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STLC

Software Testing Life Cycle

It is used to test software application to be bug free (or) free from defects.

Why testing is important?

In order to deliver the application to customer as pre their requirement.

Importance of Testing:

- To prevent defect
- Standardized process
- To gain confidence for stakeholders
- Alignment with SDLC

Phases of Testing:

1. Requirement Phase
2. Planning phase
3. Test case Development
4. Environment Setup
5. Execution phase
6. Test closure

I. Requirement Phase:

Team will go through the requirement by SRS document . If it is not clear to them , they can clarify with the client . Team involved in this phase is Quality Assurance.

Document in Requirement phase is : Requirement Traceability Matrix(RTM)

II. Planning Phase:

Testing team head will plan about the cost , number of employees and work culture. Head of the planning phase is Testing Manager.

Document in planning phase : Test plan document

III. Test Case Development:

Here test case will be developed . It is done by testers and they will work on it. Test suite is a type of method which is used to group the test case. Once the test cases met the clients requirement it will move to next phase. Test lead will develop the test case for the application.

IV. Environmental Setup:

Environmental setup will be done by whole testing team. It decides

the platform where the software will be tested. Output of Environmental setup

will be documented as Environment checklist

V. Execution Phase:

Testing team will execute the developed code. By using some of the tools like JIRA , Bugzilla.

VI. Test Closure :

Testing manager and quality assurance team will be involved in this. Once the application is tested , it will be documented.

Document developed in this phase :

Test summary report
Lessons learned document

TOOLS IN TESTING:

1) Test management tools:

Testrail , Zephyr

2)Automation tools:

Selenium

3)Defect Tracking Tools:

JIRA , Bugzilla

4)Performance testing tools:

JMeter , LoadRunner