

# **Topic: 7 Steps of STLC**

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## Software Testing Life Cycle (STLC)



# Introduction

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- STLC (Software Testing Life Cycle) is a process used to test software and ensure that quality standards are met.
- It is a set of activities performed during the testing phase of software development.
- STLC has seven phases such as: Requirements Analysis, Test Planning, Test Case Development, Test Environment Setup, Test Execution, Defect Tracking and Reporting and Test Closure.



# Requirements Analysis

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- Analyze the requirements from a testing perspective.
- Identify testable requirements.
- Prepare Requirement Traceability Matrix (RTM).



# Test Planning

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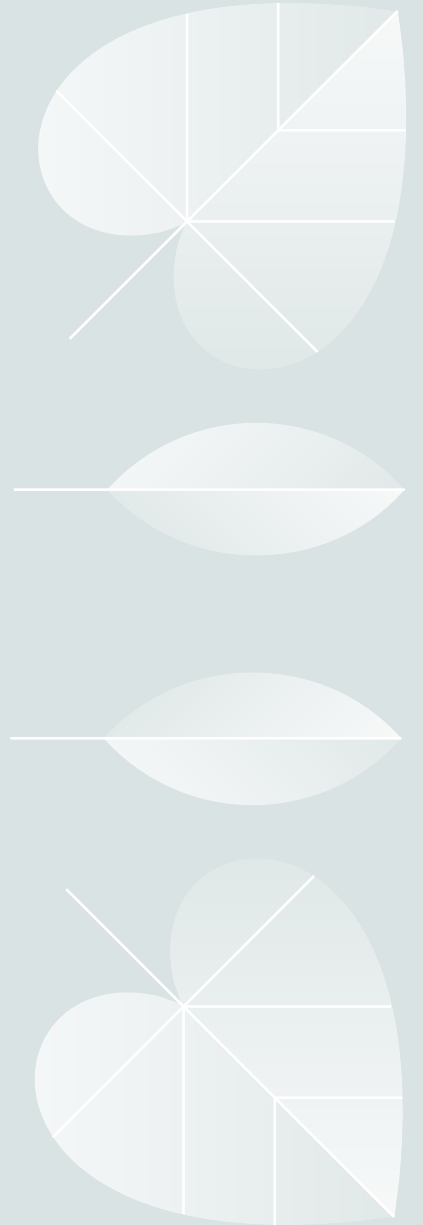
- Define the scope, objectives and strategy for testing.
- Estimate the effort and resources required.
- Develop the test plan and assign roles.



# Test Case Development

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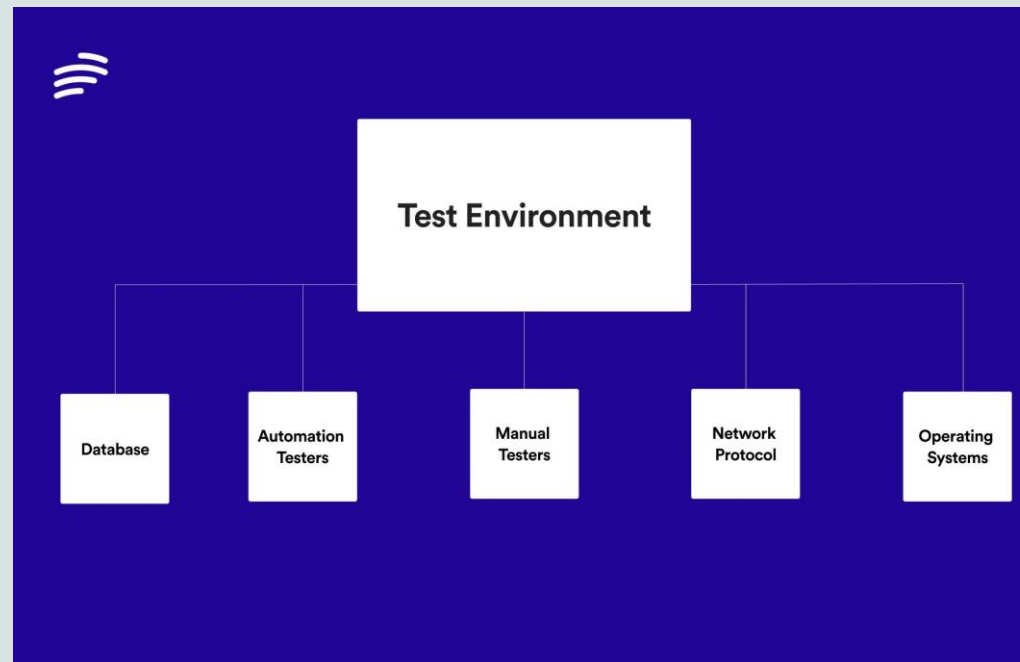
- Design detailed test cases.
- Create test data.
- Review and validate the test cases.



