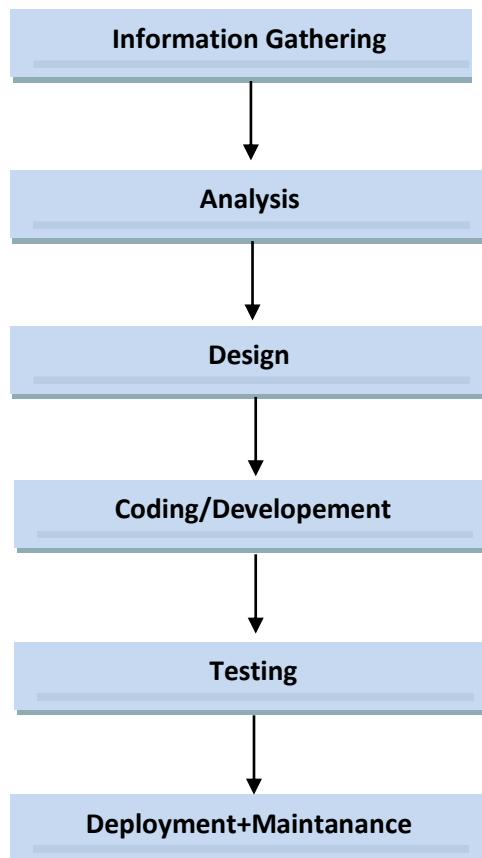


SDLC(Software Development LifeCycle)

- **SDLC:** This is the generic process for developing any software, Also it is the systematic approach to build the software as per the customers requirement.
- **Phases Of SDLC:**



1. Information Gathering:

- Business Analyst (**BA**) is responsible for the **information gathering**.
- In this phase BA collects all information related to the Project and create a **BRS(Business Requirement Specifications)** Document
- **BRS** document consist of All the information(**High Level Information**) related to the project
- We can say BRS is the **bridge** between **Client and BA**.

2. Analysis:

- In this phase BA plays important role for conversion of **BRS to SRS/FRS**
- **SRS (Software Requirement Specification)**
- **FRS(Function Requirement Specification)**
- **This Documents are created by taking the reference of the BRS Document.**

Difference between BRS and SRS-

1. BA prepare an **BRS** doc which consist of high level requirements of the project

EX- Ecom Site

Requirements- Sign Up Page, Home Page, Contact Page, Links..

2. SRS document provide the **detailed information** related to the project

EX- Ecom Site

Requirements:

Sign Up Page- Page should have **User Name** and **Password** Fields

This field should be in the form of **text box** and it can accept maximum **10 char**, Password field can accept **alpha numeric** char with the minimum **1 special** char. Also the sign up page consist of **login button** and if the user tried with the invalid credentials then he can see the warning message.

BRS (Business Requirement Specification)

SRS/FRS-

Functional Flow Diagram	Functional Requirements	Snapshot/Screencast
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Functional Flow Diagram:

Flow of the software as follow- (Ecom Site)



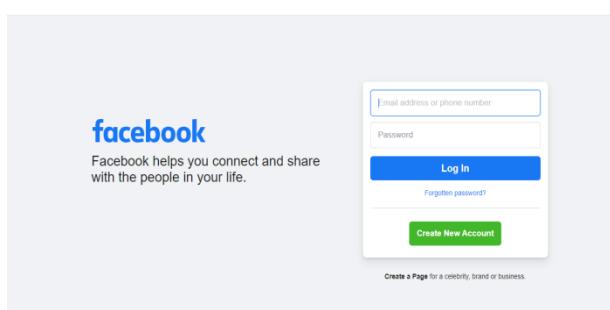
Functional Requirements:

2.Ex- Select Category: if user search for a iPhone then result shoud show iPhones only, Result can be for 64GB/128GB/256GB and for differnt colours
Search result not show other company mobile as we are searching only for iPhone.

Snapshot:

- BA creates the screenshot/screencast with the help of **IRise tool**
- It is the visualization of the functionality before the developement of the product
- Snapshot gives an idea to the developer that how the software looks like.

Sample Login Page:

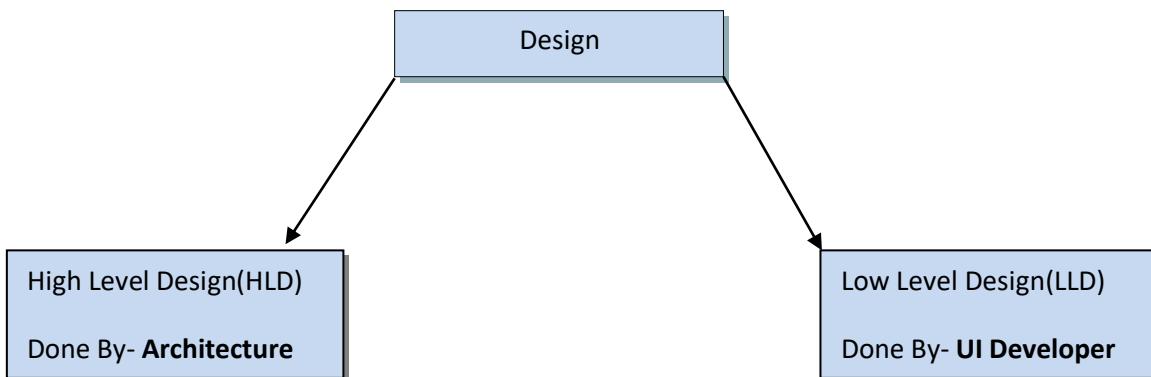


Sample Home Page:



3.Designing:

- It is done by the Architecture and UI Developer
- In designing phase Architect and UI developer, take care of the HLD(High Level Design) and LLD(Low Level Design) respectively.
- LLD- are done with the help of **snapshot** provided in the SRS/FRS document.



