

Software Testing Checklist

A coverage checklist of the test types to run on a software release.

Functional testing

- ☐ Verify each feature works as described in the requirements.
- ☐ Test core user workflows from start to finish.
- ☐ Validate form inputs, validation rules and error messages.
- ☐ Confirm calculations, business logic and data handling are correct.
- ☐ Check integrations and APIs return the expected results.
- ☐ Verify create, read, update and delete operations behave correctly.

UI and usability

- ☐ Check layout, spacing and styling match the design.
- ☐ Verify all buttons, links and controls work as intended.
- ☐ Test loading, empty, error and success states.
- ☐ Confirm responsive behavior across screen sizes.
- ☐ Check text for typos, truncation and localization issues.
- ☐ Validate navigation and back-button behavior.

Regression and edge cases

- ☐ Re-test existing features affected by the change.
- ☐ Run the automated regression suite and review failures.
- ☐ Test boundary values such as minimum, maximum and zero.
- ☐ Test empty, very large and invalid inputs.
- ☐ Verify behavior with special characters and different formats.
- ☐ Check concurrent actions and unexpected user sequences.

Performance testing

- ☐ Measure page load and response times against targets.
- ☐ Run load tests to confirm behavior under expected traffic.
- ☐ Run stress tests to find the breaking point and failure mode.
- ☐ Check memory, CPU and database usage under load.
- ☐ Test with realistic data volumes, not just small datasets.
- ☐ Verify caching, pagination and lazy loading work as intended.

Security testing

- ☐ Test authentication, session handling and password rules.
- ☐ Verify authorization so users can't access others' data or actions.
- ☐ Check input handling against injection and cross-site scripting.
[Reference the OWASP Top 10 for common web vulnerabilities.](#)
- ☐ Confirm sensitive data is encrypted in transit and at rest.
- ☐ Test error messages don't leak stack traces or secrets.
- ☐ Scan dependencies for known vulnerabilities.

Compatibility and accessibility

- ☐ Test across major browsers such as Chrome, Firefox, Safari and Edge.
- ☐ Test on different devices and operating systems.
- ☐ Verify keyboard-only navigation works throughout.
- ☐ Check screen reader labels, headings and alt text.
- ☐ Confirm color contrast meets accessibility guidelines.
- ☐ Test behavior with slow or interrupted network connections.