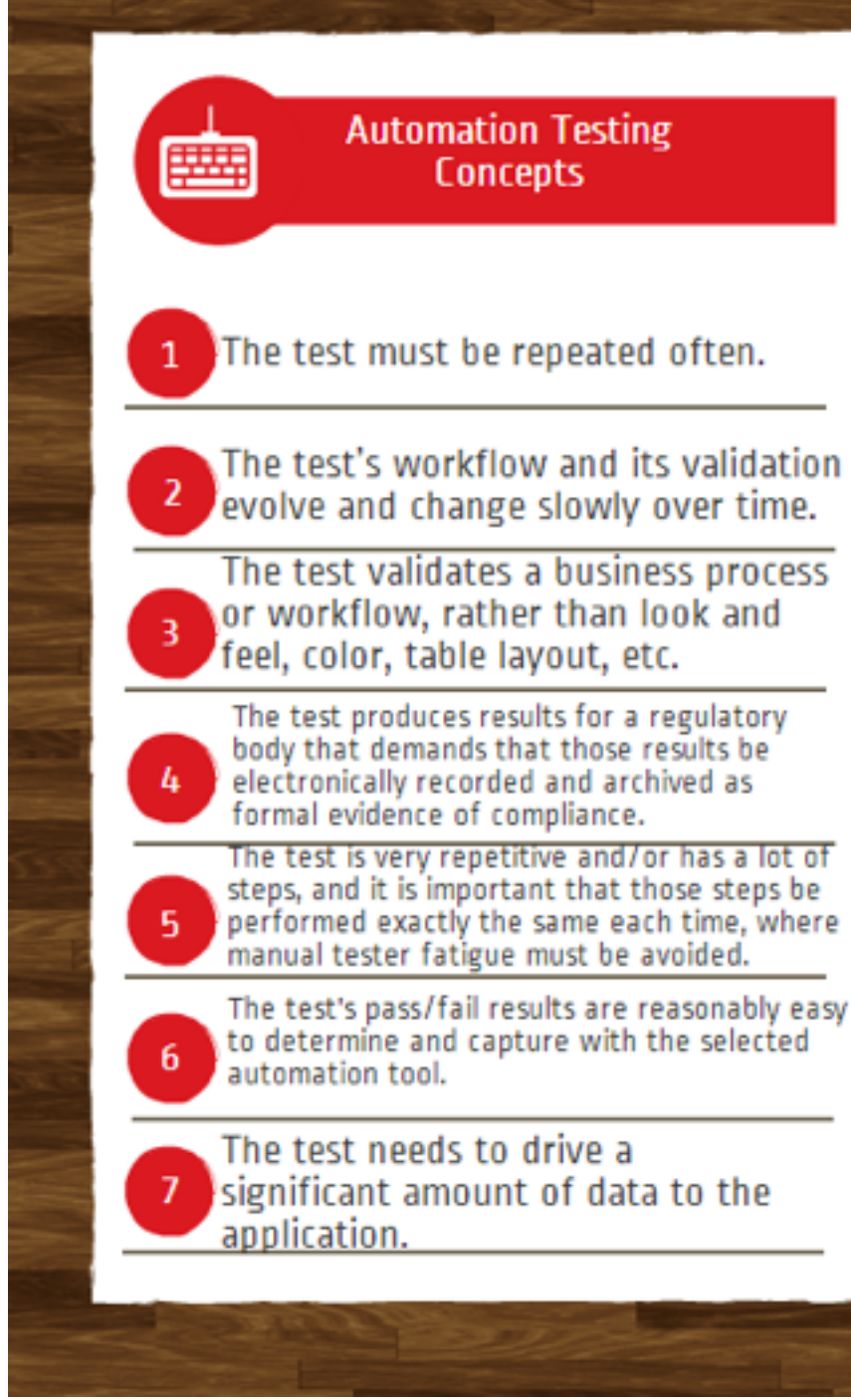
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Therefore the primary importance of the process should be to ensure that in order to obtain the quality delivery of automation test scripts within a stipulated time as afforded by agile methodology; we need to choose our prospective test cases which would be automated in a more nuanced way such that these automated test scripts lend themselves well for future re-use as well as ensuring that they can be prepared within the proper duration of the allotted time (as required during the agile methodology process).

