

# Software Engineering Assignment

## MODULE: 1(SDLC)

### ● What is software? What is software engineering?

Answer: Software is a collection of Program, Data and Instruction that tell a computer how to perform specific tasks.

Software Engineering means Development of Software Systems, Design, Testing, Deployment and maintenance engineering principles for, Includes methods and practices.

### ● Explain Types of Software

Answer: Types of Software

1. System Software: What runs your system is called system software.  
For Example: Operating System like Windows, Android, Linux, MAC OS etc.
2. Application Software: The application you use is called application software  
For Example:
  - A) Mobile Application: Which works only in mobile like Instagram, WhatsApp, snapchat etc.
  - B) Web Application: A web application that accesses a webpage is called a web application like web browser (Chrome, Firefox, edge etc.)
  - C) Desktop Application: Which works only in laptop or pc is called Desktop Application like MS Office, Notepad etc.
3. Programing Software: Possible the communication between human and machine is called Programing software  
For Example: Compiler

### ● What is SDLC? Explain each phase of SDLC

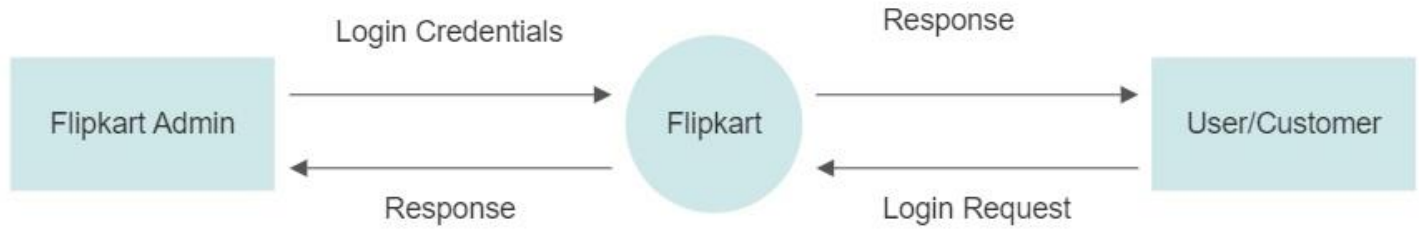
Answer: SDLC is Software Development Life Cycle. The software that is to be developed will come from where it will work in which phases

- Phase Of SDLC:

