Performance testing





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Definition



• Checking the Stability and Response of an Application By using load is known as Performance Testing.

Stability : It says about the load at which product crashes.

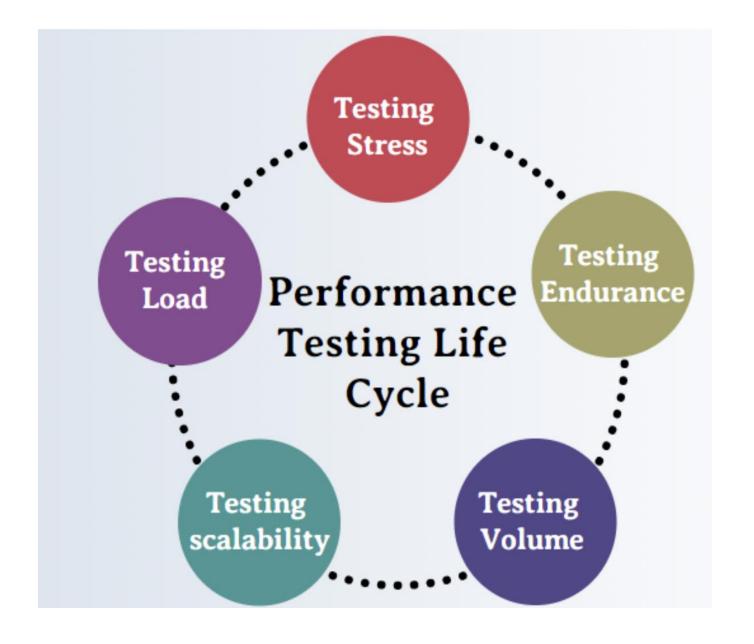
<u>Response</u> : it is define as time taken by request to reach out to the server and get the response to

the source.

<u>Load</u>: Total no of user using the app at same time.



Types of performance testing





Load Testing:



 Checking the Stability and response of an application by applying load less than or equal to expected limited user or designed user.

Example: if app is designed for 1200 users at any moment of time then try to observe the performance of application (ability to sustain) using different range of users between 1-1150 users or max 1200 users.

Note: we should also take care of response time with no of users.

Stress Testing



- Checking the Stability and response of an application by applying load more than the designed users.
- Example: if app is designed for 2000 users at any moment of time then try to observe the performance of application(ability to sustain) using different range of users, >2000.
- Note: we should also note down the response time based on different loads.

Scalability Testing



- Checking the Stability and response of an application by applying load more than the designed users to check where exactly software is crashing.
- This kind of testing gives us clear idea about threshold limit of an application
- Example: we developed our application such a manner it should be accessible by 1000 users at any moment of time but we are checking with higher no of users say 2000, 4000, 5000 etc. Suppose application works with 2000 and 4000 no of users with huge response time but gets crashed with 5000 users then this would be the threshold limit and out intension is to find out that point in scalability testing.

Volume Testing





Checking the Stability and response of an application by transferring huge no of data or huge volume of data.



In Volume testing we test for the Database capacity

Soak Testing/Endurance Testing

- Checking the Stability and response of an application by applying load continuously for longer period of time.
- This kind of testing gives the idea like how long software can work smoothly without any problem.
- Example: some electronics gadgets that pass through this testing phase are laptop, TV, AC etc.

