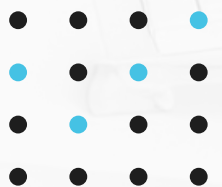# VTechLabs

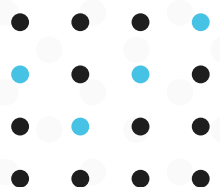# Manual Testing

Introduction to Manual Software Testing

→ Understanding the basics of software testing

→ Importance and objectives of manual testing

→ Software development life cycle (SDLC) and testing phases

→ Role of manual testers in the development process

Software Testing Fundamentals

→ Testing principles and concepts

→ Types of software defects and errors

→ Software testing levels (unit testing, integration testing, system testing, acceptance testing)

→ Test planning and documentation

Software Testing Fundamentals

→ Writing effective test cases

→ Test case design techniques (boundary value analysis, equivalence partitioning, decision tables)

→ Test case execution and reporting

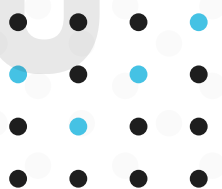→ Test case management tools (e.g., JIRA)

Functional Testing Techniques

→ Overview of functional testing

→ Functional testing types (smoke testing, sanity testing, regression testing, user acceptance testing)

→ Black-box testing techniques (equivalence partitioning, boundary value analysis, decision table testing)

Non-functional Testing

→ Introduction to non-functional testing

→ Performance testing (load testing, stress testing, scalability testing)

→ Usability testing

→ Security testing

→ Compatibility testing

MANUAL TESTING

Defect Management

→ Defect life cycle

→ Defect tracking and reporting

→ Severity and priority of defects

→ Root cause analysis and defect prevention techniques

Test Documentation and Reporting

→ Test plan creation and management

→ Test summary reports

→ Defect reports and metrics

→ Test closure activities

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TESTING

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