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# Testing

### What is Testing

### Importance of Testing & Overview

# SDLC- Software Development Life cycle

### Requirement Analysis

### Design

### Coding or Implementation

### Testing

### Deployment

### Maintenance

# STLC- Software Testing Life Cycle

### Requirement phase

### Test Plan phase

### Test Design phase

### Test Environment setup phase

### Test Execution phase

### Test Closure phase

**Testing Methodologies**

### V Model

### Agile & Scrum

### Waterfall model

**Testing Documents**

### FRS - Functional Requirement Specification Documents

### Technical Design documents

### Test Plan & Strategy document

### Test Estimations documents

### User Guide or Functional KT documents

### Test Closure document

### Test Scenario Template document

### Test case Template document

### Defect log document

### GSR request document

# Tester Roles in a company

### Requirement Analysis & understanding

### Test Preparation Activities

### Test Scenario Preparation

### Test Scenario Internal & External review

### Test Scenario walkthrough session with BA

### Test Scenario Approvals

### Test case design /preparation

### Send Test cases for Internal review with in the team

### Send Test cases for external review with BA, Design team etc

### Test case uploads in Quality Center

### Attending daily status meeting to progress updates

### Query tracker follow-up with BA

### Ensure Test case/scenario/defect standards as per the project team

### Sending daily progress updates

### Test case execution

### Defect logging

### Test Reporting

# Testing Team Hierarchy

### Software Test Engineer

### Senior Software Test Engineer

### Test Lead

### Test Manger

# HP ALM 12.53

### Requirements

#### Requirements Analysis & Understanding

#### Requirements Creation

### Test Plan

#### How to write test cases,

#### How to upload test cases,

#### How to link requirements to Test cases,

#### How to create test case,

#### Test case template

#### How to write prerequisite in Test case step

#### Query Log

### Test Lab

#### How to create Test set,

#### How to drag test cases under test set,

#### How to executes test cases (PASS,FAIL,BLOCK,NO RUN,NOT Completed)

#### How to link defects to failed test cases

### Defects

#### How to create/log defects

#### Defect parameters

#### Defect life cycle

# Test Environment

### Development Environment

### Test Environment checklist

### Production Environment

### What is a Build in testing terminology?

### Build/Code Deployment?

### Test Environment up & Running, Test environment downtime?

### Test environment access and checks with your user id

### Test Data

# System & Integration Testing

### Functional Testing team/Release Testing

### Regression Testing Team

### Integration Testing Team

### Auto mation Testing Team

### Performance testing Team

### Security Testing Team

### UAT Testing team (SIT,FAT , last UAT )

# Testing definition

### Unit Testing

### Smoke/Sanity Testing

### Functional Testing

### Regression Testing

### Role Based Testing

#### View level access (Page access)

#### Data level access (Records visibility, Read/Write only)

#### Hierarchy based Testing (Sales & Manager,approvals,rejects)

#### State Model diagram ( Sales user,Manager,AuditManger status tracking)

#### Region based Testing

### Performance testing

#### Load Testing

#### Stress Testing

#### Volume Testing

### Security Testing Team

### UAT Testing:

#### Alpha Testing

#### Beta Testing

### Integration or Interface Testing:

#### Top Down approach (Stubs) Example : API Testing

#### Bottom up Approach (Drivers)

#### Inbound & Outbound Testing

#### API Testing/Web Services Testing/Interface 223/334

### Compatibility Testing:

### Browser (IE,FIREFOX,Chrome)

### Windows7,Windows 8, Windows 10 (plat form)

### Adhoc Testing:

### No Test cases for Adhoc Testing

### Random testing

### Based on experience

### GUI based Testing:

### Navigations

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### Patch Testing:

### Monthly patch testing of Product new features

### Quarterly patch testing

### Risk based Testing

### Static Testing, Dynamic Testing

### Database & ETL Testing

# Test Scenario & Test Case

### How to write Test case (FR documents, Specification)

### How to write Test scenario

### Test case attributes

### Test case template

### Test data?

### Test case Prerequisite?

### Test case Objective / Description?

### Expected Result (Test design bases on requirements)

### Actual Result (Test Lab during execution phase)

### Writing Test cases for an application

### Test case design complexity calculation (Simple/Medium/Complex) :

### Number of steps

### Complex calculations

### Number of Interfaces/components

### 

* **Test case Execution complexity calculation (Simple/Medium/Complex) :**

### Test Data preparation

### Role based testing

### Complex calculations testing

### Source & Target systems data reconciliation testing etc..

# Testing Case Design Techniques

### Boundary value analysis

### Equivalence class partitioning

### State Transition

### Decision Table

### White Box Testing Techniques

# Testing Metrics

### Test Estimation Metrics

### Requirement Metrics

### Test Design Metrics

### Test Execution Metrics

### Defect Metrics

# Test Deliverables

### Test Plan

### Test Strategy

### Test Scenario’s & Test Cases

### RTM (Requirement traceability matrix)

### Test Completion certificate

# Reports

### Daily Status Report

### Weekly/Monthly Status Report

### Test Completion Report