# Test Environment Setup

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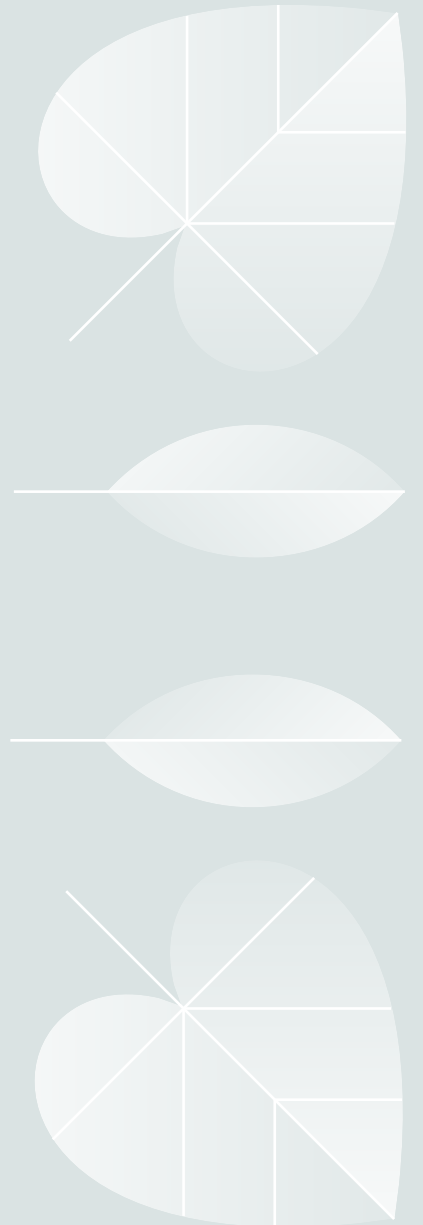
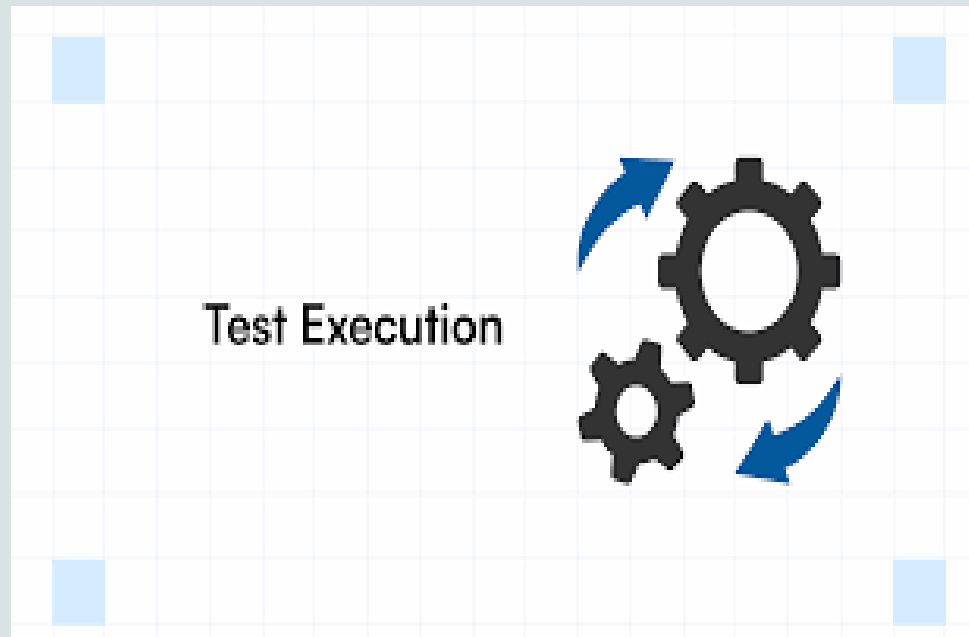
- Set up hardware and software configurations.
- Prepare necessary test environments.
- Verify the readiness of the test environment.



