SDLC - Software Development Life Cycle

SDLC is a structured process that enables production of high quality, low cost software and in the shortest possible production time. The goal of the SDLC is to produce superior software that meets and exceeds all customer expectations and demands.

Requirements & Planning: Planning for the quality assurance requirements and recognition of the risks involved. It is conducted by the team members with input from all the stakeholders and domain experts. This stage gives clearer picture to the scope of the entire project.

Analysis: Project goals are converted into the defined system functions that the organization intend to develop.

Design: Define the overall system architecture. This phase includes business rules, pseudo-codes, screen layouts and other necessary documentation.

Coding / Implementation: Developers start building the entire application by writing code using the chosen programming language. Tasks are divided into units / modules and assigned to the various developers.

Testing & Integration: Once the software is complete and it is deployed in the testing environment. Testing team starts testing the functionality of the entire system. This is done to verify that the entire application is based on the customer requirement. Once the testing phase is over, no bugs are left then the final deployment process starts. Based on the feedback given by the project manager, final software is released and checked for deployment issues if any.

Maintenance: Once the software is deployed and customer starts using the software, the following 3 activities will occur:

- Bugs: Bugs are reported because of some scenarios which are not tested at all.
- Upgrade: Upgrading the application to the newer versions of the software.
- Enhancement: Adding some new features to the existing software.