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SOFTWARE DEVELOPMENT LIFE CYCLE – SDLC

Software Development Life Cycle is a process for developing a high-quality software that meets or exceeds customer expectations in a pre-defined time and cost. It consists seven phases.

* Planning Phase
* Requirement Analysis Phase
* Design Phase
* Development Phase
* Testing Phase
* Implementation/Deployment Phase
* Maintenance Phase

1. **Planning Phase**

* Customer meets product owner
* Defining the system to be developed
* Setting the project scope
* Developing the project plan, time and cost

1. **Requirement Analysis Phase**

* Product owner and project team meets
* Defines the detailed business requirements clearly to satisfy the customer expectations

1. **Design Phase**

* Design the technical architecture
* Required software, hardware and telecommunication equipment
* Programming languages, tools and frameworks
* System server design, database relationship
* Supported browsers, mobile systems
* Design the system models (graphical representation of the system)
* Design the test plans

1. **Development Phase**

* Build the technical architecture
* Build the databases and programs
* Developers start writing codes
* Testers start writing test cases

1. **Testing Phase**

* Testers start writing the test conditions according to the requirements
* Performs testing with expected results and customer perspective
* Verifies system works each and every time and meets requirements
* Find bugs and reports to the developers

1. **Implementation/Deployment Phase**

* Implementation of the system in to production
* Installing the hardware and server
* Setting up the databases, links for the software to go live to real users
* Writing user documentation
* Providing training

1. **Implementation/Deployment Phase**

* Building customer support
* Making sure system up and running all the time
* Maintain the servers
* Detect bugs and fix it

**SDLCS Methodologies**

* Waterfall Model
* Agile Model
* Prototyping Model
* V-Shaped Model
* Rapid Application Model (RAD)
* Spiral Model
* Devops Model
* Joint Application Development (JAD)
* Iterative Model