



9. Software Testing

9.1 Manual Testing

Duration: 30 Lectures

Course Content:

1. Introduction

- 1.1. Testing Fundamentals
- 1.2. Software Testing - Introduction - Importance
- 1.3. Seven Fundamental Principles of Testing
- 1.4. SDLC Vs STLC
- 1.5. Software Testing Life Cycle - STLC explained

2. Types of Testing

- 2.1. Manual Testing Tutorials for Beginners
- 2.2. Automation Testing
- 2.3. Unit Testing
- 2.4. Integration Testing
- 2.5. System Testing
- 2.6. Smoke and Sanity Testing
- 2.7. What is Regression Testing?
- 2.8. Non - Functional Testing

3. TestCase Development

- 3.1. First Steps Test Case Development
- 3.2. Test Scenario
- 3.3. Test Case Specifications
- 3.4. Test Basis
- 3.5. Traceability Matrix



4. Testing Techniques

- 4.1. Equivalence Partitioning & Boundary Value Analysis
- 4.2. Decision Table Testing
- 4.3. State Transition Diagram
- 4.4. Use Case Testing
- 4.5. Testing Review

5. Test Management & Control

- 5.1. Estimation
- 5.2. Test Plan

6. Defects

- 6.1. Defects
- 6.2. Defect Life Cycle
- 6.3. Testing Tools

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