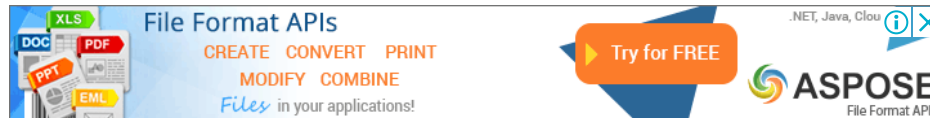




White box Testing

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What is White Box Testing?

White box testing is a testing technique, that examines the program structure and derives test data from the program logic/code. The other names of glass box testing are clear box testing, open box testing, logic driven testing or path driven testing or structural testing.

White Box Testing Techniques:

Statement Coverage - This technique is aimed at exercising all programming statements with minimal tests.

Branch Coverage - This technique is running a series of tests to ensure that all branches are tested at least once.

Path Coverage - This technique corresponds to testing all possible paths which means that each statement and branch is covered.

Calculating Structural Testing Effectiveness:

Statement Testing = (Number of Statements Exercised / Total Number of Statements) × 100 %

Branch Testing = (Number of decisions outcomes tested / Total Number of decision Outcomes) × 100 %

Path Coverage = (Number paths exercised / Total Number of paths in the program) x 100 %

Advantages of White Box Testing:

Forces test developer to reason carefully about implementation.

Reveals errors in "hidden" code.

Spots the Dead Code or other issues with respect to best programming practices.

Disadvantages of White Box Testing:

Expensive as one has to spend both time and money to perform white box testing.

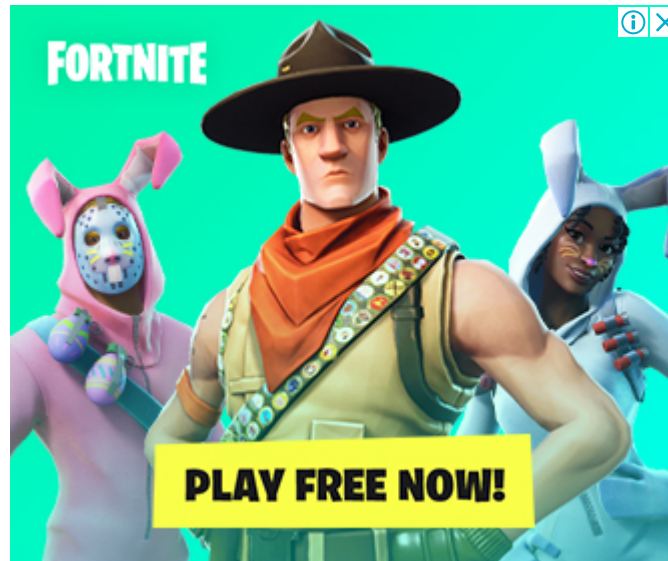
Every possibility that few lines of code are missed accidentally.

In-depth knowledge about the programming language is necessary to perform white box testing.

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