

Introduction

- What is Testing?
- Why to test?
- What to test?
- Who tests?
- Why is software testing necessary?
- Objective of testing
- Fundamental test process
- Types of Testing

Architecture

- One Tier Architecture
- Two Tier Architecture
- Three Tier Architecture

SDLC

- Requirement gathering and analysis
- Design
- Coding
- Testing
- Deployment
- Maintenance

Software Development Models

- Waterfall model
- V model
- Incremental model
- Agile model

Verification and validation

- What is verification?
 - Technical review
 - Walkthrough
 - Size
 - Inspection
- What is validation ?
 - Unit Testing
 - Integration Testing
 - System testing
 - User Acceptance Testing
- Difference between Verification and validation

Quality

- What is quality?
- What is quality assurance ?
- What is quality control?
- Difference between QA and QC

Functional Testing

- What is functional testing ?
- Black Box Testing
- Equivalence Class Testing
 - Boundary Value Testing
 - Decision Table Testing
 - State Transition Testing
 - Use-case Based Testing
 - Error guessing
- White Box testing
 - Statement Coverage
 - Branch Coverage

- Path Coverage
- Gray testing
- Usability testing
- Configuration Testing
- Compatibility Testing
- Localization Testing
- Globalization Testing

Nonfunctional Testing

- Security testing
- Recovery testing
- Installation Testing
- Performance Testing
 - Load testing
 - Stress Testing
- Re-testing
- Regression Testing
- Smoke Testing
- Sanity Testing
- Adhoc Testing
 - Buddy Testing
 - Pair Testing
 - Monkey Testing

STLC

- What is STLC?
- Requirement Analysis
- Test Planning
- Test Case Development
- Environment Setup
- Test Execution
- Test Cycle Closure
- What is Test Scenario?
- How to write test scenario

- What is test case?
- How to write test case
- What is positive test case?
- What is negative testing?
- Test case review
 - Self-review
 - Peer review
 - Review by a supervisor

DefectLifeCycle

- New
- Assigned
- Active
- Test
- Verified
- Closed
- Reopened
- Deferred
- Rejected
- What is Severity?
 - Critical
 - Major
 - Medium
 - Low
- What is Priority?
 - Low
 - Medium
 - High
- Difference of severity and priority

Live Project