**What is Black Box Testing?**

In a black box text, the tester does not hold any information about internal working of a software system. It is a high-level testing that has a focus on the software’s behaviour. In this test, a tester conducts the test from the perspective of an end-user or external party. Black box testing can be applied to all levels of software testing i.e. unit, system, integration and acceptance.

**What is White Box Testing?**

A White-box testing technique involves checking the internal functioning of a software system. The test is based upon covering statements of code, branches and conditions. It is also known as a glass box, clear box or transparent technique because the tester is already aware of the structure/implementation/design of the item they are testing.

**Key Differences**

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| **Black Box Testing** | **White Box Testing** |
| * Testing is done without having any knowledge of internal structure of application or program | * Testing is done with prior knowledge of internal structure of the application or program |
| * Does not require prior programming or implementation knowledge | * Requires the tester to have prior programming or implementation knowledge |
| * It is mostly done by software testers | * It is mostly done by software developers |
| * The main goal is to test the behaviour of the software or application | * Main goal is to test the internal operations and logic of the software system |
| * It is focused on end-user and external perspective. Hence, it can be referred as external or outer testing | * Focused on conditions, code structure, branches and paths. Thus, it is referred as internal or inner software testing |
| * Provides low granularity reports | * Provides high granularity reports |
| * Not very time-consuming | * It requires more time |
| * It is a functional test of the software application | * It is a structural test of the application |
| * Black box testing can be started on the basis of the requirement specification document | * White box testing can be started after a detail design document |
| * It can be applied to higher levels of software testing | * It is generally applied to lower levels of software testing |
| * Black box is not suitable for algorithm testing | * Whitebox is considered suitable for algorithm testing |
| * It can be carried out with trial and error methods | * It can better test data domains and inner boundaries |
| * Types of Black Box testing include:   + Functional testing   + Non-functional testing   + Regression testing | * Types of White Box testing include:   + Path Testing   + Condition Testing   + Loop Testing |

For detailed testing of your software application, get in touch with Aardwolf Security.