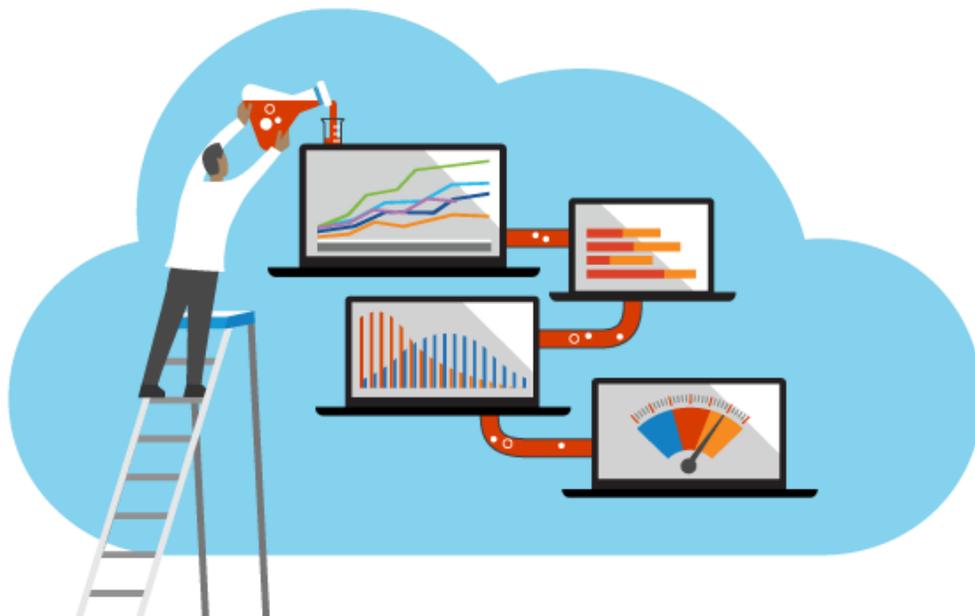


# Find out How to Perform Non-functional Requirement Testing

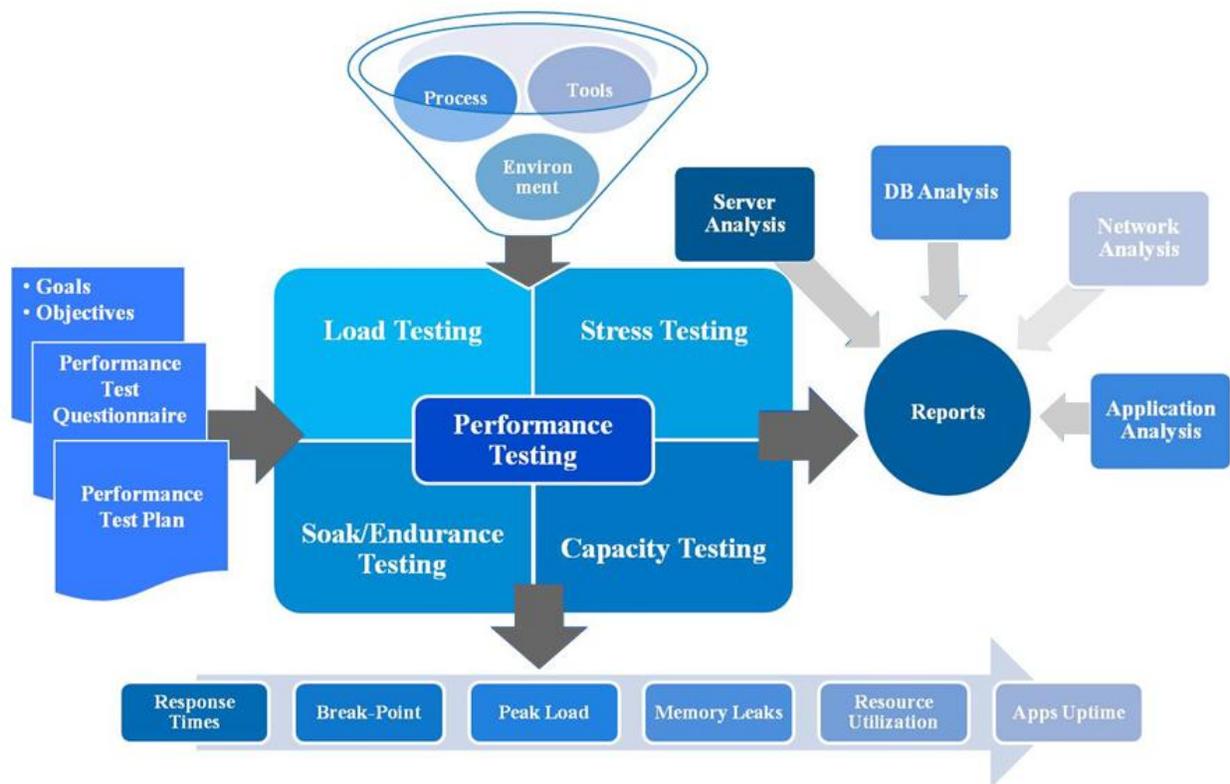
Nonfunctional testing is the method of reviewing the non-functional requirements are acquired correctly for the software. There are various types of non-functional requirements testing. In this article we mention some of them which is most important for us.

1. Performance testing
  - a. load testing
  - b. stress testing
2. Usability Testing
3. Security Testing
4. Portability Testing



1. Performance testing: - it is mainly use for identify bottlenecks and performance issue rather than getting the bugs in software. There are several causes which participate in sinking the performance of software.

- Network delay
- Client side processing
- Databases transaction handling
- Load balancing between server
- Data translation



There are two types of performance testing process

1. Load Testing
2. Stress Testing

1. **Load Testing**:-This is the process of testing the performance of the software by putting the maximum load in term of software accessing and manipulate the hug contribution data. It can be done at all normal and peak load condition. According to this type of testing we measure the maximum capacity of software and its performance at real time. Most of the time this type of testing performed with the help of automated tools, like that load runner, [Apache Jmeter](#), skill performer, visual studio load test and many others. Virtual user are explain in the automated tools and the scripts is executed to identify the load testing for the software. The quantity of users can be increases and decreases regularly based upon the requirements.

2. **Stress Testing**:-This testing type involves the testing of Software behavior under unusual situations. Taking away the sources, utilizing load beyond the specific load limit is Stress testing. The main purpose is to test the Software by implementing the load to the system and getting over the sources used by the Software to identify the breaking point. This testing can be conducted by testing various conditions such as:

- Shutdown or restart of Network ports at random.
- Turning the database on or off.
- Running various methods that consume sources such as CPU, Memory, server etc.

2. **Usability Testing**: This segment includes various concepts and explanations of Functionality testing from Software factor of view. It is a black box technique and is used to recognize any error(s) and upgrades in the Software by monitoring the users via their usage and function. Functionality is the high quality requirement which can be calculated as the result of communications with a computer system. This requirement can be satisfied and the end user will be satisfied if the meant goals are obtained successfully with the use of appropriate resources. In inclusion to different explanations of usability, there are some specifications and quality versions and methods which determine the usability in the form of characteristics and sub attributes such as ISO, IEEE etc.

If you want to read more about this topic then we will share next topic with details in our next article.