After consideration of all the above factors we thus can realize that even while adopting agile methodologies, we need to bring into picture the types of tests like for example regression tests (since even during agile testing there is a considerable amount of testing work which is required to put into the job of agile methodologies for ensuring better quality of the overall product)

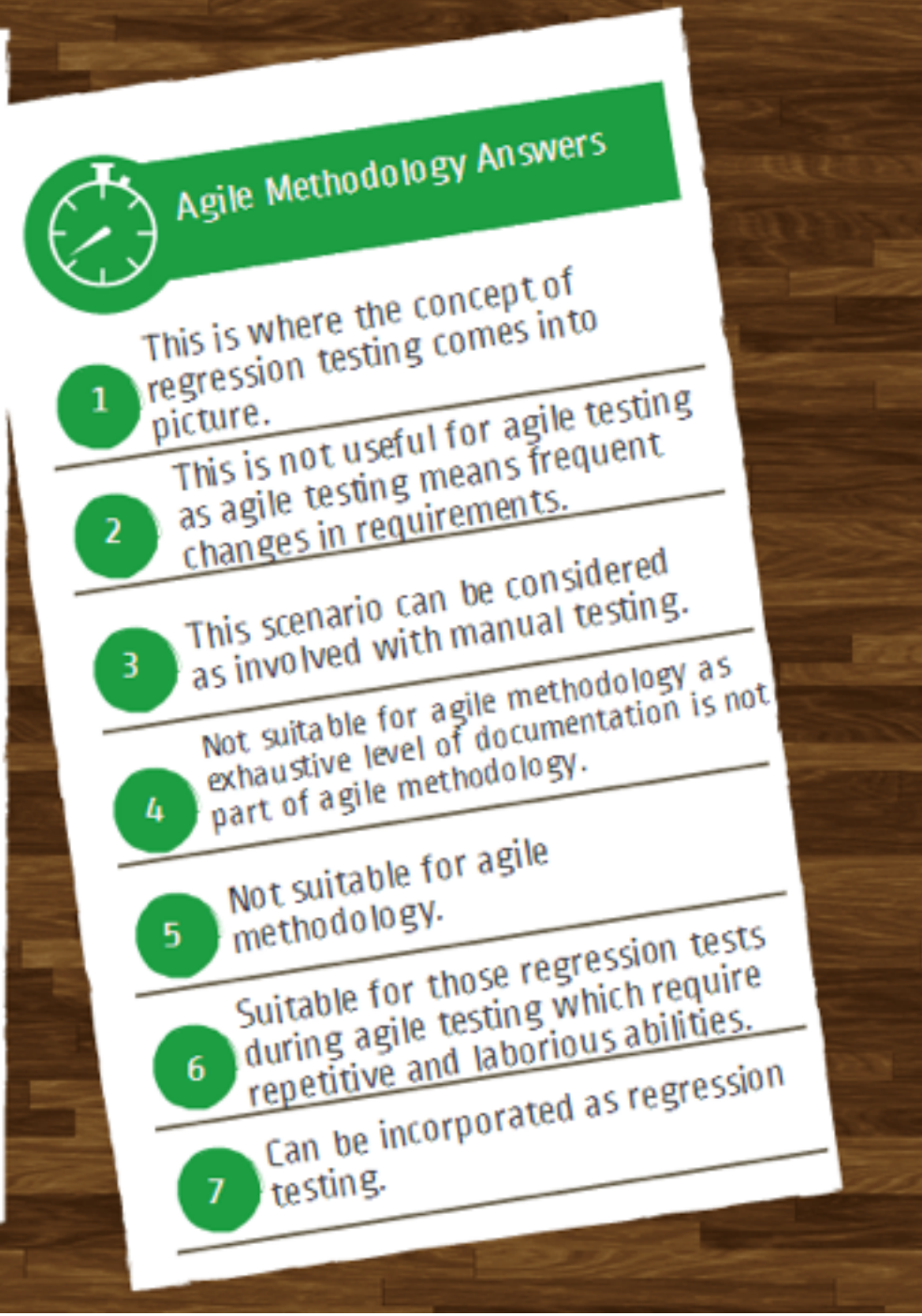
Now let us look at the most basic situations whereby automation testing can be used and how we can adopt the same towards the realm of agile testing.

