



TEST CYCLE



WHAT TO EXPECT



1 Test Cycle

2 Workflow

3 Individual Components

Test Cycle

A test cycle is a well-defined sequence of testing activities that ensure software quality by systematically validating and verifying its functionality.

It helps

- identify defects early,
- improve the user experience,
- and increase confidence

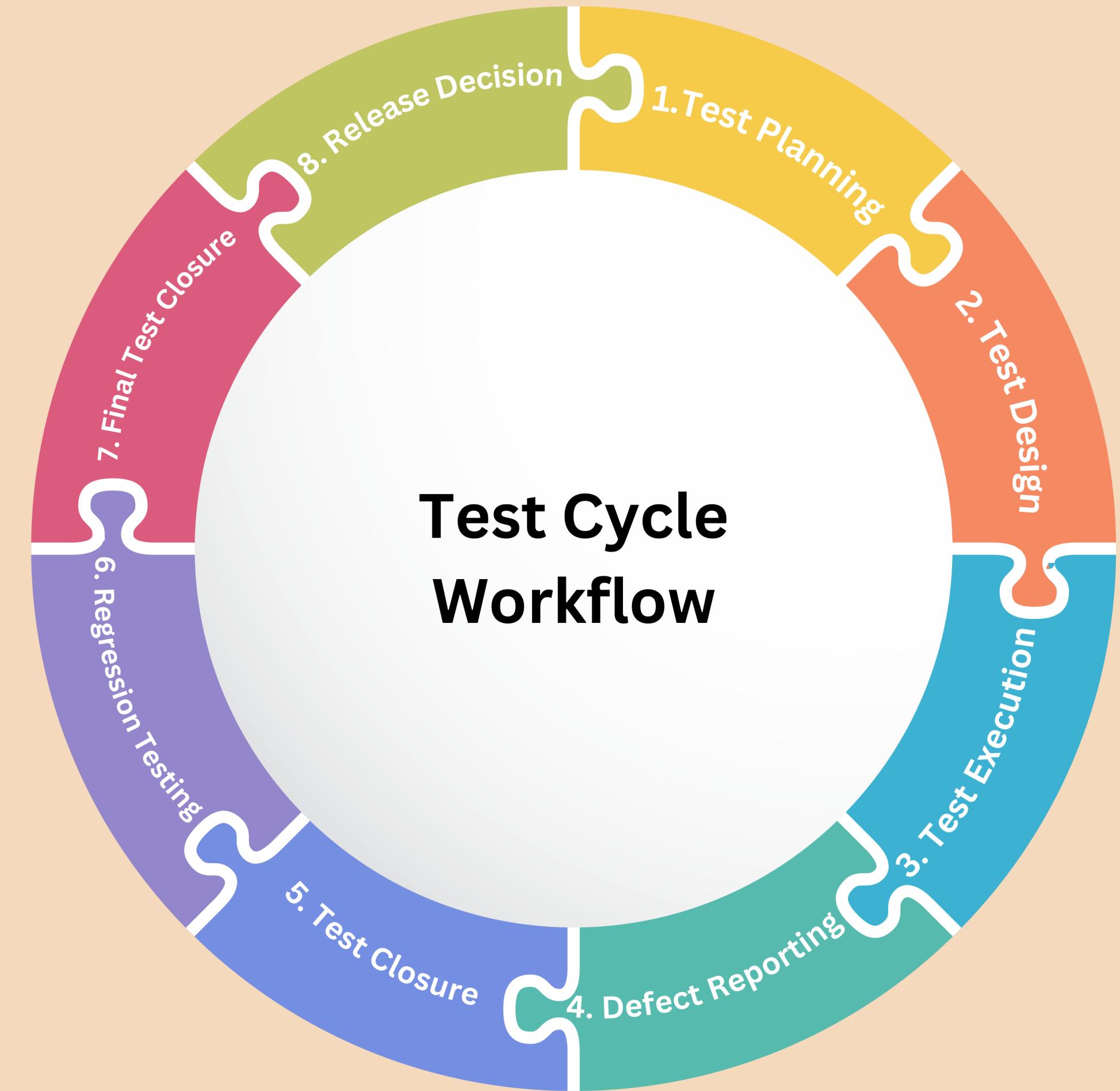


experience



in the software's reliability before it is released to users

- Test Planning
- Test Design
- Test Execution
- Defect Reporting
- Test Closure
- Regression Testing
- Final Test Closure
- Release Decision



Test Planning

- Identify objectives, scope, and resources for testing.
- Define test strategies, methodologies, and entry/exit criteria.
- Create a test plan outlining the testing approach.

Test Design



- Analyze requirements and design test cases based on them.
- Develop test scripts, test data, and test environment setup.
- Review and validate test cases for completeness and accuracy.

Test Execution

- Execute test cases according to the test plan.
- Compare actual results with expected results.
- Log defects for any discrepancies between actual and expected outcomes.

