### What is SDLC?

SDLC stands for Software Development Life Cycle. A Software Development Life Cycle is essentially a series of steps, or phases, that provide a model for the development and lifecycle management of an application or piece of software.

SDLC is the process consisting of a series of planned activities to develop or alter the software products.

### Benefits of the SDLC Process

The intent of a SDLC process it to help produce a product that is cost-efficient, effective, and of high quality. Once an application is created, the SDLC maps the proper deployment and decommissioning of the software once it becomes a legacy. The SDLC methodology usually contains the following stages: Analysis (requirements and design), construction, testing, release, and maintenance (response). Veracode makes it possible to integrate automated security testing into the SDLC process through use of its cloud based platform.

1. Requirements Gathering:

In this phase we gather all the requirements **from the client**, i.e. what are the client **expected input, output**……

1. Analysis:

In this phase based upon the client requirements we prepare one documentation is called “**High Level Design Document**”. It contains Abstract, Functional Requirements, Non Functional Requirements, Existing System, Proposed System, SRS,………

1. Design:

It is difficult to understand the **High Level Design Document** for all the members, so to understand easily we use “**Low Level Design Document**”. To design this document we use **UML** (Unified Modeling Language). In this we have Use case, Sequence, Collaboration……..

1. Coding:

In this phase we develop the coding **module by module**. After developing all the modules we **integrate** them.

1. Testing:

After developing we have to check weather client requirements are satisfied or not. If not we are again going to develop.

1. Implementation:

In testing phase if client requirements are satisfied, we go for implementation. i.e. we need to deploy the application in some server.

1. Maintenance:

After deployment, if at all any problems come from the client side; we are providing maintenance for that application.