## Automation Testing Concepts when Applied to Agile



**Automation Testing Concepts**

- The test must be repeated often.
- The test's workflow and its validation evolve and change slowly over time.
- The test validates a business process or workflow, rather than look and feel, color, table layout, etc.
- The test produces results for a regulatory body that demands that those results be electronically recorded and archived as formal evidence of compliance.
- The test is very repetitive and/or has a lot of steps, and it is important that those steps be performed exactly the same each time, where manual tester fatigue must be avoided.
- The test's pass/fail results are reasonably easy to determine and capture with the selected automation tool.
- The test needs to drive a significant amount of data to the application.



**Agile Methodology Answers**

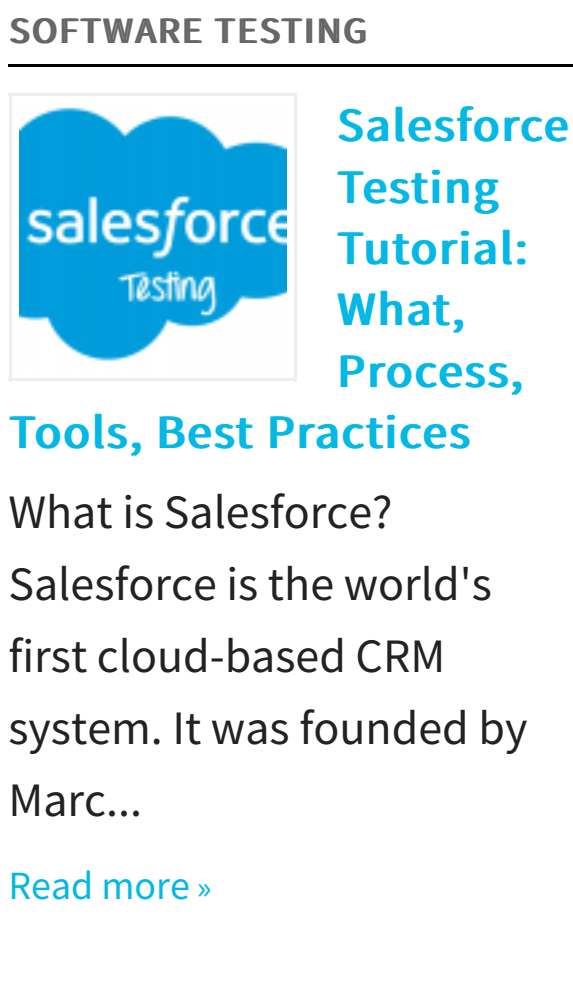
- This is where the concept of regression testing comes into picture.
- This is not useful for agile testing as agile testing means frequent changes in requirements.
- This scenario can be considered as involved with manual testing.
- Not suitable for agile methodology as exhaustive level of documentation is not part of agile methodology.
- Not suitable for agile methodology.
- Suitable for those regression tests during agile testing which require repetitive and laborious abilities.
- Can be incorporated as regression testing.