Defect Reporting and Management

- Document defects with detailed information (description, steps to reproduce, etc.).
- Assign severity and priority levels to defects.
- Track the status of defects as they move through the Defect Lifecycle

Test Closure



- Summarize test results in test summary reports.
- Analyze test coverage and effectiveness.
- Conduct post-test reviews and retrospectives to gather feedback for process improvement.

Regression Testing

- After defect fixes, perform regression testing to ensure fixes do not introduce new defects.
- Re-execute selected test cases from previous cycles to verify overall system stability.

Final Test Closure



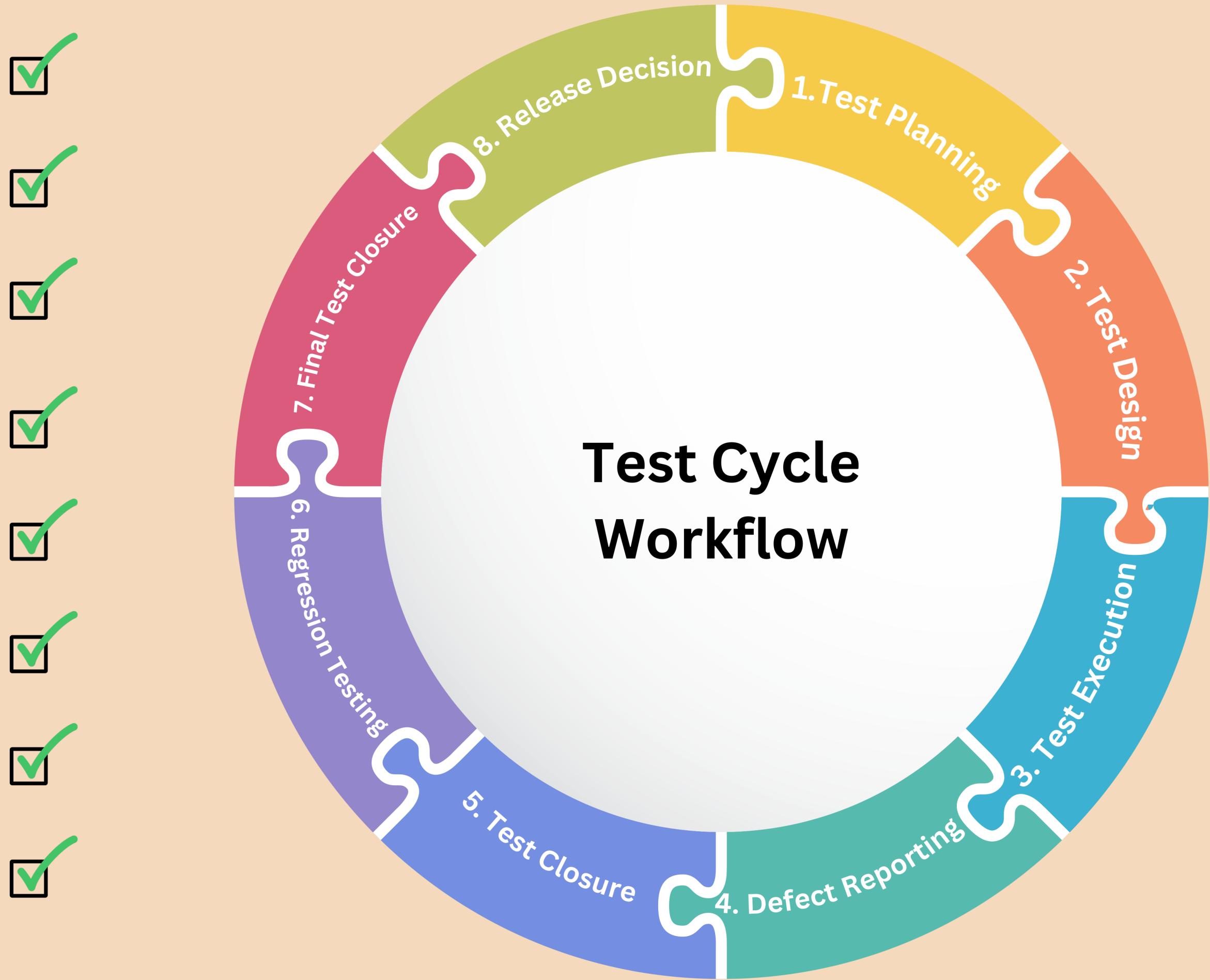
- Review the overall success of the test cycle against initial objectives.
- Archive test artifacts and documentation for future reference.
- Prepare lessons learned and insights for future test cycles.

Release Decision



- Evaluate the test results, defect status, and overall system stability.
- Make a decision about whether the software is ready for release.
- Collaborate with stakeholders to determine the appropriate time for deployment.

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See you in Next Video

