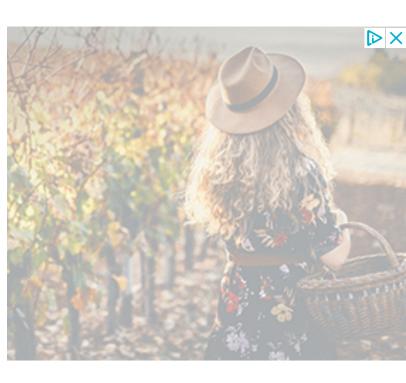
### What is System Testing? Types & Definition with Example



## What is System Testing?

**SYSTEM TESTING** is a level of testing that validates the complete and fully integrated software product. The purpose of a system test is to evaluate the end-to-end system specifications. Usually, the software is only one element of a larger computer-based system. Ultimately, the software is interfaced with other software/hardware systems. System Testing is actually a series of different tests whose sole purpose is to exercise the full computer-based system.

In this tutorial, we will learn

• What do you verify in System Testing?

• System Testing is Blackbox

- Software Testing Hierarchy
- Different Types of System Testing • What Types of System Testing Should Testers Use?
- System Testing is Blackbox

workings of the software from the user's perspective.

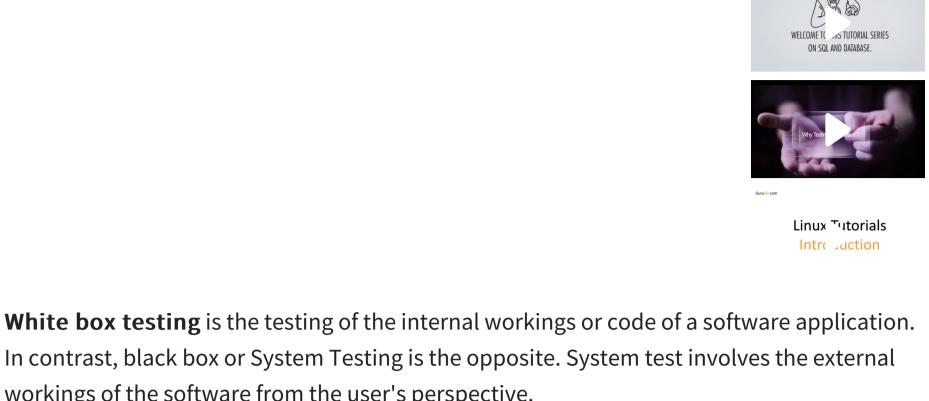
#### Black Box Testing

• White Box Testing

Two Category of Software Testing

- System test falls under the **black box testing** category of software testing.

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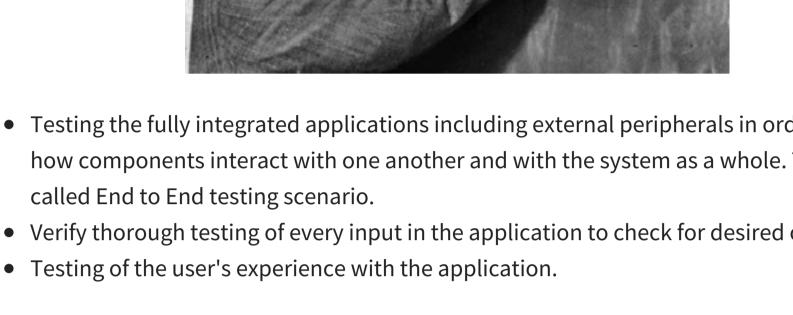
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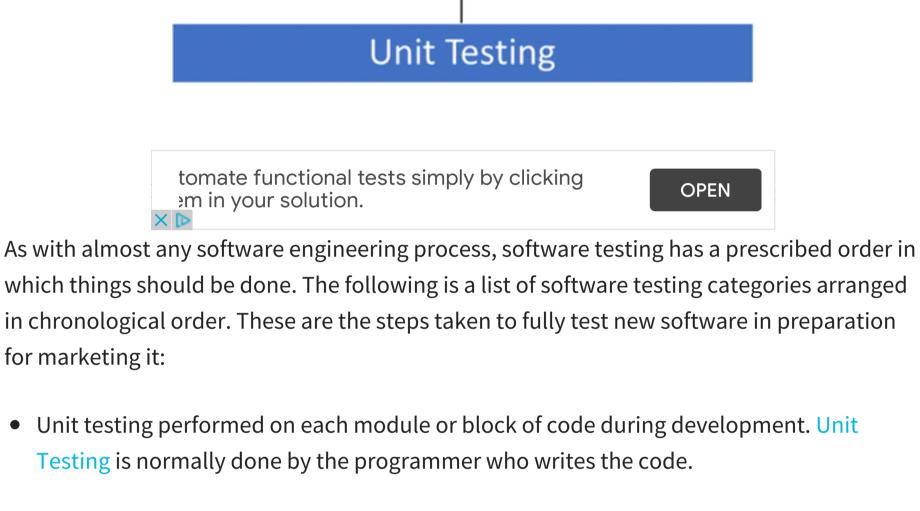
What is System Testing? Software Te...



outside without looking at the actual source code.



