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Stability Testing

Testing ~

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Stability Testing is a type of non functional software testing performed to measure efficiency and ability of a software application to continuously function over a long period of time. The purpose of Stability testing is checking if the software application crashes or fails over normal use at any point of time by exercising its full range of use.

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operational capacity, often to a breakpoint. There is greater significance is on error handling, software reliability, robustness and scalability of a product under heavy load rather than checking the system behavior under normal circumstances. Stability testing assesses stability problems. This testing is primarily intended to stress the

Stability Testing is done to check the efficiency of a developed product beyond normal

software component to the maximum. It is a Non-Functional Technique.



Linux Tutorials Introduction In this tutorial, you will learn-• What is Stability Testing?



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• Test Reports for Stability Testing

• Why do Stability Testing

• How to do Stability Testing

- Problems if a System under test has not undergone

applications that have to run for months without restarting, a number of problems are

• Test Case for Stability Testing for CPU Performance

• Problems if a System under test has not undergone Stability Test

- **Stability Test**
- For an application under test where a large number of users are introduced and

likely to occur:

situations.

- the system encounters functionality problems
- the system slows down

• the system crashes altogether

the system shows wired behavior

The possible error can be faced,

system can support the anticipated load.

Why do Stability Testing

Hence, Stability Testing allows you to check, • Provide confidence in the stability of your system under test.

of a software product under test before it is released or the areas of more improvement

This kind of testing helps users to understand the ways the system will work in real-life

In Software Engineering, Stability Testing typically involves exercising the system with

heavy users (virtual) and measuring the performance parameters to verify whether the

• Test system stability under stress. It plays an important role in product development as it is used to determine the limitations

before the product goes live or at Production.

• Monitor the effectiveness of your system.

• Ensure that your system can handle large programs.

- A very common example of Stability testing technique is Online Shopping Portals: Stability testing will check how the website will behave when -
- Behavior of system Responsiveness of the system and many more come under Stability Testing
- A **CPU** test is a popular form of stability test under Performance Testing technique. This test checks for processor stability and also monitors its performance as the processor's
- workload is increased.

Another example

• To determine the scope and objective of the testing, we must ensure that the Application Server(s) do not crash during the Load Test executions.

• To determine the Business issues, verify the system performance and load as per end

• To assign the different Responsibilities and Roles like -Creating Test plan, Test Case

• To ensure the Test deliverables within the specified time

• To verify the Upper limit of the system.

design, Test case review, Test execution, etc.

user perspective.

requirements.

Test Case for Stability Testing for CPU Performance

Determine the <u>Defect</u> tracking and reporting and there proper mapping with the

- How the system behaves under heavy load. • Its response and behavior under heavy load.

Test Reports for Stability Testing

Examples of statistics collected under test are:

defined for the system.

to a database server.

transaction load on the system.

Last active version. en-standard.eu

particular workload.

accordingly.

Apache JMeter

NeoLoad

CloudTest

Loadstorm

Loadster

OpenSTA

Performance Tester

Httperf

• **CPU:** CPU percentage utilization spent during a test.

hits. • Throughput: The amount of throughput on the Web server during the test which is measured in bytes. Throughput means the amount of data that the users received from

benefits to determine the number of load users generate, with respect to a number of

- **Memory:** Memory usage during a test. • **Disk:** utilization of disk spaces spent during a test. By the time, you can now easily identify that -Stability Testing comes under Performance Testing –a technique that is performed to
- Performance Testing has many types and stability testing is one of them. • Stress testing: It is a testing type which checks the robustness of the system beyond the system capacity.

This testing is used to determine how fast a system or sub-system performs under a

Some of the tools for Performance Testing are as – WebLOAD LoadRunner

• Load or Stability testing: (already discussed above)

- environment. This article is contributed by Vaibhav Chitransh
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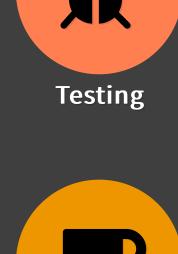
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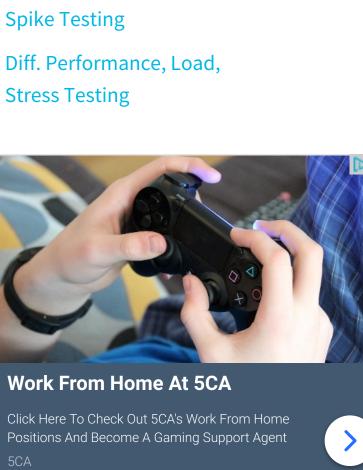
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AGILE TESTING

Scalability Testing is a non

functional testing method





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• High Amount of data entered at peak time • Number of hits at a certain specific time • Page load issue at the same time

- How to do Stability Testing
- To ensure proper Load Testing tools and experience team is present for the same. • To measure the risk and cost involves in the testing. This will determine the cost of each execution in terms of CPU utilization and memory.
- How system crashes or recovers. • A total number of transactions completed per request. • Whether or not transaction response stays steady or increases over time.
- **Transaction Response Times**: The average time is taken to perform transactions during the test. This statistic will evaluate whether the performance of the server is

within the acceptable minimum and maximum transaction performance time periods

server and sent to the application server, which in most of the cases will make a request

This information will evaluate the time taken in processing the request by the web

• Hits Per Second: The number of hits made on the server by users. This statistics

Several statistics are gathered and measured during test executions; these numbers are

analyzed in order to generate a report and to identify possible performance problems.

the server at any given time. This statistic helps to evaluate the amount of load that users generate.

• Transaction per second: These are the total number of completed transactions (both

successful and failed) performed during a test. This statistic helps to check the actual

check some of the quality attributes of Software like stability, reliability, and availability. BS EN 61000-4-10:2017 - immediately download

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• Spike testing: It is used to check the behavior of a system by increasing a load of a system instantly. The objective is to check at which point the system will be having performance issues, or it will pass. • Scalability testing: It is used to check the capabilities of a system. How effective the system will going to behave in growing needs, change in size and change in volume.

• Volume testing: It is a non-functional testing technique where software under test is

subjected to a huge volume of data, and the behavior of a system is checked and verified

- LoadUI WAPT LoadImpact
- Testing Anywhere **Conclusion:**

Stability testing is a non-functional process of testing the behavior of the application by

applying maximum load. It is performed to find out the scalability of the system in a given

Report a Bug

Frontend

Testing

Backend

Testing:

Manual

Testing

Vs.

SOFTWARE TESTING

What's the Difference?

What is Frontend Testing?

Frontend Testing is a type

of testing that checks the

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Tutorial: What is, Concepts, **Generation: What is, How** Manual Testing Manual As a tester, you may think Testing is a type of software

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