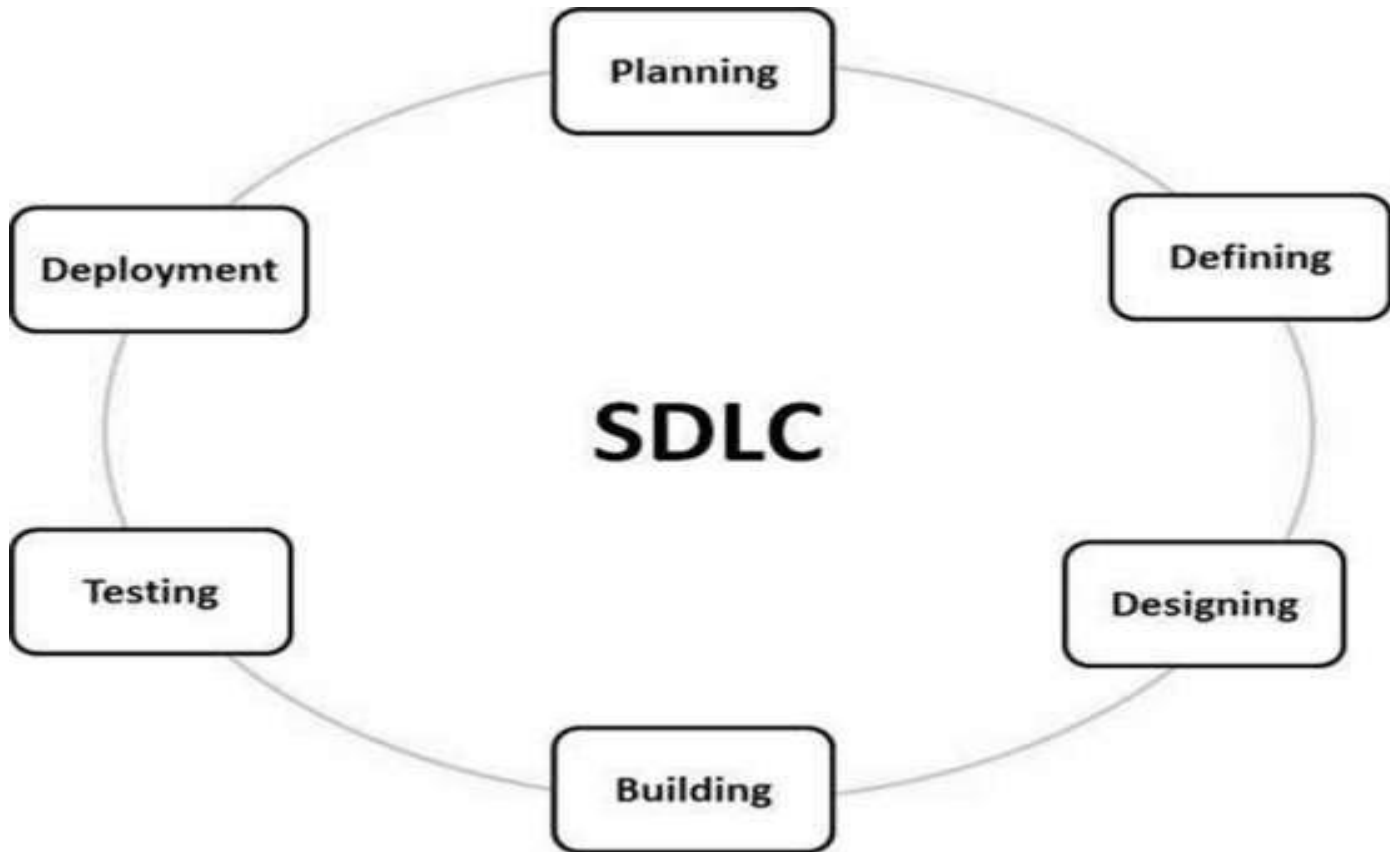## What is SDLC?

SDLC is a process followed for a software project, within a software organization. It consists of a detailed plan describing how to develop, maintain, replace and alter or enhance specific software. The life cycle defines a methodology for improving the quality of software and the overall development process.