**Acceptance Testing System Testing** 



programmers. It is crucial to test each module's effect on the entire program model. • System testing done by a professional testing agent on the completed software product before it is introduced to the market.

• Integration testing done before, during and after integration of a new module into the

of software can contain several modules which are often created by several different

main software package. This involves testing of each individual code module. One piece

1. Usability Testing- mainly focuses on the user's ease to use the application, flexibility in handling controls and ability of the system to meet its objectives

4. Recovery testing - is done to demonstrate a software solution is reliable, trustworthy and can successfully recoup from possible crashes.

5. Migration testing- is done to ensure that the software can be moved from older system

bugs appear from the addition of new software modules over time.

infrastructures to current system infrastructures without any issues.

- 7. Hardware/Software Testing IBM refers to Hardware/Software testing as "HW/SW Testing". This is when the tester focuses his/her attention on the interactions between the hardware and software during system testing.
- Who the tester works for This is a major factor in determining the types of system testing a tester will use. Methods used by large companies are different than that used by medium and small companies.
- testing available. To use some of the software involved, a tester has to learn how to use it. Testing Budget - Money becomes a factor not just for smaller companies and individual software developers but large companies as well.

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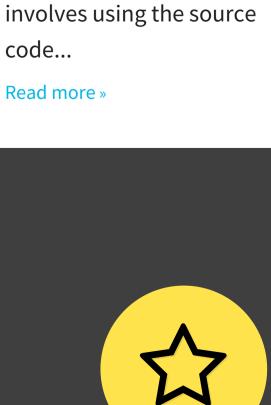
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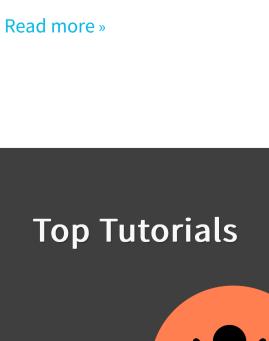


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types click here. Below we have listed types of system testing a large software development

• Time available for testing - Ultimately, all 50 testing types could be used. Time is often what limits us to using only the types that are most relevant for the software project. • Resources available to the tester - Of course some testers will not have the necessary resources to conduct a testing type. For example, if you are a tester working for a large software development firm, you are likely to have expensive automated testing software • Software Tester's Education- There is a certain learning curve for each type of software

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**SOFTWARE TESTING Interface** Testing?





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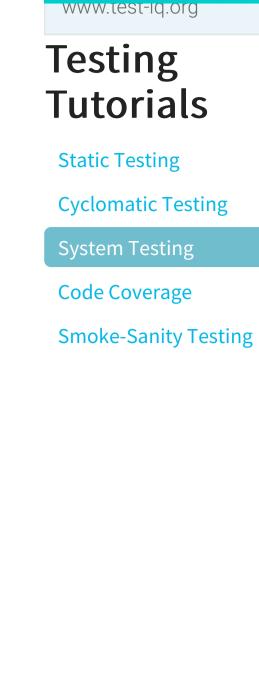


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Code Coverage



# What do you verify in System Testing?

• Testing the fully integrated applications including external peripherals in order to check how components interact with one another and with the system as a whole. This is also called End to End testing scenario. • Verify thorough testing of every input in the application to check for desired outputs.

That is a very basic description of what is involved in system testing. You need to build

detailed test cases and test suites that test each aspect of the application as seen from the

- **Software Testing Hierarchy** 
  - Integration Testing
- for marketing it:

Acceptance testing - beta testing of the product done by the actual end users.

There are more than 50 types of System Testing. For an exhaustive list of software testing

**Different Types of System Testing** 

company would typically use

testing.

not available to others.

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2. Load Testing- is necessary to know that a software solution will perform under real-life loads. 3. Regression Testing- involves testing done to make sure none of the changes made over

the course of the development process have caused new bugs. It also makes sure no old

6. Functional Testing - Also known as functional completeness testing, Functional Testing involves trying to think of any possible missing functions. Testers might make a list of

additional functionalities that a product could have to improve it during functional

What Types of System Testing Should Testers Use? There are over 50 different types of system testing. The specific types used by a tester depend on several variables. Those variables include:

**Cyclomatic Complexity: Score & Analysis** Website **Calculate with Flow Example** What is Cookie Testing? **Graph (Example) Mutation Testing Mutation** Cookie Testing is defined as To understand Cyclomatic Testing is a type of software a Software Testing type that

Complexity, lets first

understand - What is

**Software Metric?** 

Measurement is...

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  - Selenium
    - **SAP**