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130

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Home

Black Box Testing

Black Box Testing is a software testing method in which the functionalities of software applications are tested without having knowledge of internal code structure, implementation details and internal paths. Black Box Testing mainly focuses on input and output of software applications and it is entirely based on software requirements and specifications. It is also known as Behavioral

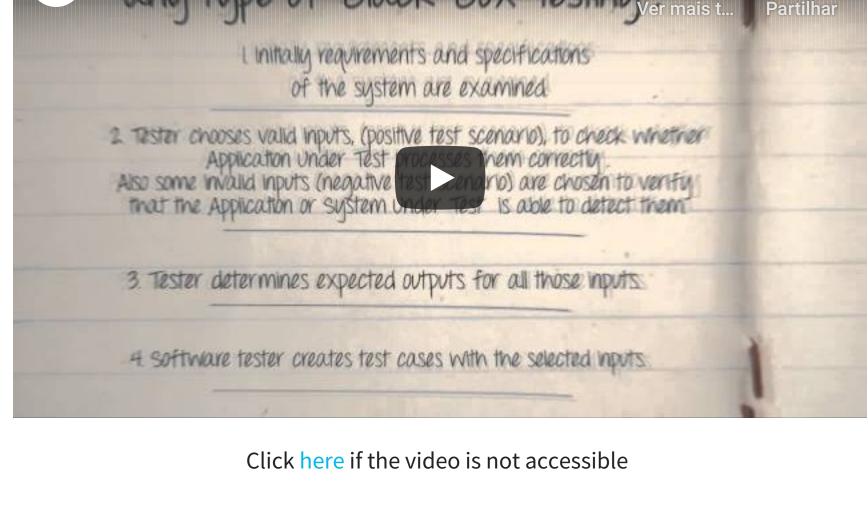
Testing.



own custom application. Under Black Box Testing, you can test these applications by just focusing on the inputs and outputs without knowing their internal code implementation. Consider the following video tutorial-

operating system like Windows, a website like Google, a database like Oracle or even your

The above Black-Box can be any software system you want to test. For Example, an

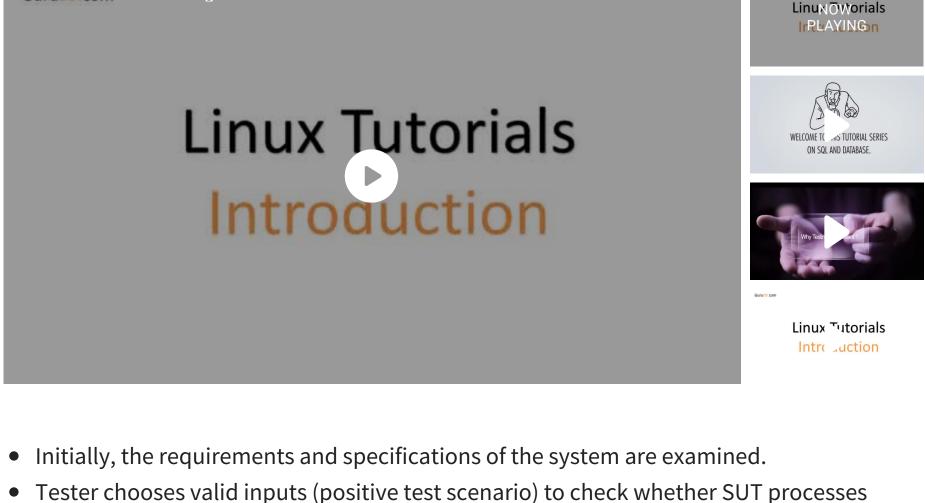


Here are the generic steps followed to carry out any type of Black Box Testing.

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How to do BlackBox Testing



- Tester determines expected outputs for all those inputs.
- Software tester constructs test cases with the selected inputs. • The test cases are executed. Software tester compares the actual outputs with the expected outputs.

them correctly. Also, some invalid inputs (negative test scenario) are chosen to verify

• Defects if any are fixed and re-tested.

requirements of a system; it is done by software testers.

Types of Black Box Testing

usability.

doing.

that the SUT is able to detect them.

