

Final Agent Answer:

Agent stopped due to iteration limit or time limit.

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STLC (Software Testing Life Cycle)

What is Software Testing Life Cycle (STLC)?

STLC Phases

What is Entry and Exit Criteria in STLC?

Video on STLC in Software Testing

Requirement Phase Testing

Test Planning in STLC

Test Case Development Phase

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Test Environment Setup

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Test Cycle Closure

STLC Phases along with Entry and Exit Criteria

Software Testing Life Cycle (STLC) is a sequence of specific activities conducted during the testing process to ensure software quality goals are met. STLC involves both verification and validation activities. Contrary to popular belief, Software Testing is not just a single/isolate activity, i.e. testing. It consists of a series of activities carried out methodologically to help certify your software product. STLC stands for Software Testing Life Cycle.

There are following six major phases in every Software Testing Life Cycle Model (STLC Model):

Each of these stages has a definite Entry and Exit criteria, Activities & Deliverables associated with it.

You have Entry and Exit Criteria for all levels in the Software Testing Life Cycle (STLC)

In an Ideal world, you will not enter the next stage until the exit criteria for the

previous stage is met. But practically this is not always possible. So for this tutorial,

we will focus on activities and deliverables for the different stages in STLC life cycle.

Lets look into them in detail.

Requirement Phase Testing also known as Requirement Analysis in which test team studies

the requirements from a testing point of view to identify testable requirements and the QA

team may interact with various stakeholders to understand requirements in detail.

Requirements could be either functional or non-functional. Automation feasibility for the

testing project is also done in this stage.

Activities in Requirement Phase Testing

Deliverables of Requirement Phase Testing

Test Planning in STLC is a phase in which a Senior QA manager determines the test plan

strategy along with efforts and cost estimates for the project. Moreover, the resources,

test environment, test limitations and the testing schedule are also determined. The Test

Plan gets prepared and finalized in the same phase.

Test Planning Activities

Deliverables of Test Planning

The Test Case Development Phase involves the creation, verification and rework of test

cases & test scripts after the test plan is ready. Initially, the Test data is identified

then created and reviewed and then reworked based on the preconditions. Then the QA team

starts the development process of test cases for individual units.

Test Case Development Activities

Deliverables of Test Case Development

Test Environment Setup decides the software and hardware conditions under which a work

product is tested. It is one of the critical aspects of the testing process and can be

done in parallel with the Test Case Development Phase. Test team may not be involved in

this activity if the development team provides the test environment. The test team is required to do a readiness check (smoke testing) of the given environment.

Test Environment Setup Activities

Deliverables of Test Environment Setup

Test Execution Phase is carried out by the testers in which testing of the software build is done based on test plans and test cases prepared. The process consists of test script execution, test script maintenance and bug reporting. If bugs are reported then it is reverted back to development team for correction and retesting will be performed.

Test Execution Activities

Deliverables of Test Execution

Test Cycle Closure phase is completion of test execution which involves several activities like test completion reporting, collection of test completion matrices and test results.

Testing team members meet, discuss and analyze testing artifacts to identify strategies that have to be implemented in future, taking lessons from current test cycle. The idea is to remove process bottlenecks for future test cycles.

Test Cycle Cl

...[truncated]