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## **SDLC**

### **SDLC**

Software Development Life Cycle which help to complete the project with high quality and low Cost in short span of time limit. there are 7 Phases in the SDLC .

it useful for the cost estimation ,time management in the fast way of utilization, understanding the requirements.

There are 6 phases in the given SDLC process. they are

Phase 1 — Requirements Analysis.

Phase 2 — Design.

Phase 3 — Coding.

Phase 4 — Testing.

Phase 5 — Deployment.

Phase 6 — Maintenance.

this are the 6 types of phases.

### **Phase 1:**

Requirement Analysis is the process of gathering the needed requirements from the clients side. this process can be done by the Business analyst, who plays the major role they serve as a bridge between the Business Stockholders and development team.

where the SRS Documentation plays the role in it. in this stage, the basic project is designed with all the available information.

## **Phase 2 — Design.**

In the design phase requirements gathered can be converted into the Structured blueprint for the developing the system. Create the plan for the developing the project. Hence, with the requirements defined in SRS, multiple designs for the product architecture are present in the Design Document Specification.

Here the SRS document plays the major role.

## **Phase 3 — Coding**

After the completion of the given Design phase, which is the next stage where the actual project kick started by the developer using the DDS document understand their needs of client. they build the code for application using the compliers.

## **Phase 4 — Testing**

After the coding stage, the testing stages is comes place where they are test the code which was build by the developer. In this stage involves the unit testing, integration testing, system testing, acceptance testing at this stage, all the probable flaws are tracked, fixed, and retested. This ensures that the product confronts the quality requirements of SRS.

## **Phase 5 — Deployment**

once the testing phase is completed successfully which has no bugs or error, then the software is deployed. this phase is know as Deployment phase.

## **Phase 6 — Maintenance.**

when client starts using the projects, then the real issues come up and requirements to be solve is the most import thing in the software. procedure of proper maintenance of the software that developed.

## **Models in the SDLC**

Waterfall

Agile

Spiral

RAD

V model and erts are the types of the models used in the SDLC