Planning

Defining

Deployment

SDLC

Testing

Designing

Building

## Why is the SDLC important?

- It provides a standardized framework that defines activities and deliverables
- It aids in project planning, estimating, and scheduling
- It makes project tracking and control easier
- It increases visibility on all aspects of the life cycle to all stakeholders involved in the development process
- It increases the speed of development
- It improves client relations
- It decreases project risks
- It decreases project management expenses and the overall cost of production
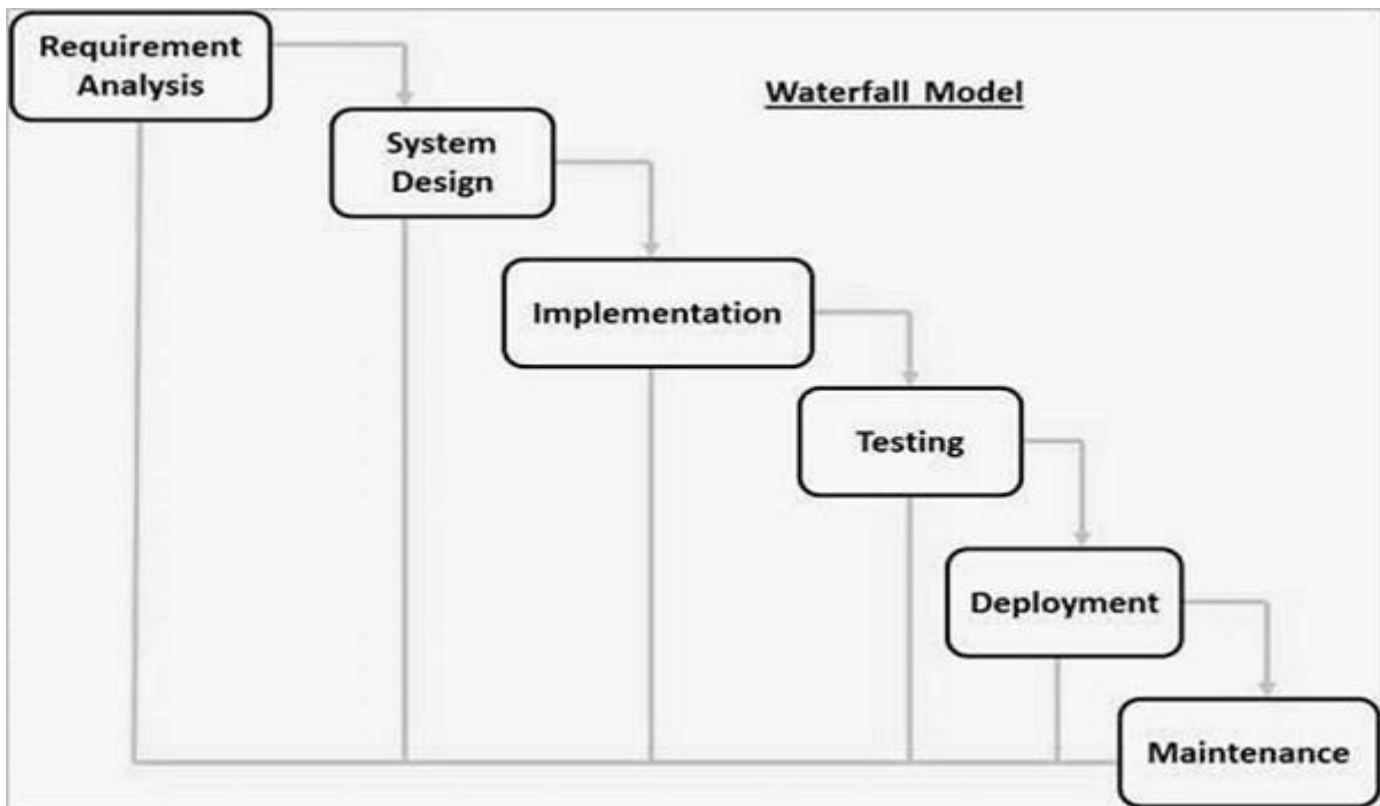-

## How SDLC Works?

SDLC works by lowering the cost of software development while simultaneously improving quality and shortening production time.

# What is the waterfall methodology?

The Waterfall methodology—also known as the Waterfall model—is a sequential development process that flows like a waterfall through all phases of a project (analysis, design, development, and testing, for example), with each phase completely wrapping up before the next phase begins.

# How does the waterfall model work?

In a waterfall model, **each phase must be completed before the next phase can begin and there is no overlapping in the phases**. The Waterfall model is the earliest SDLC approach that was used for software development. The waterfall Model illustrates the software development process in a linear sequential flow.



# What is Agile method methodology?

The Agile methodology is **a way to manage a project by breaking it up into several phases**. It involves constant collaboration with stakeholders and continuous improvement at every stage. Once the work begins, teams cycle through a process of planning, executing, and evaluating

# Where we use Agile methodology?

The Agile methodology was created for **projects where the significant constraints are not well understood**. If your project involves developing a new product, the scope and timeline may be difficult to determine in advance.

# How does Agile works?

Agile is an iterative approach to project management and software development that helps teams deliver value to their customers faster and with fewer headaches. Instead of betting everything on a "big bang" launch, **an agile team delivers work in small, but consumable, increments**