

# SDLC Overview

SDLC is known as Software development process. The software development life cycle (SDLC) is a framework defining tasks performed at each step in the software development process. It aims to be the standard that defines all the tasks required for developing and maintaining software.

## Requirements

- Analysis All possible requirements of the system to be developed are clearly defined
- Understood or the requirements are understood from the customer perspective.
- Once all the requirements are documented it is now guided to design the product

## Designing

- The requirement specifications from requirements phase are studied in this phase and system design is prepared.
- System Design helps in specifying hardware and system requirements and also architectural design, logical design of modules, physical product design and final design.
- After designing the architecture it's now been implementing or it's a blueprint for coding.

## Implementation

- It will translate the design into code
- It will first developed in small programs called units. Each unit is developed and tested.
- The designed code in now being tested

## Testing

- In testing it will ensure the software is free of defects and meets requirements
- There are different types of testing such as
  - Unit testing,
  - Integration testing
  - System testing
  - Etc.,
- After the testing and having no bugs, it will be deployed to the end user.

## Deployment

- Once the functional and non functional testing is done, the product is deployed in the customer environment or released into the market.
- Also to enhance the product some better versions are released. Maintenance is done to deliver these changes in the customer environment.