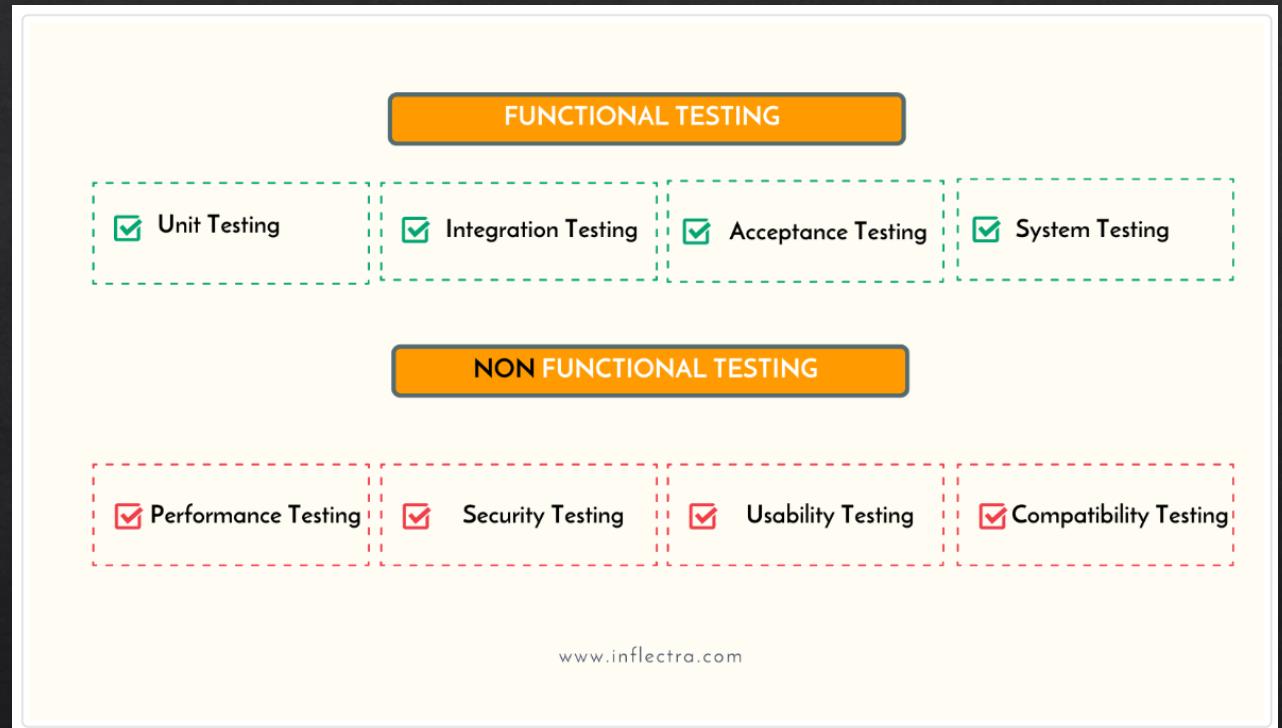


10 User Acceptance Testing

INT210 Architecture, Integration and Deployment

Types of SW Testing

- ❖ Unit tests
- ❖ Integration tests
- ❖ Functional tests
- ❖ End-to-end tests
- ❖ Acceptance testing
- ❖ Performance testing
- ❖ Exploratory testing



[Atlassian](#)

[inflectra](#)

[WiKi - UnitTestTools](#)

Types of testing

- ❖ Unit test
- ❖ Integration test
- ❖ System test

- ❖ Black-box
- ❖ White-box
- ❖ End-to-end
- ❖ Performance, security, compatibility, usability?

Acceptance Testing: Definition

- ❖ Formal testing with respect to user needs, requirements, and business processes conducted to determine whether a system satisfies the acceptance criteria^[3] and to enable the user, customers or other authorized entity to determine whether to accept the system.
- ❖ — *Standard Glossary of Terms used in Software Testing*^{[4]:2}
- ❖ Validate end-to-end business flow

UAT process

- ❖ Business Analyst (BA) prepare a UAT test plan << approved by PM, Business Owner
- ❖ Test cases prepared by BA and approved by business owner
- ❖ May re-run the test multiple times
- ❖ Results: completed tests/scope, overall pass/fail percentages, planned upcoming test cases (if not finished), issues, concerns, blockers, high-level synopsis

<https://uit.stanford.edu/pmo/UAT>

UAT Test Plan

- 1. Introduction
- 2. Testing Scope
- 3. Testing Approach
- 4. Testing Deliverables
- 5. High-Level Schedule
- 6. Error Management & Reporting
- 7. Environmental Requirements
- 8. Roles & Responsibilities
- 9. Risks & Assumptions
- 10. UAT Exit Criteria

<https://uit.stanford.edu/pmo/UAT>

UAT Plan

- ❖ Scope: business requirements that will be tested
- ❖ Approach: blackbox, operational, manual, automated
- ❖ Deliverables: code, test data, design, requirement documents, reports, results, etc.
- ❖ Environment: client, server, network, devices, etc.
- ❖ Roles and responsibilities: qualified clients, end users, helpers, interpretation/analysis, approvals

Exercise: Test plan for QR-code payment

- ❖ Requirements: QR-code payment
 - ❖ Successful
 - ❖ Unsuccessful (at least one for each member)
 - ❖ ???

QR_Payment-01: successful payment

- ❖ Approach: black-box
- ❖ Data (values to use): source account number, account balance, payment amount, destination account QR code
- ❖ Procedure: steps
- ❖ Expected output: payment amount debited from source account and credited to destination account, show payment information
- ❖ Test result: (pass/fail)
- ❖ Issues/comments:

[TestCase \(Excel\)](#)

Resources

- ❖ <https://www.altexsoft.com/blog/engineering/user-acceptance-testing/>
- ❖ <https://www.panaya.com/blog/testing/what-is-uat-testing/>
- ❖ <https://drive.google.com/file/d/1cVFI5To4MHO9mowu-kiPXPzvdVdOsQ9s/view> (Acceptance Exit conditions, from Stanford UIT)