- There are many types of Black Box Testing but the following are the prominent ones -
- Non-functional testing This type of black box testing is not related to testing of specific functionality, but non-functional requirements such as performance, scalability,

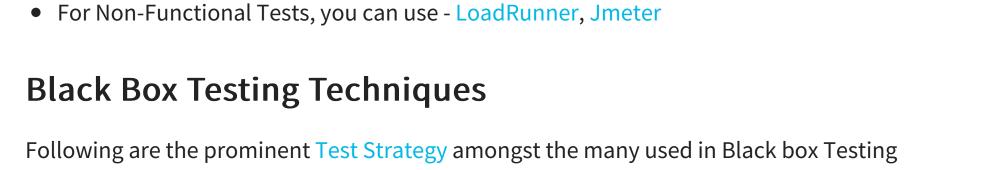
• Functional testing - This black box testing type is related to the functional

• Regression testing - Regression Testing is done after code fixes, upgrades or any other system maintenance to check the new code has not affected the existing code.

Tools used for Black box testing largely depends on the type of black box testing you are

Tools used for Black Box Testing:

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• Equivalence Class Testing: It is used to minimize the number of possible test cases to an optimum level while maintains reasonable test coverage.

There is a unique combination in each column.

requirements.

Black box testing gives abstraction from

code and focuses on testing effort on the

software system behavior.

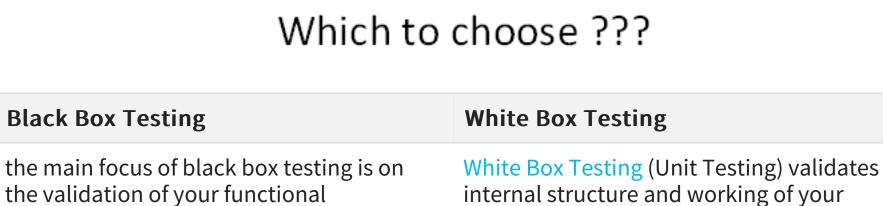
• For Functional/ Regression Tests you can use - QTP, Selenium

boundaries. This technique determines whether a certain range of values are acceptable by the system or not. It is very useful in reducing the number of test cases. It is most suitable for the systems where an input is within certain ranges.

Comparison of Black Box and White Box Testing:

• **Decision Table Testing**: A decision table puts causes and their effects in a matrix.

• Boundary Value Testing: Boundary value testing is focused on the values at



White box testing does not facilitate testing Black box testing facilitates testing communication amongst modules communication amongst modules Black Box Testing and Software Development Life Cycle (SDLC) Black box testing has its own life cycle called Software Testing Life Cycle (STLC) and it is relative to every stage of Software Development Life Cycle of Software Engineering. • **Requirement** - This is the initial stage of SDLC and in this stage, a requirement is

software code

all of them.

To conduct White Box Testing, knowledge

essential. Current day software systems use

of underlying programming language is

a variety of programming languages and

technologies and its not possible to know

• **Design** - In this stage Test cases/scripts are created on the basis of software requirement documents • Test Execution- In this stage Test Cases prepared are executed. Bugs if any are fixed

Test Plan is created which determines possible project risks and their mitigation.

• Test Planning & Analysis - Testing Types applicable to the project are determined. A

gathered. Software testers also take part in this stage.

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and re-tested.

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Soak

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a type of non functional

measure performance of...

testing that is used to

10 Code Coverage **Tools for** C, Java, Python, C++, C#, .Net Code coverage testing is an

important measure that

quantifies the degree to

which the source code...

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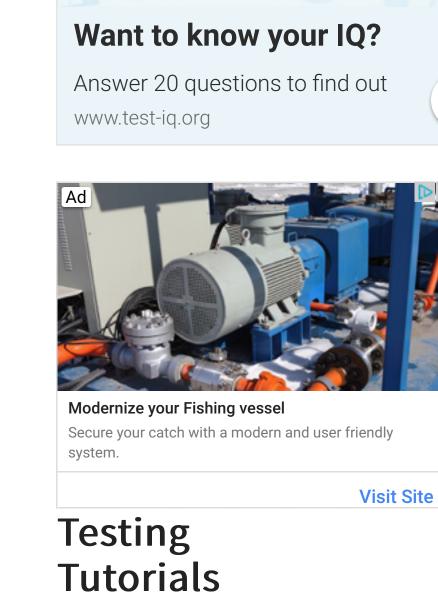
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Test Case vs Test

Software Testing Type Black Box Testing

Scenario

Alpha Beta Testing **Functional Testing**





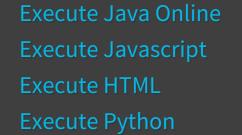






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