**Task-Test Case & Bug Reporting**

**Q2.Write the key points on Test Scenario, Test Case, Test Strategy and Plan, Test Summary Report.**

**Test Scenario**

**Ans:-** A test scenario is a high-level description of a functionality or feature of an application that needs to be tested.

Key Aspects of Test Scenarios:-

* **Purpose**;- It tells what to be tested rather than how the testing will be done.
* **Broad** **Coverage:** It covers broad functionalities or features of a product going under Test.
* **User Perspective:** Test Scenarios should be written in user perspectives that tells how the end-user will interact with the product/software.
* **Simplification:** Test scenarios simplify the features into smaller readable parts, making it easier to understand.

Example of a Test Scenario:

* Checking Login functionality
* Checking payment functionality

**Test Case**

**Ans:-**  Detailed steps to test more specific features of the Test Scenarios are called Test Cases.

Key Aspects of Test Cases:-

* **Test Case ID:**- A unique identifier for the test case. It helps in tracking and referencing the test case easily.
* **Title:-** Summarize the purpose of the Test Case
* **Precondition:-** The condition must be met before the test case will be executed.
* **Test Steps:-** Details steps followed for testing each Test Case
* **Test Data/Input:**- Giving external data to check the particular functionality.
* **Expected Results:**- Outcomes comes after executing the test case
* **Actual Result:**- Expected outcome to check against the expected to verify whether a particular test case is pass/fail.
* **Priority:-** Low/High based on condition
* **Severity:-** Major/critical/minor based on condition
* **Attachments**:- Screenshot as a proof.

Example of a Test Scenario:

* **TS:** Checking Login functionality
* **TC\_001:-** Checking to Login Functionality entering **valid username & valid password**.
* **TC\_002:-** Checking to Login Functionality entering **valid username &invalid  password.**
* **TC\_003:-** Checking to Login Functionality entering **invalid username & valid password.**
* **TC\_004:-** Checking to Login Functionality entering **invalid username & invalid password.**

**Test Strategy and Plan**

**Test Strategy;-**

* High Level plan that we (Tester) are going to follow for the overall Test Process.
* Structured approach to the entire QA team which guides the QA team towards achieving a good quality product.

Types of Test Strategy:-

1. **Analytical Test Strategy:**- In this strategy we are analyzing the risk of a product. This is also called Analysis of Risk.
2. **Model Based Test Strategy:-** In this strategy , we are creating models and our test cases depend on that model.
3. **Consultative Bases Test Strategy:-**  In this strategy the testing is done by taking  consultation from the experts.
4. Reactive Test Strategy:- Based on reaction from the software/product we write test cases.

Test Plan:-

* Overall step by step plan of STLC is called the Test Plan.

Test Plan Includes:-

* Test Strategies
* Test Schedule
* Test Resources
* Test Budgets
* Types of Testing
* Risk Handling
* Entry Criteria
* Exit criteria

Test Summary Report

* It is also known as Test Closure Report
* It gives details about the Test Results and defects.
* Can be created after any milestone

Benefits of Test Summary Report

* Keeps stakeholders informed about the status of the project and quality.

Ingredients of Test Summary Report

* Test Objectives
* Areas Covered/not covered
* Defects
* Test Strategy approach
* Platforms
* Types of Testing
* Test case details