

* SDLC:- Software Development Life Cycle.

- SDLC model is used for developing software application. It is generalised process.
- Stages of SDLC is as follows:-

1) Information Gathering:-

- BA (Business Analyst) will collect all requirements from the clients.
- BA will prepare one document called BRS.
- BRS stands for Business Required Specifications.
- For eg. Flipkart clients:- Requirements are like search options, categories, notifications, carts, payments etc.
- BRS is having overview of project.

2) Analysis:-

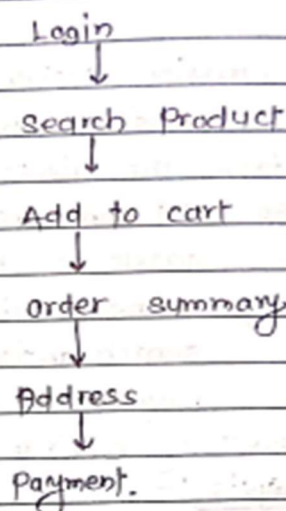
- BA will prepare another document known as SRS.
- SRS stands for Software Required Specifications.
- SRS is also known as FRS, Functional Required Specification.
- SRS contains detailed requirement of project.
- SRS is prepared with Reference of BRS.
- Every functionality elaborated in SRS.

* SRS depends upon 3 factors:-

- a) Functional Requirements:- Detailed information of each functionality has been decided in this.
eg. login to page/ Flipkart:- Sign up, login, Registration, Email, First & last name, submit, clear, cancel, etc.
- Each functions are specified and well decide.

b) Functional flow diagram:-

- It is step by step execution of application.
- eg. Flipkart client. \Rightarrow open flipkart.



c) Screenshot / Snapshot:-

- It is graphical representation of project.
 - It is visualisation of functionality of application.
 - It is an approval taken from clients to proceed further.
- IRIS tool is used.

3) Design:-

- focused on design of application with the help of SRS document.
- There are two types of Design:-

(i) High-level Design:-

- Architecture is the responsible person.
- focused on Regularly / continuous used functionality.
- Main modules should be priorities.

Main modules \Rightarrow e.g. Home page, search option, categories, etc.

ii) Low Level Design:-

- ① UI developer is responsible person.
- ② Frequently used functionalities will be focused.
- ③ submodules functionalities depends on main modules

eg. contact us, about us, setting, etc.

4) Coding / Development:-

- ① This is done by developer.
- ② Two stages of development.

(i) FED:- Front End Development.

- ① This is done by UI developer.
- ② eg. Logo, home page, categories..

(ii) BED:- Back End Development.

- ① Responsible person DBA (Database Administrator)
- eg. first name, last name, password etc.

5) Testing:-

- ① To check correctness and completeness of software w.r.t. SRS documents.
- ② Tester is responsible person.
- ③ 3 types of Testing.

(i) WBT (White Box Testing):-

- ① Unit level testing.
- ② For performing WBT, coding knowledge is required.
- ③ WBT is performed by developer before approaching testers (one time checked).
- ④ Developers will focused on only positive scenarios.

- (ii) BBT (Black Box Testing)
- performed by testers
- It is also known as system & functional testing.
 - Tester is responsible person.
 - All types of testing has been done in this.
 - They will focus on positive as well as negative scenarios.
 - check internal functionalities depend on external functionalities.

- (iii) GBT (Gray Box Testing) :-
- performed by developer & tester
- It is combination of WBT + BBT.
 - Focused on both +ve & -ve scenarios.
 - For performing GBT, coding knowledge is required.
 - If any issue found then GBT tester will fix it at its level.

6) Maintenance :-

- It is a part of service delivery
- It should be technical / Non-technical.

SDLC

1) Requirements collection