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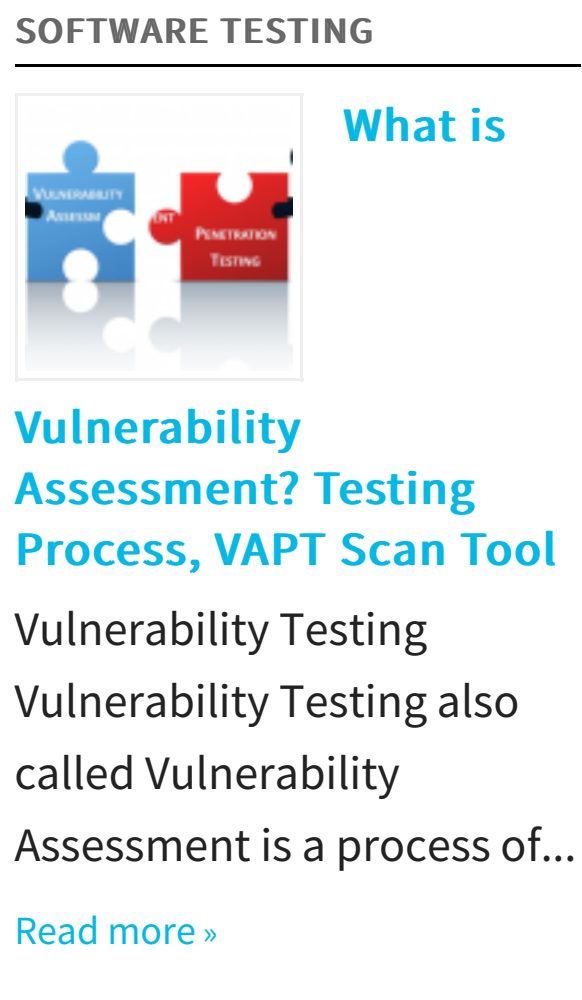


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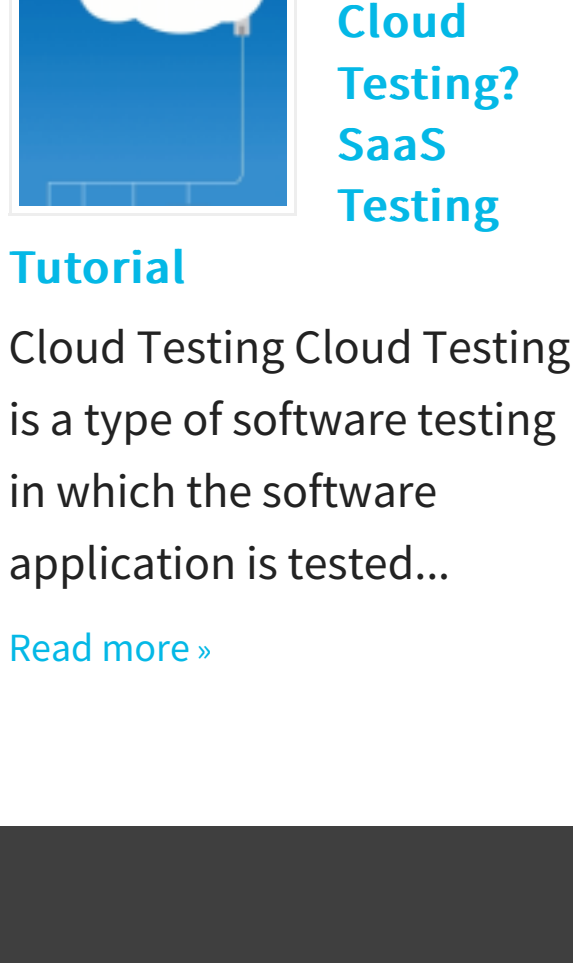
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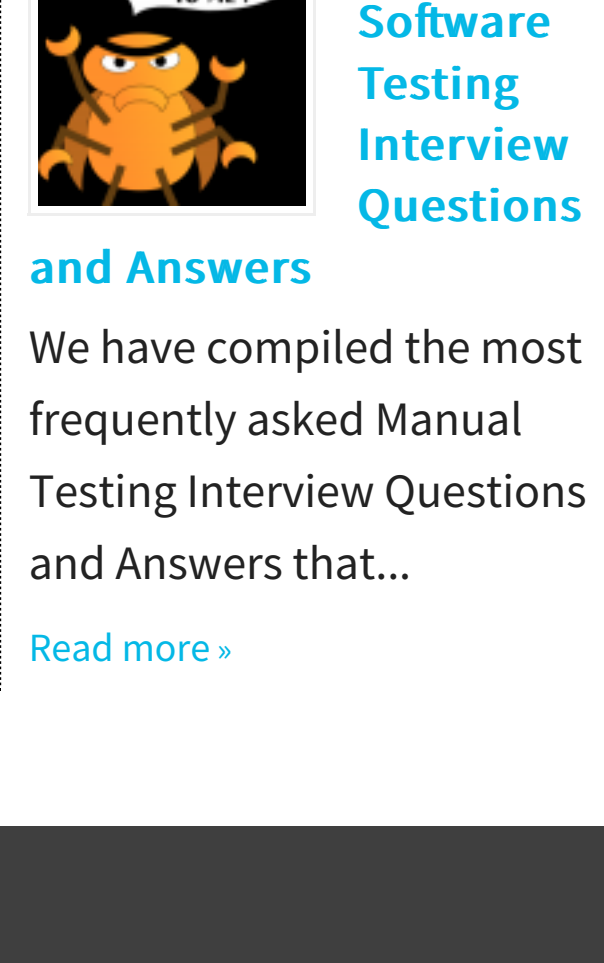


