Software Test Report (STR)

A Software Test Report (STR) is a comprehensive document that records the test execution details, results, and observations.

1. Test Identification, Site, Schedule, and Participation

This section documents the **fundamental details** of the test, including the **software**, **location**, **team**, **and effort involved**.

Example:

- 1.1 Tested Software Identification Software: XYZ Application v2.0 (Build 1021)
- 1.2 Documents Providing Test Basis Test Plan, Requirement Specification Document
- 1.3 Test Site Testing conducted in Lab Environment Server 192.168.1.10
- 1.4 Test Duration Start: March 10, 2025, 9:00 AM | End: March 12, 2025, 5:00 PM
- 1.5 Test Team Members John (Lead Tester), Alice (Automation Engineer), Bob (Manual Tester)
- **1.6 Other Participants** Developers and Product Managers
- 1.7 Hours Invested in Testing 15 hours total

2. Test Environment

This section describes the hardware, software, and preparation needed before testing.

Example:

- 2.1 Hardware & Firmware Configuration
 - o Server: Intel Xeon 8-core, 32GB RAM, 1TB SSD
 - Database: PostgreSQL v13
 - Operating System: Windows Server 2019
- 2.2 Preparations & Training Prior to Testing
 - o Installed latest software build on test server.
 - o Set up test accounts and access credentials.
 - o Conducted **training session** for new testers.

3. Test Results

This section provides **test execution details** including **test case outcomes** and failures.

Example:

3.1 Test Identification

• Test Name: Login Functionality Test

• Test ID: TC-001

3.2 Test Case Results

Test Case ID	Tester	Expected Result	Actual Result	Status
TC-001	Alice	User logs in successfully	Login successful	✓ Pass
TC-002	Bob	Incorrect password shows error	Error displayed	✓ Pass
TC-003	John	Forgot Password link redirects	Page not found error	X Fail

• Failed Test Case Details (TC-003):

- o **Issue**: Clicking the "Forgot Password" link shows a **404 Page Not Found** error.
- o Logs/Error Code: Error: HTTP 404 Page Not Found
- Recommendation: Fix the broken link to Forgot Password page in the next release.

4. Summary Tables for Errors & Regression Testing

This section summarizes errors found and compares results with previous test cycles.

Example:

- 4.1 Summary of Current Test Execution
 - o Total Test Cases Executed: 50
 - o Passed: 45
 - o Failed: 5
 - o Skipped: 0
- 4.2 Comparison with Previous Results (Regression Testing)
 - o Previous Cycle Failures: 7
 - Current Cycle Failures: 5 (Improvement)
 - o Issues Resolved from Last Test: Login page responsiveness fixed.

5. Special Events & Testers' Proposals

Records unexpected behaviours, problems, and improvement suggestions.

Example:

• 5.1 Special Events & Unexpected Software Responses

- During peak load testing, the application crashed when handling 10,000 concurrent users.
- The API failed when too many requests were sent in a short time, causing timeouts.

• 5.2 Problems Encountered During Testing

- Database response time was slow for queries returning more than 100,000 records.
- o Some UI elements did not load correctly in Safari browser.

• 5.3 Test Environment & Process Improvement Suggestions

- Upgrade the test servers to handle high-load scenarios.
- o Implement automated test scripts for repetitive functional testing.

• 5.4 Suggested Changes in Test Cases & Procedures

- Add stress testing scenarios to check how the system performs under high load.
- o Improve test documentation for **new team members**.