High Level Design:

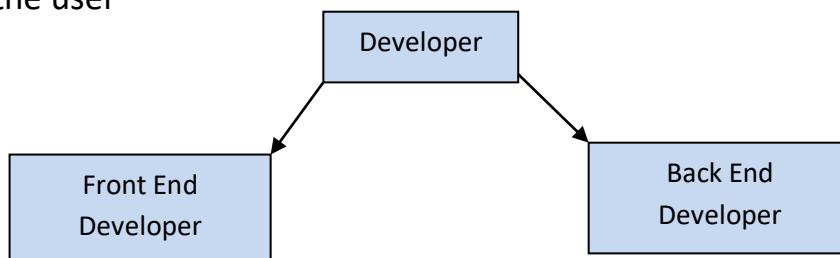
- **HLD:** It is done by the **Architecture**.
- It contains **Design of working of main module**.
- Also it contains **Relation and Dependency** of the main module.

Low Level Design:

- **LLD:** It is done by the **UI Developer**.
- It contains **static logic of every sub module**
- In LLD, **module dependency are created with the reference of the HLD**

4.Coding:

- With the help of SRS Doc. coding is done by the **Developer**
- Developer writes the program wrto the functionality for the Application
- Program is a set of instruction to perform the specific action performed by the user

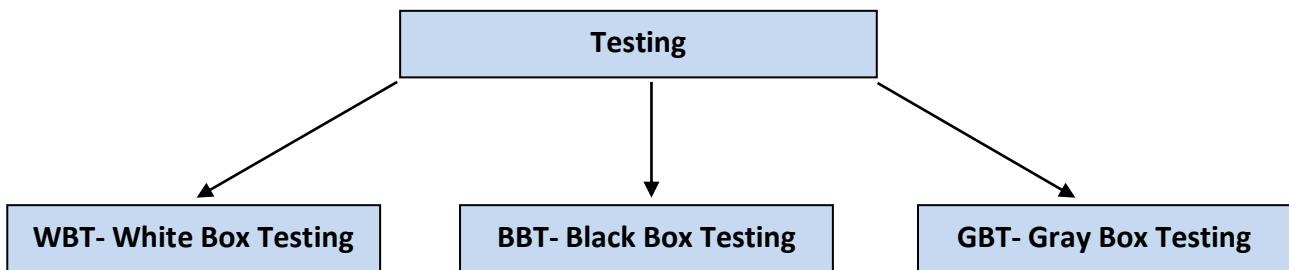


Front End Dev developed the UI
Functionality, Functional Flow

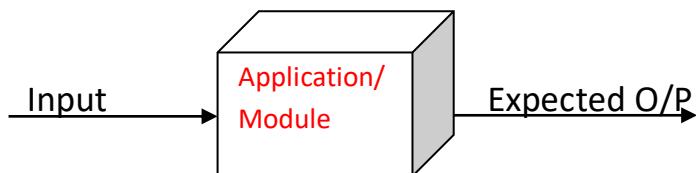
Back End Dev developed the Data
Management Flow, Data
Gathering, Data Security

5. Testing:

- Testing is a process which ensure the correctness and completeness of the functionality wrto the requirements(BRS/FRS)
- In this phase we ensure that the application/software is bug free.
- In this phase we check the Functional behaviour, Performance, UI behaviour, build/application quality.



WBT:



- WBT performed by the **developer**, As they are **aware** about the internal structure/ **Coding knowledge** of the application.
- While performing the WBT dev. Consider **only positive scenarios**.
- WBT is also known as **Unit Level Testing**

BBT:



- In this testing **Internal Structure** is **hidden** from the **Tester/us**.
- According to the user requirements mentioned in the BRS/FRS we test the application/software.
- In this testing **Coding Knowledge is not required**
- In BBT we check the **positive** as well as the **negative scenarios**, to make sure the application/software is bug free.

GBT:

- This is the combination of the **WBT** and **BBT**. (**GBT = WBT + BBT**)
- In GBT tester should have the coding knowledge, While performing this testing we check the positive as well as negative scenarios.

6. Deployment/Maintenance

Deployment:

- After the development and testing we ensure that the application/software is working as expected.
- Once the testing done we provide **end to end functionality demo** to the **customer** before the application/software delivery
- Also we provide **User Manuals, Slideshow, Videos** for the better understandings.
- Once the Client/Customer approve it, Then we deliver that product to them.



Maintenance:

- After the product delivery, we need to take care of the issues/bugs logged by the client.
- For taking care of it we have **KPO** and **BPO** teams.
- **KPO:** These are the **Technical Experts** which handles the clients problem.
- **BPO:** These are the first person who directly interacted with the customers/clients issue. They are non tech / intermediate persons.