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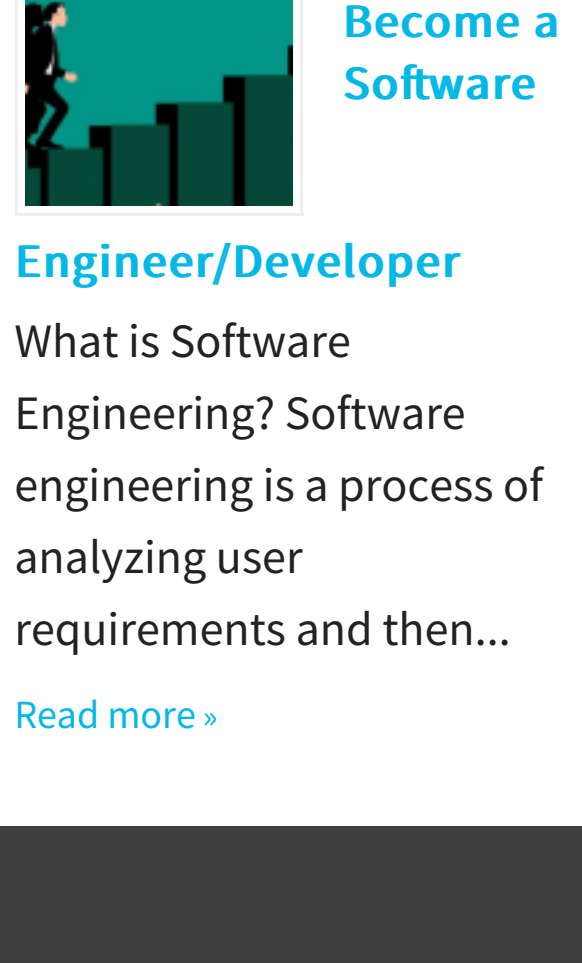
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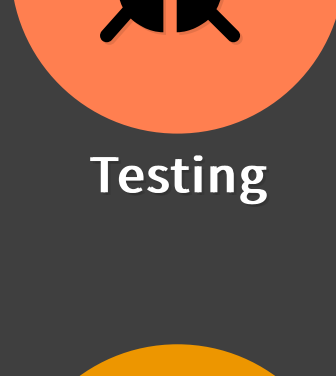
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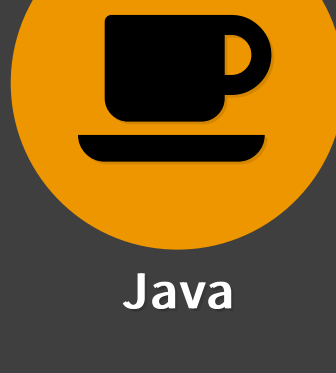
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