

# Software Development Life Cycle

## **What is the SDLC?**

The SDLC works by reducing the costs of software development whilst being able to uphold the quality and also lowering the production time. The SDLC goal is to produce software that meets and exceeds all customer expectations and demands.

## **Requirements of the problem**

In this stage of work the team identifies, gathers and defines current problems, requirements, requests. Some activities related to the requirement phase can involve creating software specifications such as documentation, issue tracking and project or product planning.

## **Design**

Making decisions regarding the architecture and making the software solution. This involves designing documents, coding and discussing the tools that will help the team meet the software requirements specification.

## **Constraints**

This stage is when the actual development starts and it's important that the team stays to the agreed blueprint. And having proper guidelines in place about the code style and practices.

## **Develop code**

Developing a code in a SDLC is the stage where the team would test the issues and deficiencies and the fixes the team would need to make and want to make sure the code meet the requirements.

## **Test**

In this stage this is where the team would test all the different features by checking and fixing potential bugs that wouldn't be noticed by a client.

## **Software deployment**

This stage of the team is to deploy the software so that users can use the product. However this doesn't mean that the software is fully finished and will always need regular updates to maintain having little mistakes to be shown. Most organisations have it as a testing or staging environment.