

ONE PAGE SUMMARY

IT & Software > Software Testing > Regression Testing

Introduction to Regression Testing

Ensure software stability with effective regression testing.

DEFINITION

Regression testing is a type of software testing that checks if new code changes have affected existing functionalities. It ensures that previously developed features still work after updates or bug fixes.

KEY CONCEPTS

Purpose

The main goal is to identify any unintended side effects of code changes.

Types

Includes full regression, partial regression, and unit regression testing.

Automation

Automated regression tests can save time and increase reliability in testing.

Test Cases

Regression testing relies on previously passed test cases to validate functionality.

Frequency

It should be performed regularly, especially after new releases or updates.

EXAMPLES

- Testing a login feature after a new user interface update.
- Verifying payment processing after adding a new payment method.
- Checking report generation functionality after a database schema change.

MEMORY TIPS

- ★ Think 'Regress to Progress' to remember its purpose.
- ★ Use the acronym 'R.E.S.T.' - Recheck Existing Software Tests.
- ★ Visualize a safety net catching bugs that fall through after changes.

COMMON MISTAKES

- ✗ Neglecting to update test cases after feature changes.
- ✗ Relying solely on manual testing for regression.
- ✗ Underestimating the importance of regression testing in agile cycles.

QUICK RECAP

Regression testing is crucial for maintaining software quality after changes. It checks that existing features remain functional and helps catch bugs early. Regular and automated regression tests can significantly enhance testing efficiency.