SOFTWARE ENGINEERING

Q1. What is Software? What is Software engineering?

Software:

Ans: software is a set of instructions (Input), to be executed (process), for specific task(output).

• Software engineering:

Ans: Software engineering is a process to develop any software based on the engineering principles.

Q2. Explain types of software?

System Software Driver Software Software Software Software Software Software Software Software

1)System Software :in build system, this software is no need to install or Download. It is already provided by the system itself.

EX: Notes, Web browser, Google etc..

2)Application software : This Software dependent to user or Developers. Need to install or Download in your system to use and it provided by developers.

EX: Instagram, Games, Telegram etc..

3) Driver Software : This Software communication between application and hardware and sharing high software.

EX: Audio Driver, Video Driver, Graphic Card etc...

4) Middleware : communication or mediates between System Software and Application Software.

EX: Ms Word, Excel etc..

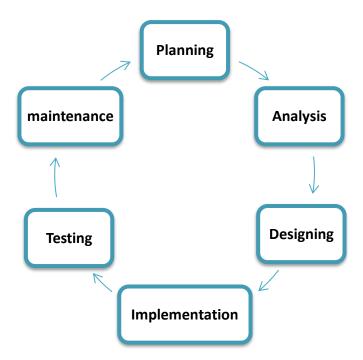
5) Programming Software : Developers use to this software to write, read and Execute a code .

EX: Visual Studio Code, Dev C++, Anaconda etc..

Q3. What is SDLC? Explain each phase of SDLC?

Ans. SDLC full form as a Software Develop life cycle as a step by step approach to Developn any software with Quality, in shortest time and within the estimated budget.

Each Phase of SDLC:



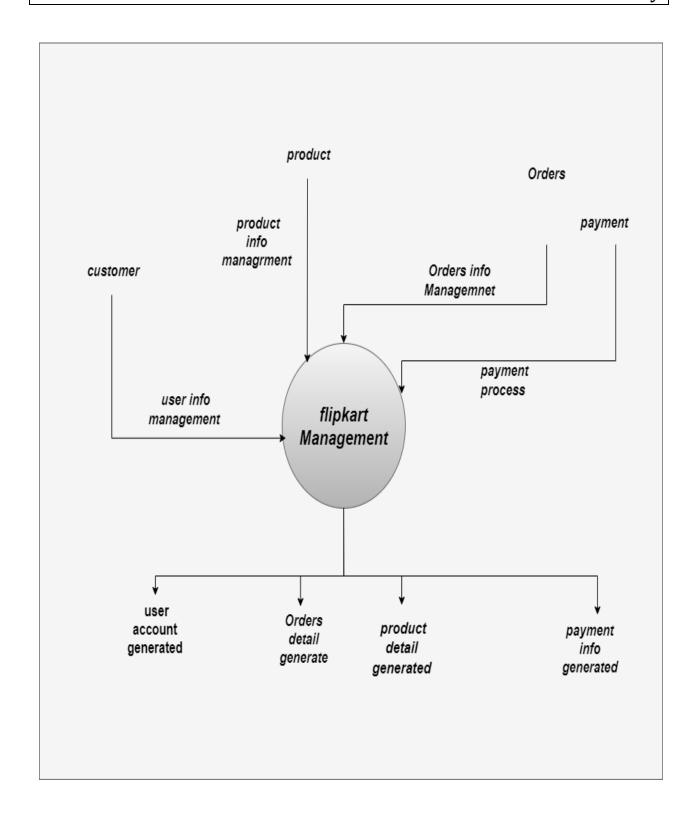
- 1) planning / requirement gathering : The developer collects Requirements from the client or Company to paln the project.
- **2) Analysis :**Developer Analysis the requirements and creates a Software Requirements (SRC) , ensuring no changes.
- **3) Designing :** developer work from designing , different3d model , ER diagram , User Case diagram , flowchart , data flow diagram etc..
- **4) Implementation/development/building :** developer work from backend side a project implementation or development.
- **5) Testing :**The Developer meets the client to tested the project and client check the work is correctly success.
- **6)Maintenance :** maintain the project according to the developer Time prior.

Q4. What is DFD? Create a DFD Diagram on Flip Kart?

