**Manual Testing**

* **Introduction of Software Testing**

What is testing?

What to be tested in now-a-days Web/mobile applications?

What is difference Manual Testing and Automation?

Explain below terminologies?

1. Project
2. Product
3. Error
4. Defect/Bug/Fault
5. Failure

Software Testing Principles

* **SDLC Models**

Waterfall Model

V-Model

Incremental Iterative Models

Agile Methodology

Introducing Agile Process

Agile Manifesto

Agile Principles

* **Software Testing Methods**

White Box Testing

Black Box Testing

Grey Box Testing

Agile Testing

Ad Hoc Testing

* **Software Testing Life Cycle (STLC)**

Requirement Analysis

Test Planning

Test Scenario/ Test Case Design

Test Environment Setup

Test Execution

Test Closure

* **Test process Documents**

Test plan

Test scenarios

Test Case

Test case Design Techniques

* + 1. Equivalence Partitioning
    2. Boundary Value analyses
    3. Decision Table
    4. Error Guessing

RTM (Requirement Traceability Matrix)

Defect Report

* **Defect**

1. How to raise a defect
2. Defect Tracking and Management
3. Defect Life Cycle
4. Priority VS Severity
5. Triage Team
6. Deferred defects
7. Defect Reports

* **Test Case Authoring**

Functional Test case

Review of Test case.

Walkthroughs

Inspection

Peer Review

* **Agile Methodology(Scrum Framework)**

Introduction to Scrum Framework

1. What is scrum?
2. For what kind of projects scrum is suitable?
3. For what kind of projects scrum is not suitable?
4. Discussion on Sprint Planning
5. Discussion on story cards

Components of Scrum Framework

1. Scrum Roles
2. Scrum Artifacts
3. Scrum Events

Scrum Roles and Responsibilities

1. Product Owner
2. Scrum Master
3. Scrum Development team

Scrum Artifacts

1. Product Backlog
2. Sprint Backlog
3. Burn down Chart Scrum

Events or Ceremonies

1. Sprint Planning Meeting
2. Daily Scrum Meeting
3. Sprint Review Meeting
4. Sprint Retrospective Meeting

* **Test / Project Management Tool: JRA**

Importance of JIRA and How to Install JIRA

What are the features of JIRA?

How to create a JIRA Project.

Adding Users tour JIRA Account

Importance of Defect Life Cycle and

Understanding the various stages / states of a defect.

Converting a Defect Life Cycle into JIRA

workflow for a project

Adding Bugs to the JIRA Project

Attaching screenshots to the Bugs in JIRA

Assigning, Closing, Adding comments etc to the JIRA bugs.

Creating and Customizing JIRA Dashboard.

* **DATA BASE TESTING:**

Introduction to database testing

Why to test and what to test in a database

Differences between UI and Database testing

How to test a database

SQL Concepts

Types of SQL statements

1. Data Definition Language
2. Data Manipulation Language
3. Data Control Language

Important SQL Commands

SQL in detail

DESC/SHOW

COUNT

DISTINCT

WHERE

OPERATORS IN SQL

AND & OR

TOP

ORDER BY

GROUP BY/HAVING

INSERT INTO/SELECT INTO

UPDATE/ALTER

DELETE/TRUNCATE/DROP

ALIASES

JOINS

UNION/INTERSECT/EXCEPT

CREATE

DATA TYPES

NULL VALUES

INDEXES

VIEWS

DATE FUNCTIONS

TEMPORARY TABLES

SUB QUERIES