**What is SDLC?**

* SDLC refers to Software Development Life Cycle.
* SDLC is the software development process planned to develop high quality products that meet user expectations.
* SDLC is teamwork aimed at a common goal. At each stage, another teammate takes role.
* Coordination is achieved through meetings held together and project follow-up programs.

**Benefits of SDLC**

* It helps to follow and control a project.
* It gives a chance to employer and investor to see the whole planning and process.
* Planning and meetings increse the speed of project creation and development.
* It strengthens the communication of the whole team.
* It reduces the risks of the project.
* It simplifies management and documentation.
* It helps employees to understand what to do and why need to do.
* It helps all parties agree on the project in advance and sees a clear plan to achieve that goal
* It enables all parties to see required costs and resources.

**SDLC Phases**

1. **Planning and Requirement Analysis**

* It’s a fundamental and the most important phase of SDLC.
* Experts take into consideration of thoughts of the costumer.
* Thoughts of the costumer is used to plan the basic project planning.
* Quality assurance requirements and identifying the risks associated with the project is also done during the planning phase.
* In order to successfully implement the project with minimum risks, technical approaches are planned in this phase.

1. **Defining Requirements**

* The next step after requirement analysis is to clearly define and document the product requirements.
* **Business Requirements Document (BRD**) describes a company’s *high-level* goals they’re trying to achieve or needs they’re trying to fulfill by creating a service or a product. A BRD is always prepared by the business analyst.
* **The Functional Requirements Document (FRD)** is a formal statement of an application’s functional requirements. It serves the same purpose as a contract. Here, the developers agree to provide the capabilities specified. The client agrees to find the product satisfactory if it provides the capabilities specified in the FRD.
* **Software Requirement Specifications (SRS)** document is a detailed and structured requirements document that contains the functional requirements and non-functional requirements that the software must fulfill.

1. **Designing The Product Architecture**