**SDLC VS STLC PHASES**

SDLC Phases: -

1) Requirement Gathering and Analysis: -

During this phase, all the relevant information is collected from the customer to develop a product as per their expectation. Business analyst and Project Manager set up a meeting with the customer to gather all the information like what the customer wants to build, what is the purpose of the product.

2) Design: -

In this phase, the system and software design documents are prepared as per the requirement specification document. This document is known as SRS document.

3) Coding: -

Implementation or coding starts once the developers gets the design document. The software design is translated into source code. All the components of the software are implemented in this phase.

4) Testing: -

Testing starts once the coding is complete and the modules are released for testing. In this phase, the developed software is tested thoroughly and any defects founds are assigned to developers to get them fixed.

5) Deployment and Maintenance: -

Once the product is tested, it is deployed in the production environment. Then test is done depending on the customer expectation. If the customer finds the application as expected, then sign off is provided by the customer to go live.

After the deployment of a product environment, maintenance of the product if any required is to be done by the developers.

STLC PHASES: -

1) Requirement Analysis: -

In this phase, test team studies the requirements from a testing point of a view to identify testable requirements and the QA team may interact with various stakeholders to understand requirement in detail. Automation feasibility for the testing project is also done in this stage.

2) Test Planning: -

In this phase, a Senior QA manager determines the test plan strategy along with efforts and cost estimates of the project. Moreover, the resources, test environment, test limitations and the testing scheduled are also determined.

3) Test Case Development: -

The test case development phase involves the creation, verification and rework of test cases and test scripts after the test plan is ready. The QA team starts the development process of test cases for individual units.

4) Test Environment Setup: -

In this phase, the software and Hardware conditions are decided under which a work product is tested. It is one of the critical aspects of the testing process and can be done in parallel with the Test Case Development Phase.

5) Test Execution Phase: -

This phase is execute by the testers in which testing of the software build is done based on test plans and test cases prepared. The process consists of test script execution, test script maintenance and bug reporting. If bugs are reported then it is reverted back to the development team for correction and retesting will be performed.

6) Test Cycle Closure: -

This phase is the completion of test execution which involves several activities like test completion reporting, collection of test competition matrices and test results.