

# Software Testing

**Information System:** An information system is an electronic device which is capable of taking inputs, process it and giving outputs accordingly. An information system can be any devices that are capable of taking decisions. Ex: Phones, PC, Laptop etc.

**SDLC:** The SDLC stands for Software development life cycle or also known as Application development life cycle. It is the process for planning, creating, testing and deploying information system. Followings are the stages of software development life cycle.

- **Requirement Collection and Planning:** Requirement is the first stage in the SDLC process. It is conducted by senior team members with input from all the stakeholders and domain expert from the industry. Recognition of the risk involved and finalizes the necessary timeline to finish the work. Here we collect the data required, scrutinized and detail analysis of data will be done. Once the requirement analysis has been done the very next step is checking for the feasibility in multidimensional ways like Economic feasibility, legal feasibility and technical feasibility.
- **Design:** During design, we described the desired system features through hierarchy diagrams, screen-layouts, ER-diagrams, and flow diagrams.
- **Coding:** In this phase, developers start building the entire system by writing code using the chosen programming language. During this phase, tasks are divided into unit of modules and assigned to various developers.
- **Testing:** Here testing teams checks that the application or software working accordingly. During this phase QA/testing teams may find some bugs which they share with developers. Developers after fixing the bug, send back to tester to verify it.
- **Installation:** Based on the feedback given by the project manager, the final software is released and checked for the deployment in the system.
- **Maintenance:** Once the system is deployed and customer start using the developed system, than following are the instances that can occur.
  - ❖ Bug fixing
  - ❖ Upgrading
  - ❖ Enhancement by adding additional features

