

Software is a program or set of programs containing instructions that provide desired functionality. Engineering is the process of designing and building something that serves a particular purpose and finds a cost-effective solution to problems.

What is Software Engineering?

Software Engineering is the process of designing, developing, testing, and maintaining software. It is a systematic and disciplined approach to software development that aims to create high-quality, reliable, and maintainable software.

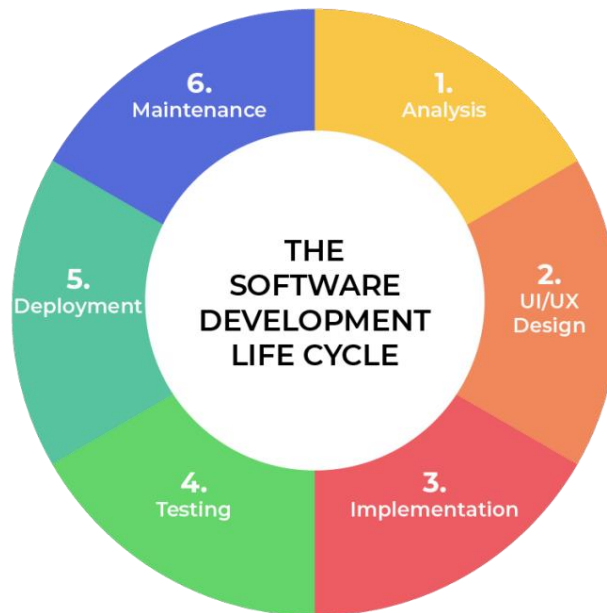
Types of software

System software: These types of software are essential in managing the whole computer system. So basically a system software manages the computer's basic functionality, including the disk operating system, file management utilities and operating systems. Some of the common types of system software include:

Application software: Application software or an app performs, especially for the end-user. Unlike system software, this one keeps the systems running such as the operating system, industrial automation, software as a service application, computational science software, and game engines. End-users can easily interact with application software because of the user interface.

What is SDLC: The software development lifecycle (SDLC) is the cost-effective and time-efficient process that development teams use to design and build high-quality software. The goal of SDLC is to minimize project risks through forward planning so that software meets customer expectations during production and beyond.

Phase of SDLC:

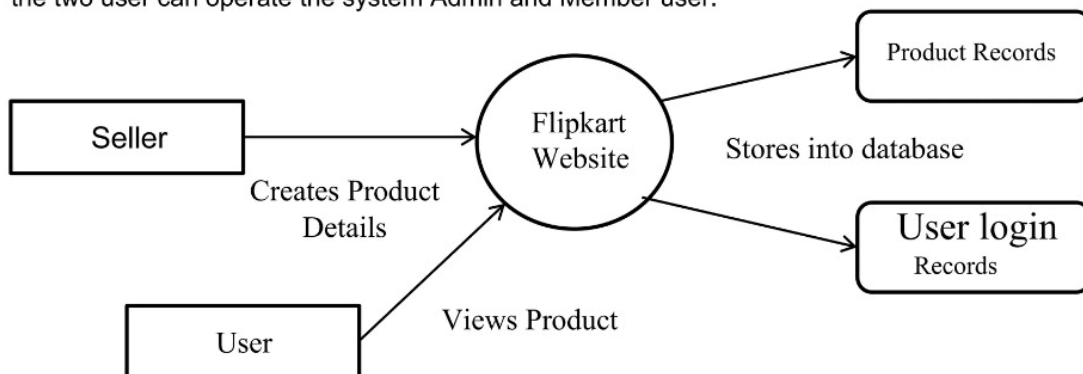


What is DFD?

A **data flow diagram** (DFD) is a graphical or visual representation using a standardized set of symbols and notations to describe a business's operations through data movement.

5.1.2 Context level DFD – 0 level:

The context level data flow diagram (DFD) is describe the whole system. The 0-level DFD describe the all user module who operate the system. Below data flow diagram of online shopping site shows the two user can operate the system Admin and Member user.



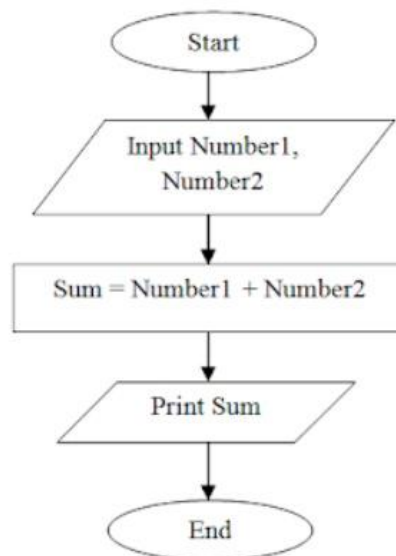
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What is flow chart?create flow chart to make addition of two numbers?

Flowchart to Add two numbers.

Flowchart to Add two numbers

This flowchart outlines the essential steps required to add two numbers.



What is use case diagram?create a use - case on bill payment on paytm.

A use case diagram is a way to summarize details of a system and the users within that system. It is generally shown as a graphic depiction of interactions among different elements in a system.

