

SOFTWARE TESTING

Software Testing



SUMMARY

- Manual Testing
- Core Java Using Eclipse
- API Testing With Postman Tool
- Database Testing Using MySQLServer 2014
- Automation Testing Using Selenium Web Driver
- TestNG Framework
- POM Framework
- BDD Cucumber Framework
- Jira
- Linux/Unix Commands
- 2 Industry Level Live Projects

1. INTRODUCTION

- Introduction To Testing
- What Is Testing?
- Importance Of Testing
- Common Problem In Testing
- What Is Software Quality?
- Objective Of Testing

2. DIFFERENT ISSUES

- What Is Error?
- What Is Fault?
- What Is Bug?
- What Is Defect?
- What Is Mistake?
- What Is Flaw?

3. SDLC

- What Is SDLC?
- Phases In SDLC
 - Requirement Gathering
 - Planning
 - Design
 - Development
 - Testing
 - Deployment
 - Maintenance & Hypercare

4.SDLC MODELS

- Waterfall Model
- Spiral Model
- V Model
- Agile Testing Implementation
- Agile SCRUM

5.KINDS OF TESTING

- Unconventional Testing
- Conventional Testing

6. METHODS OF TESTING

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

7. STATIC TESTING

- What Is Static Testing?
- Review
- Inspection
- Audit
- Walkthrough

8. DYNAMIC TESTING

- What Is Dynamic Testing?
- Types Of Dynamic Testing
 - Unit Testing
 - Module Testing
 - Integration Testing
 - System Testing
 - User Acceptance Testing

9. SOFTWARE PROJECT ENVIRONEMNT

- Standalone Environment
- Client/Server Environment
- Web Environment
- Distributed Environment

10. TESTING LIFE CYCLE & IMPLETATION OF REAL TIME PROJECT

- Requirement Review
- Test Plan Preparation
- Test Strategy Preparation
- Test Case Identification

11. BLACK BOX TEST DESIGN TECHNIQUES

- ECP
- BVA

12. WHITE BOX TEST DESIGN TECHNIQUES

- Basis Path Testing
- Cyclomatic Testing
- Condition Testing
- Code Coverage

13. USE CASES

- What Is Use Case?
- UCD
- Identification Of Use Case Based Test Cases

14. TEST CASE DESIGN

- Introduction
- Test Case Design Template
- Types Of Test Cases
- Test Case Design Reviews
- Requirement Traceability Matrix
- Test Data Setup

15. TEST DATA

- What Is Test Data?
- Importance Of Test Data In Testing
- Approach For Gathering Test Data
- Benefit Of Test Data

16. TEST EXECUTION

- Introduction To Test Execution
- Test Execution Life Cycle
- Retesting
- Regression Testing
- Database Testing

17. RESULT ANALYSIS

- What Is Result Analysis?
- Comparing Actual Result Vs Expected Result
- Status Of Result

18. DEFECT TRACKING

- What Is Defect?
- Categories Of Defect
- Preparation Of DPD(Defect Profile Document)
- Defect Matrix
- Defect Reporting
- Defect Life Cycle Process
- Defect Removal Efficiency

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19. TEST MEASUREMENT TECHNIQUES & METRIC COLLECTION

- Importance Of Test Metric
- Testing Data Used For Metrics
- Different Types Of Metrics

20. TEST CLOSURE ACTIVITY

- Test Execution Stop Criteria
- Test Summary Report Preparation
- Status Of Result

21. USER ACCEPTANCE TESTING(UAT)

- What Is UAT?
- Importance Of UAT
- Scope Of UAT
- Alpha Testing
- Beta Testing

22. TESTING TECHNIQUES IN LIVE ENVIRONMENT

- Smoke Testing
- Sanity Testing
- Re-Testing
- Regression Testing
- Static & Dynamic Testing
- Deployment/System Testing
- Probability/Compatibility Testing
- Usability Testing
- Exploration Testing
- White Box, Black Box & Gray Box Testing
- Forced Error Testing
- End-To-End Testing
- Security/Penetration Testing
- Scalability Testing
- Reliability Testing
- Accessibility Testing
- Ad-hoc Testing
- Agile Testing
- Informal/Big-bang Testing
- Incremental Testing/Formal Testing
- Localization Testing
- Performance Testing
- Load & Stress Testing
- Recovery Testing

23. TEST MANAGEMENT PROCESSWhat Is Test Management Process?

- Requirements
- Business Components
- Test Plan
- Test Lab
- Defects

24. SITE ADMINISTRATION

- Creating Domain/Project
- Adding Users To Project
- Creating Groups
- Customization Of Quality Center, Release & Cycle Creation
- Test Requirements
- Example Of Test Requirements
- Importance Of Tracing & Tracking Requirements
- Reviewing & Building Requirement Structure
- Entering Requirement Manually

25. TEST CASE CREATION & MANAGEMENT

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- Requirements
- Business Components
- Test Plan
- Test Lab
- Defects

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- Setting Test Set Properties
- Manual Test Execution
- Logging Defects During Manual Testing
- Automated Test Execution
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