

Software Testing Types - Summary for Interview and Job Preparation

Functional Testing Types




Testing Type	Definition	Must Learn?
Smoke Testing	Basic tests to check if the build is stable.	✓ ✓ ✓
Sanity Testing	Checks new functionality works after minor change.	✓ ✓ ✓
Regression Testing	Ensure new code doesn't break existing features.	✓ ✓ ✓
Integration Testing	Check how modules interact with each other.	✓ ✓
System Testing	End-to-end testing of the entire application.	✓ ✓
User Acceptance Testing (UAT)	Client tests the software for acceptance.	✓ ✓
Retesting	Re-run test cases after bug fix.	✓
Exploratory Testing	Unscripted testing based on tester's intuition.	✓

Non-Functional Testing Types

Testing Type	Definition	Must Learn?
Performance Testing	Check speed, responsiveness under load.	✓ ✓ ✓
Load Testing	Check performance under expected user load.	✓ ✓ ✓
Stress Testing	Push system beyond limits to see how it breaks.	✓ ✓

Usability Testing	How easy and user-friendly the app is.	✓
Security Testing	Test for vulnerabilities and threats.	✓ ✓ ✓
Compatibility Testing	Check app on different devices/platforms.	✓ ✓

Testing Approaches (Based on Code Access)

Approach Type	Testing Name	Simple Definition	Who Performs It?	Must Remember?
 Functional	Black Box Testing	Test only functionality without seeing code	QA Testers	✓ ✓ ✓
 Structural	White Box Testing	Test internal code logic (loops, paths)	Developers mostly	✓ ✓
 Hybrid	Gray Box Testing	Partial code knowledge + functionality test	QA with dev access	✓