

MANUAL TESTING

Introduction

- ❖ Introduction to software Testing
- ❖ Software Development Process
- ❖ Project Vs Product
- ❖ Objectives of Testing
- ❖ Testing Principles

Software Development Life Cycle

- ❖ SDLC

SDLC Models

- ❖ Waterfall Model
- ❖ Spiral Model
- ❖ V-Model
- ❖ Prototype Model
- ❖ Agile Model(Scrum)
- ❖ How to choose model for a project

Software Testing-Methods

- ❖ White Box Testing
- ❖ Black Box Testing
- ❖ Gray Box Testing

Levels of Testing

Unit Testing

Integration Testing

- ❖ Structural Testing
 - Statement Coverage Testing
 - Condition Coverage Testing
 - Path Coverage Testing
- ❖ Big Bang Integration
- ❖ Top down approach
- ❖ Bottom up approach
- ❖ Stubs and Drivers

System Testing

Functional Testing

Non Functional Testing

- ❖ Compatibility Testing
- ❖ Performance Testing
 - Load Testing
 - Volume Testing
 - Stress Testing
- ❖ Recovery Testing
- ❖ Installation Testing
- ❖ Security Testing
- ❖ Usability Testing
- ❖ Accessibility Testing

What is the difference B/W Performance Load & Stress Testing

User Acceptance Testing

- ❖ Alpha Testing
- ❖ Beta Testing

Testing Terminology

- ❖ End-End Testing
- ❖ Ad-hoc Testing
- ❖ Risk Based Testing
- ❖ Sanity/Smoke Testing
- ❖ Re-Testing
- ❖ Regression Testing
- ❖ Exploratory Testing
- ❖ Parallel Testing
- ❖ Concurrent Testing
- ❖ Globalization Testing
 - I18N
 - L10N

Windows & Web Application Testing

- ❖ Check List for Window App Testing
- ❖ Check List for Web Application Testing
- ❖ Web APP Testing Terminologies

Software Testing Life Cycle (STLC)

Test Strategy

Test Planning

Test planning

Test Cases Design

- ❖ Error guessing
- ❖ Equivalence Partition
- ❖ Boundary Value Analysis

Test case Authoring

- ❖ Functional Test case
- ❖ Review of test case
- ❖ Walkthroughs
- ❖ Inspection
- ❖ Peer Review
- ❖ Traceability Matrix

Build Release process

- ❖ SRN & DD
- ❖ Build Deployment
- ❖ Project DevEnv(Dev, Test ,Prod)

Test Execution Process

Defect Reporting & Tracking

- ❖ Defect Reporting
- ❖ Defect Life cycle
- ❖ Severity ,priority
- ❖ Defect Tracking Tools

Test Closure

- ❖ Criteria for Test Closure
- ❖ Test Summary Reports

Additional

- ❖ Introduction to VSS
- ❖ Project Metrics
- ❖ QA & QC

- ❖ ISO &CMM standards
- ❖ Testing Certifications
- ❖ Interview Questions
- ❖ Organization Hierarchy
- ❖ Role of Proect Team members

Test case management tool:

- ❖ Introduction to test case management tool
- ❖ Test Rail
- ❖ Basics of Test Rail
- ❖ Installation of Test Rail
- ❖ How to write Test cases in Test Rail
- ❖ How to create Test Suites
- ❖ Grouping of Test Cases
- ❖ Conclusion of Test Rail

Bug Reporting Tool:-

- ❖ JIRA
- ❖ Basics of JIRA
- ❖ Purpose of JIRA tool
- ❖ Bugs Reporting
- ❖ Bugs Tracking
- ❖ Filtering Bugs
- ❖ Project management in JIRA
- ❖ Conclusion