Manual Testing Course Content

Chapter 1 : Introduction - 2 hours

- ✓ Software Testing introduction
- ✓ Verification and Validation
- ✓ Application types
  - Windows application or Desktop Application – Standalone and Client/Server applications
  - Web application – 3- tier or N-tier application
  - Web Portals
  - Mobile Applications.
- ✓ Difference between desktop application and web applications
- ✓ Web application vs Web Portals
- ✓ Mobile application testing and its introduction

Chapter 2: SDLC Models – 3 hours

- ✓ Need of SDLC and its Phases introduction
- ✓ Waterfall Model
- ✓ Prototype Model
- ✓ Spiral Model
- ✓ V- Model
- ✓ Analysis of traditional sdlc model and current model
- ✓ Incremental Model – Agile and Scrum Framework
- ✓ Agile
- ✓ Importance of Agile and its different framework – Sprint
- ✓ Scrum roles and responsibilities
- ✓ Scrum user story splitting and estimation techniques
- ✓ Pros and cons of Scrum framework

Chapter 3 : STLC– Software Testing Life Cycle – 3 hours

- ✓ Difference between Use cases, Test cases and Scenarios
- ✓ Difference between Test plan and Strategy
- ✓ Concept about Error, bug, defect and failure.
- ✓ Preparing Bug report
- ✓ Bug life Cycle
- ✓ Entry and Exit Criteria
- ✓ Priority and severity

- ✓ Introduction to test management tool
- ✓ Exercises with test management tools like bug tracker

Chapter 4 : Principles of testing - 1 hour

- ✓ Seven Principles of testing - Importance
- ✓ Real time examples for below principles
  - Testing shows presence of defects
  - Exhaustive testing is not possible
  - Early testing
  - Defect clustering
  - Pesticide paradox
  - Testing is context dependent
  - Absence of errors fallacy

Chapter 5: Types of testing - 30 Minutes

- ✓ Static and Dynamic testing
- ✓ Functional and Non Functional testing

Chapter 5.1 : functional testing - 4 hours

- ✓ Black Box testing and its types –
  - BVA (Boundary Value Analysis)
  - Equivalence partitioning,
  - Decision tables
  - Graph based methods – State transition diagram
  - All Pairs testing
- ✓ White box testing and its nature
- ✓ SIT - System Integration testing
- ✓ UAT – User Acceptance testing
- ✓ Adhoc testing
- ✓ Regression testing
- ✓ Progression testing
- ✓ Exploratory Testing
- ✓ Alpha and beta testing
- ✓ Positive and Negative testing
- ✓ Integration – Big Bang approach and Incremental approach
- ✓ Top Down and Bottom up integration approach
- ✓ Importance of Integration testing and its test case preparation

Chapter 5.2 : Non functional testing - 2 hours

- ✓ Importance of Non-functional testing
- ✓ Types of Non-Functional testing

  - Performance testing (Stress and Load)

- Volume
- Security
- Compatibility
- Configuration testing
- Comparison
- Scalability

✓ Requirement traceability matrix – Requirement mapping
✓ Test Coverage or Requirement Mapping

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