

Tutorial 02

01. What is SDLC?

The software development life cycle is the cost-effective and time-efficient process that development teams used to design and build high-quality software.

The goal of SDLC is to minimize project risks through forward planning so that software meets customer expectations during production and beyond.

02. What is the importance of the SDLC process?

It enables the production of high-quality, low-cost software, in the shortest possible production time.

03. Explain the phrases in typical SDLC process briefly.

Planning :- Obtain approval for project, initiate, assess feasibility plan
Schedule.

Analysis :- understand business needs and processing needs.

Design :- define solution system based on requirement and analysis decision.

Implementation :- construct, test, train users, install new system.

Maintenance :- keep system healthy and improve.

Q. Explain the types of SDLC models.

Waterfall model :- It is universally accepted. This is a continuous software development model in which development is seen as flowing steadily downwards. (like a waterfall) through the steps of requirements analysis, design, implementation, testing (validation) integration and maintenance.

V-model :- In this model type testing and the development, the step is planned in parallel. So, there are verification phases on the side and the validation phase is on the other side. V-model joins by coding phase.

RAD model :- Rapid Application Development process is an adoption of the waterfall model. It targets developing a software in a short period. It uses focus-groups to gather system requirements.

Agile model :- This model promotes continuous interaction of development and testing during SDLC process of any project.

Q. What is the testing phase in the SDLC model?

Where it focuses on an empirical investigation in which the results describe the quality of the system.

The phases of software testing cycle is: requirement analysis, Test planing and test case design and development.