

# What is Software Development?

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Software Development is the process of transforming customer requirements into a complete software product.



# Software Development Life Cycle

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In broader terms, software development involves the following stages:



Requirements

Design

Implementation

Verification

Maintenance

# Software Development Life Cycle

Requirements

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Maintenance

This is the most important phase in the software Development lifecycle. In this stage, the requirements are Gathered from the customers and the requirements are then analysed to ensure their feasibility.



# Software Development Life Cycle

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Requirements

Design

Implementation

Verification

Maintenance

Once the requirements are received, the architect transforms these requirements into technical specifications and plan the software components which have to be designed



# Software Development Life Cycle

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Requirements

Design

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The specifications are then passed on to the developers which create the application based on these specifications



# Software Development Life Cycle

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Requirements

Design

Implementation

Verification

Maintenance

Once the development work is done on the application. It is verified by a group of testers to map the application's functionalities with the specification given by customer



# Software Development Life Cycle

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Requirements

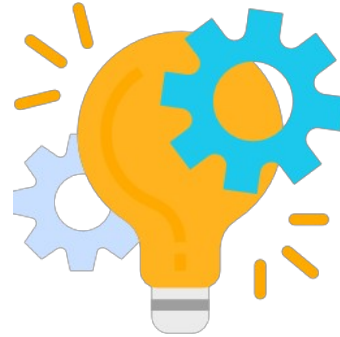
Design

Implementation

Verification

Maintenance

Once the code is verified, it is pushed to production. Post this, the application is updated with any future enhancements or optimizations, if and when required.





# SDLC Models

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Since the time software development started, various software development models have been curated which implement SDLC. Each of these models solve problems that existed before.

Traditionally, there have been 3 major software development models that most companies follow:

Waterfall Model

Agile Model

Lean Model