

Software Engineering Assignment

MODULE: SE – Overview of IT Industry

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1. What is software? What is software engineering?

Ans. A software is a set of instructions that helps execute a specific task or application. Software engineering is a branch of engineering that deals with developing and maintaining softwares.

2. Explain types of software.

Ans. There are three types of software :

- a. System software : It is the in-built system of a device. It is a software on which other third party softwares can run. Example. Linux , macOS.
- b. Application software : It is a third party software that can be run on other system softwares to execute a specific task/application, used by end-users. E.g. zoom
- c. Utility software : CAM (Computer aided manufacturing) and CAD(Computer aided designing) that are used for building things.

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

Ans. SDLC refers to the Software Development Life Cycle. Its phases are as follows :

- Planning : This phase involves the initial preparation required to make the software.
- Analysis : Involves the various analysis like market requirement among other things that are required.
- Designing : Laying out the initial framework in terms of design of the software front end before it is coded.
- Development : Coding the software to meet all the design and planning requirements.
- Testing : Testing the code to detect errors.
- Maintenance : Making sure the software works properly from a timely basis after its initial launch.

4. What is DFD? Create a DFD diagram on Flipkart.

Ans. DFD refers to Data Flow Diagram. It shows the flow of data for any software.

DFD diagram of flipkart :

customer -----> registration

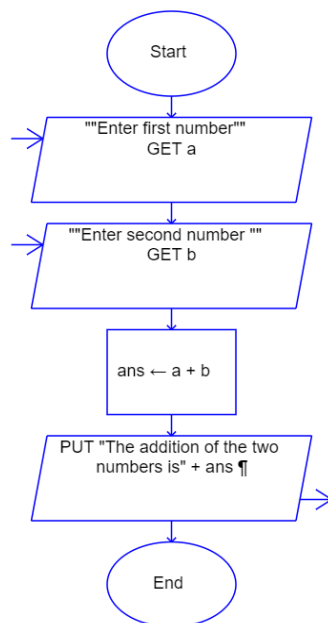
Product search -----> order placement

Payment process <----- payment gateway

5. What is Flow chart? Create a flowchart to make addition of two numbers.

Ans. A flow chart makes use of specific shapes to show the algorithm required for the backend processes.

Flow chart for addition of two numbers :



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

Ans. A use case diagram shows the data flow process for specific services such as payment.

Use-case on bill payment on paytm :

User -----> registration

Select bill type

Bill details

Payment method

Payment gateway

Payment process

Payment confirmation
