

STLC (Software Testing Life Cycle)

What is your organizations testing process?

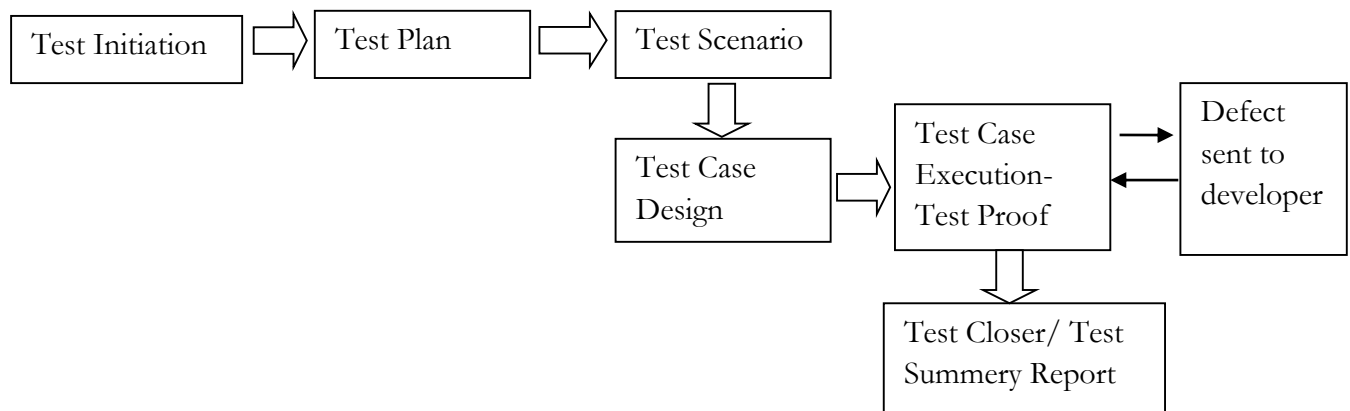
What is STLC?

STLC is a sequence of **different activities performed** by the **testing team** to ensure the **quality** of the **software** or **product**

It's a systematic approach to **validate application** based on the **stakeholder requirement & expectation**

It describe **step by step process** performed by **separate testing team** in order to **validate application**

STLC there are different stages-



Test Initiation

- In my organization testing process is **started with test initiation process**
- In Test initiation, **SM is work**
- In test initiation **scrum master focuses** on
 1. Requirement analysis (Requirement of project)
 2. Scope of project
 3. Risk analysis (Risk involve in the project)

1. Requirement of project

- Requirement of the project means **domain of the project** (on which project domain we are working)
- **Ex.** Banking, Telecom, Healthcare, Insurance, E-commerce etc.

2. Scope of the project

- In this the strategies will be decided to test the functionality of modules present in the project

3. Risk Involve in the project

- Risk occurs in project are
 - Less resources
 - Less test data
 - Lack of knowledge

Test Plan

- In Test plan stage, **test lead will work**
- Test lead will **prepared test plane**
- These test plan will contains **Resource allocation, Job allocation & Estimation**
- Test plan contains -**What to test, Who will test, When to test & How to test**
- **Job allocation / Task allocation**- means testing are selected in that particular project
- **Resource allocation / Team formation**- resources means people are allocated for that particular project based on that selected testing
- **Estimation**- means start to end date of project

Test Scenario

- Having **analyzed requirement document & assigned user stories** as a **tester we identify test scenarios**
- Test scenarios describes **ways to test functionality of an application/ build**
- Test Scenario **derived from User story**
- Test Scenario will defines “**What to test**”
- One Test Scenario will contains / includes **multiples test cases**
- Test Scenario always defines “**high level test cases**”
- Test Scenario always written in **+ve ways**

Test Case Design

- Test cases defines **steps to test functionality of an application/ build**
- Test cases **derived from Test Scenario**
- Test cases will defines “**How to test**”
- Test cases always defines “**Low level test cases**”
- Test cases always written in **+ve ways & -ve ways**
- **Types of Test Cases**
 1. **UI** test cases
 2. **Usability** test cases
 3. **Validation** test cases
 4. **Functionality** test cases
- We derive test cases from the test scenarios but we take help of **user stories & sprint backlog** also

Test cases execution & defect

- Having **review test cases**, & when we **get build** we perform “**sanity testing**” there
- If **build is stable**, we go for “**system & function testing**”
- As a tester will start the **Test cases execution**
- So, during test case execution, if we **found defect** we **assign** it to the **developer**
- If we **got the fix** then we perform “**retesting**” there & after it, if required we perform “**regression testing**” also
- After it, we have to **prepare test case execution report & defect report** & we have to **send** it to the **team lead**

Test summery report

- It is prepared by the **tester**
- In Test summery report will **contain**, for **every US**, how many test cases we have designed (**TCD**), how many test cases we have executed (**TCE**), how many test cases are skipped (**TCS**) and how many **defects locked**
- We have to **send** it to the **team lead**

- **Ex- of Test summary report**

Build Status Report/ Test Report

Tester Name:	
Build No	1
Login Credential	
Browser	Chrome/IE/FF
Test Matrix	
Total no of test cases	200
No of test cases executed	150
No of test cases pending	50
No of test cases pass	100
No of test cases fail	50
No of test cases skipped	10
No of defect reported	20

Test closure report

- **It is prepared by team lead**
- Team lead **check all the reports & check all the process are correct or not** as per the **JIRA tool**
- Test closure report **provides** detailed analysis of **the type of testing carried out, process followed, & the status of defect found**
- To make the test closure report team lead use the **dash board tool**
- This report is in form of **graph**
- After this Team lead prepares test closure report & **sent it to the scrum master**

