

Day - 02

Software Development Life cycle  
is a structured process used by  
development team to produce  
high quality software in a  
systematic, efficient, and cost effective  
way.

SDLC is process of planning,  
creating, testing, deploying and  
maintaining a software system.

It defines stages that are  
involved in software development.

phases of SDLC

lets take example of "Online  
food delivery system"

1) Requirement Gathering and  
Analysis

→ collect information from  
stakeholders (client, users, market).

→ understand what system  
should be.

→ e.g stakeholders say "users  
should be able to register,  
browse, place orders and make  
payment."



## 2) Planning :

→ project timeline, budget, resources, and risk analysis are planned.

→ eg : Decided to use MERN stack, cloud hosting on AWS, and third party APIs for maps and payments.

## 3) System Design :

→ create architectural design, UI/UX, database schema, and system workflow diagram.

→ Design both high level and low level designs.

→ eg- Design user interface, login flow, restaurant listing page, and database table for users, orders, payments etc.

## 4) Implementation - Development

→ Actual development of software.

## 5) Testing

→ Testers verify working of product.

→ QA team test.

## 6) Deployment

→ Deploy to production environment.



How  
the

DevOps  
SDLC

Comes into

→ DevOps and integrated development (Dev) operations (Ops) teams to automate, monitor, and improve all stages of SDLC.