# Test Execution

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- Execute test cases.
- Logging test results.
- Report defects.

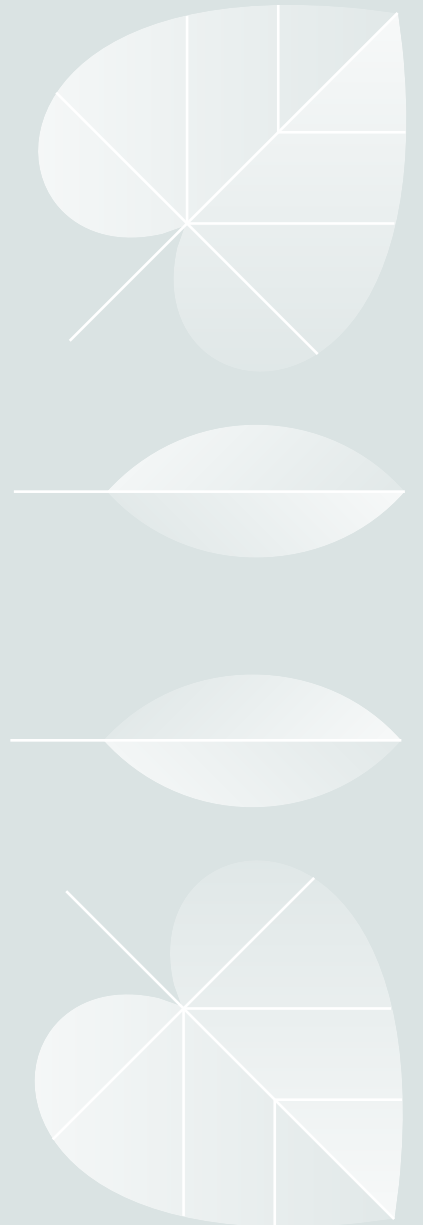
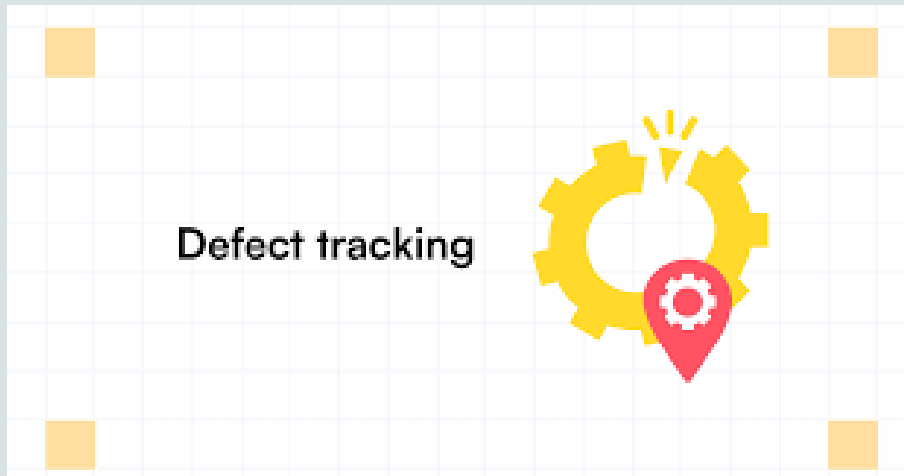




# Defect Tracking and Reporting

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- Logging defects.
- Prioritizing and assigning defects.
- Tracking defect resolution progress and reporting them.



# Test Closure

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- Ensure all test deliverables are complete.
- Analyze test metrics and evaluate exit criteria.
- Archive test artifacts for future reference.





*thank you*