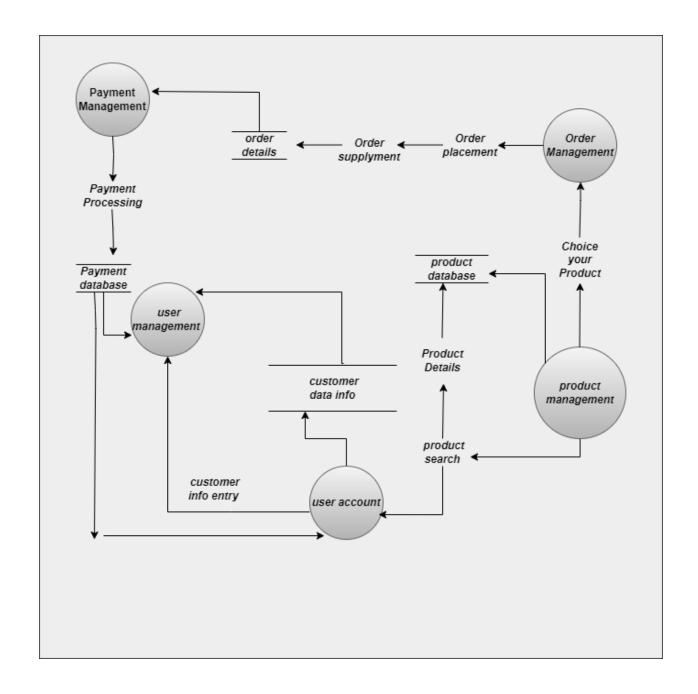
- DFD also Know as data flow diagram.
- A graphical tool, useful for communicating with users, managers and other personnel.
- DFD also known as Bubble Chart.

Components of DFD:

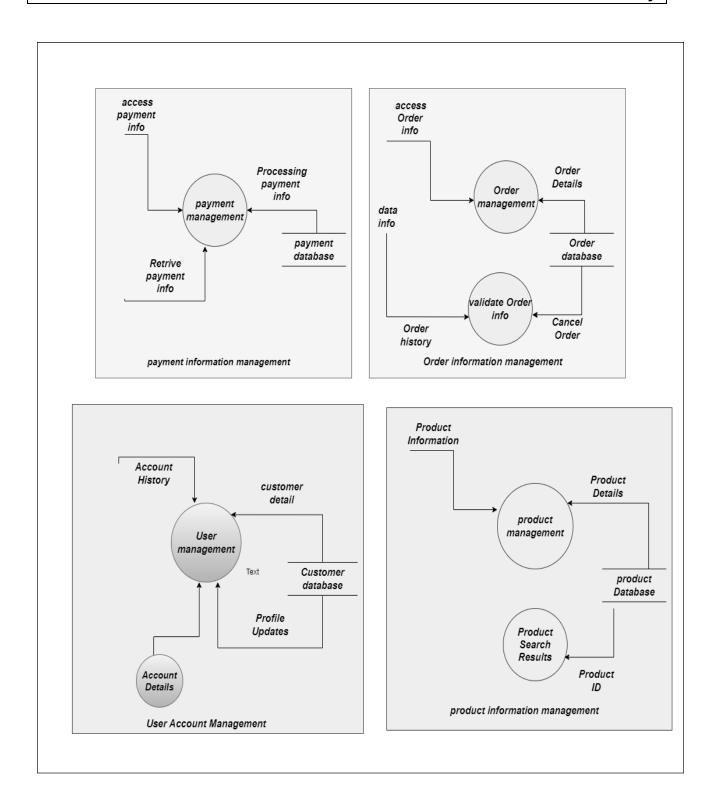
- Process
- Data Flow
- Data Store
- External Entity



Level-0 DFD of Flip Kart Management system



Level-1 DFD of Flip Kart Management system

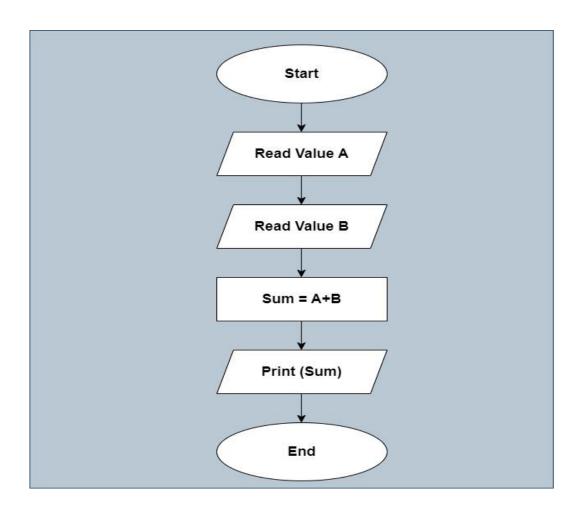


Level-2 DFD of Flip Kart Management system

Q5. What is Flow Chart? Create a Flow Chart to make addition of two Numbers?

Ans. A Flow Chart is a Diagram that Graphical representation of algoritham.

- A Flow Chart is use to symbols, Shapes and Arrows in process.
- Flow chart is step by step process and solve a task to easily understand and make a decision.



Q6.What is Use Case Diagram? Create a use case diagram On Bill payment on paytm?

Ans. Use Case diagram is a Sequence of Actions Performed by the Actors.

- Use Case Diagram is use to how process is solve in Sequnace of steps in your task.
- Mainly 3 types of components:
 - > Actor
 - Use Case
 - Association

