



Curriculum Of Software Manual Testing

MODULE:- 1

MANUAL TESTING

INTRODUCTION

- Introduction to Software Engineering
- Importance of Software Testing
- Define Software, Quality, Testing
- Seven Principles of Software testing
- Terms used in SQT (Defect, Error, Bug, Failure, Fault, etc...)
- Software Development Life Cycle

MODELS OF SOFTWARE ENGINEERING

- Linear Sequential Model (Water Fall Model)
- Prototype Model
- Incremental Model (RAD)
- Spiral Model & V Model

AGILE METHODOLOGY

- Introduction to Agile Methodology
- Scrum Process
- Meeting & Artifacts (Sprint, Sprint Burn Down Chart, Sprint, Sprint Review etc).

FUNDAMENTALS OF TESTING

- Seven Testing Principles
- Static Testing
- Review
- Inspection
- Audit
- Walkthrough

TESTING METHODOLOGIES

- Black Box Testing
- Boundary Value Analysis
- Equivalent Class Partitioning
- Decision Table Testing
- State Transition Testing
- White Box Testing
- Conditional Coverage
- Branch Coverage
- Gray Box Testing



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TESTING LEVELS

- Unit Testing
- Integration Testing
- System Testing
- Functional Testing
- Non Functional Testing
- Alpha -Beta Testing
- User Acceptance Testing
- Final release and Integrity Testing

TYPES OF TESTING

- Re-Testing and Regression Testing
- Sanity Testing and Smoke Testing
- Usability Testing
- Compatibility Testing
- Load, Stress, Volume
- Endurance Testing
- Performance Testing
- Positive and Negative Testing
- Ad hoc Testing
- Security Testing
- Usability Testing

TEST MANAGEMENT

- Test Plan
- Software Test Life Cycle (STLC)
- Test Case
- Test Data
- Overview of Traceability Matrix and Creation
- Overview of Test Metrics and its Importance
- Optimizing Test Cases (Testing Techniques)
- Defect Life Cycle
- Bug Reporting and Management
- Severity Vs Priority

QUALITY ASSURANCE AND QUALITY CONTROL

- Quality Assurance
- Quality Control
- Difference between Quality Assurance and Quality Control



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API TRAINING

- HTTP Status Code
- Get Post Put Delete Method
- Introduction to Postman
- API Testing on Postman

LIVE PROJECT

- Web Portal
- Tours

MODULE:- 2

AUTOMATION TESTING

QUICK TEST PROFESSIONAL

- Introduction to Quick Test Professional (QTP)
- Types of Recording

NORMAL, ANALOG & LOW LEVEL

- Types of Object Repository
- Merging of Object Repository
- Check Points
- Standard Checkpoint
- Text Checkpoint
- Text Area Checkpoint
- Bitmap Checkpoint
- Database Checkpoint
- Accessibility Checkpoint
- XML Checkpoint (from application)
- XML Checkpoint (from resources)

PARAMETERIZATION

- Data Table
- Random Number
- Environment Variable
- Action Parameter

OUTPUT VALUES

- Standard Output Value
- Text Output Value
- Text Area Output Value



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- Database Output Value
- XML Output Value (from application)
- XML Output Value (from resources)

RECOVERY SCENARIO MANAGER

- Popup & Object
- Test Run error
- Application Crash

ACTIONS

- Call to new action
- Call to existing action
- Call to copy action

CALL TO WIN RUNNER

- Test Batch Runner

DEFECT TRACKING TOOL

- JIRA/ GIT LAB

PERFORMANCE TESTING TOOL (LOAD RUNNER)

- Introduction to Load Runner (LR)
- Load Runner Testing Process
- Working with Vuser Scripts
- Working with Vuser
- Setting Transactions
- Define Rendezvous Point
- Inserting Rendezvous Point
- Load Runner Controller
- Load Runner Generator
- Generating Load through Vusers
- Load Runner Result Analyzer
- Generating reports

MODULE:- 3

DATABASE TESTING

INTRODUCTION

- What is Database Application?
- Understanding data storage



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- Back end & front end Testing
- General Database Basics
- Relational Database Concepts

BASIC SQL

- Overview of DML , DDL, TCL
- DML : Insert , update , Delete , merge
- DDL : Create, Drop, Alter, Rename, Modify, Truncate
- TCL : Commit, Role Back, Save Point

JOINS

- Obtaining data from multiple tables
- Types of joins : Inner joins, Non equies Join, Cross Join, Natural Join, Left Join ,Right join, Full Join

OPERATORS: (DATA USING GROUP FUNCTION)

- Arithmetic Operator
- Relational/Logical
- Like Operator

CONSTRAINTS & VIEW

- Not Null
- Unique
- Primary key
- Foreign key
- Check