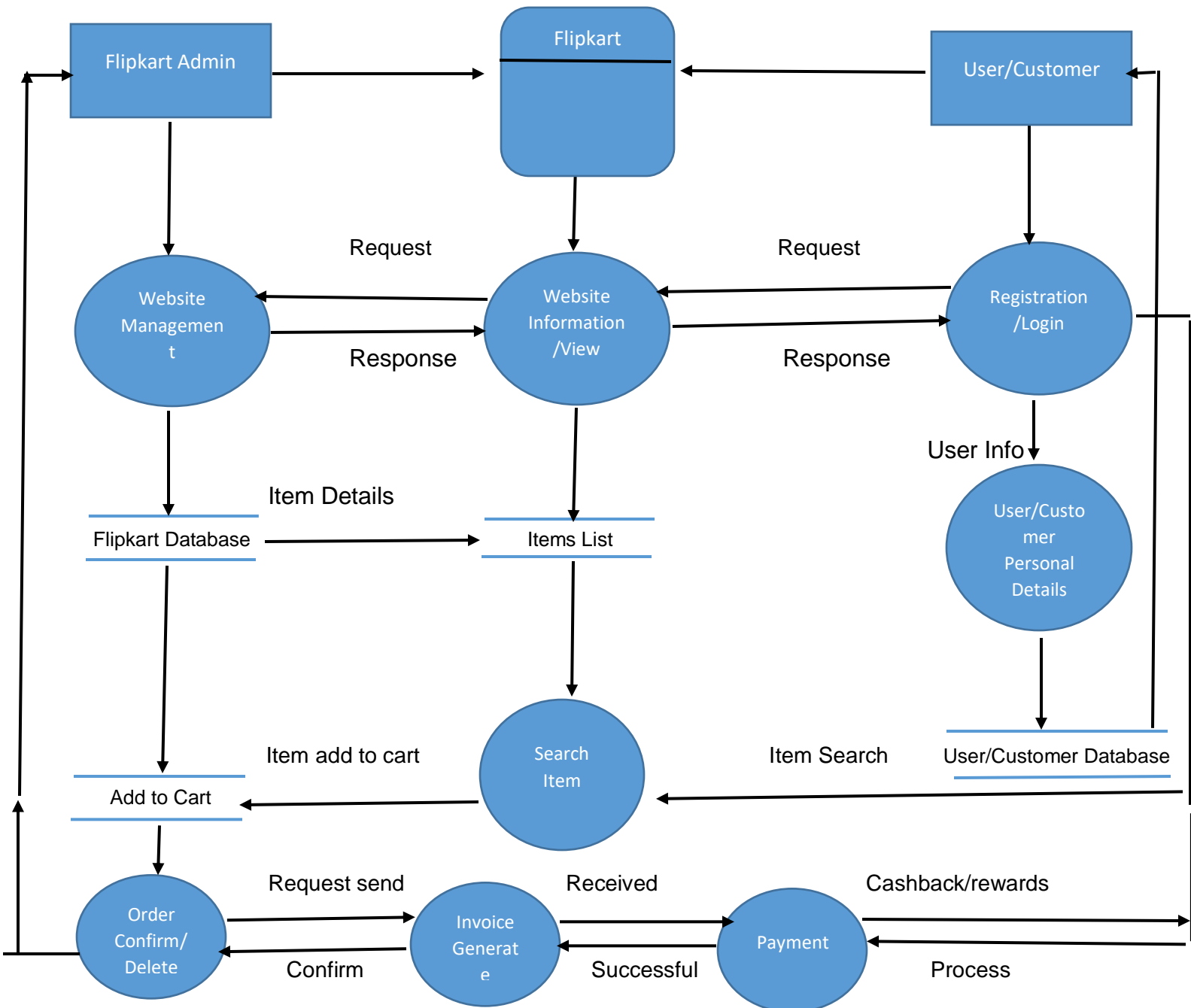
1. Requirement Gathering :  
When we develop the software, the software is planned based on the requirement of the user. Planning to build a project
2. Analysis :  
When we develop the software as per the user's request or requirement, we will check about that software where other similar software is available in the market. Conducting Project Requirement Analysis like marketing.
3. Design:  
After the analysis, a blueprint of the project will be created and the design will be decided accordingly. It means designing.
4. Implementation:  
What we do in the backend i.e. coding to build the project is called implementation.
5. Testing & Integration:  
Now the project is tested as per what we had to do to check whether it will check everything i.e. any error or not saying that it is going to check here.
6. Maintenance:  
Software maintenance is when the software needs to be updated by the user after the software is developed.

- What is DFD? Create a DFD diagram on Flipkart  
Answer: DFD is Data Flow Diagram

DFD Diagram on Flipkart



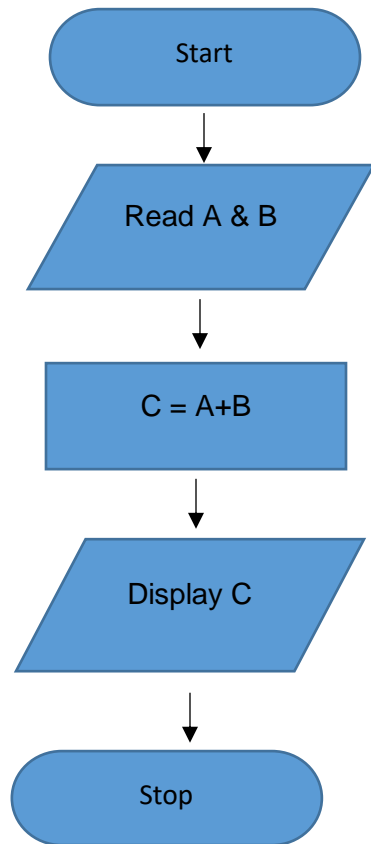
Level 1 DFD



Level 2 DFD

- What is Flow chart? Create a flowchart to make addition of two numbers  
Answer: Flow chart that shows the flow of a process within a flowchart is called a flowchart.  
Types of Flow chart – 1) Linear or Sequence 2) Branching 3) Looping and 4) Taking Umbrella

**Linear or Sequence Flowchart to make addition of two numbers**



- What is Use case Diagram? Create a use-case on bill payment on paytm.

Answer: A use case diagram is a type of behavioral diagram in UML (Unified Modeling Language) that depicts the interactions between various actors and a system under consideration.

### Use-case on bill payment on paytm.

