



VERIFICATION, VALIDATION, & ASSERTIONS

WHAT TO EXPECT



- 1 Verification & Validation
- 2 Assertions & Checkpoints
- 3 Sample Testcase
- 4 Assignment

Several terms associated with Testing



PASS
FAIL



Validation

Usually related to design,
specification & architecture

Verification

Usually on the actual product

Always involves code execution

Uses method to test functionality hence functional
testing & also non functional such as performance

Does not involve code execution

Includes check for design documents, code by
visual scan & conformance to specification

Assertion

Checking if the test behaves as expected or fails is the simple definition

These are checkpoints in Automated Testing determining if the test passed or not

Checkpoint

Usually used in conjunction with verification

Checks for current value against the expected value

What is a Testcase ?

A test case is a detailed set of conditions or variables under which a tester will determine whether a software application, system, or feature functions as intended.

It outlines the steps to be taken, the inputs to be provided, and the expected outcomes to verify the correctness of a particular aspect of the software.

Test cases serve as a guide for testers to systematically conduct testing activities and ensure that the software meets specified requirements.

They are a fundamental component of the testing process, providing a structured approach to uncovering defects and ensuring the overall quality of the software.

Effective Testcases

- Simple to read & understand
- Needs to outline all the steps required to be performed as part of testing
- Should inform the tester on pre-requisites , environment & test data
- A good testcase must always trace back to the requirements
- Should be parameterizable (repeatable) for several data
- Identify priority & severity
- Mention expected output at each step & for the overall test.

Sample Testcase Template

Testcase Id :	Created Date :	Version :	Estimated Time :	Priority :
Requirement ID :	Environment:	Author:	Tags:	Business Severity
Description :				
Step No	Step Description	Step Data	Step Expected Result	Comments

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See you in Next Video

