

Software Engineering Assignment

MODULE : 1

SE - Overview of IT Industry

1)) What is software? What is software engineering?

- Software is the language computer of programs and related data that provide the intructions for telling a computer what to do and how to do it.
- Software engineering is the branch of computer science that deals with the design, development, testing, and maintenance of software applications.

2)) Explain types of Software

- (i)System software/operating system :- Operating system is system software that manages computer hardware, software resources, and provides common services for computer programs.

- (ii)Application s/w :- A type of computer program that performs a specific personal, educational, and bussines function.
- (iii)programming Software :- A computer language that is used by programmers to communicate with computers.

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

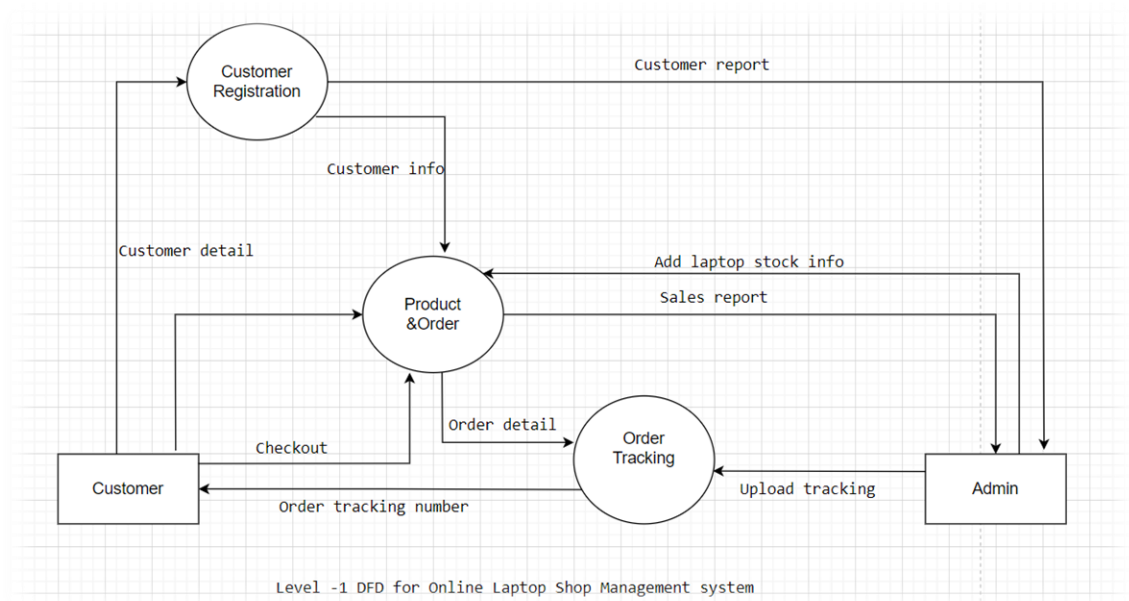
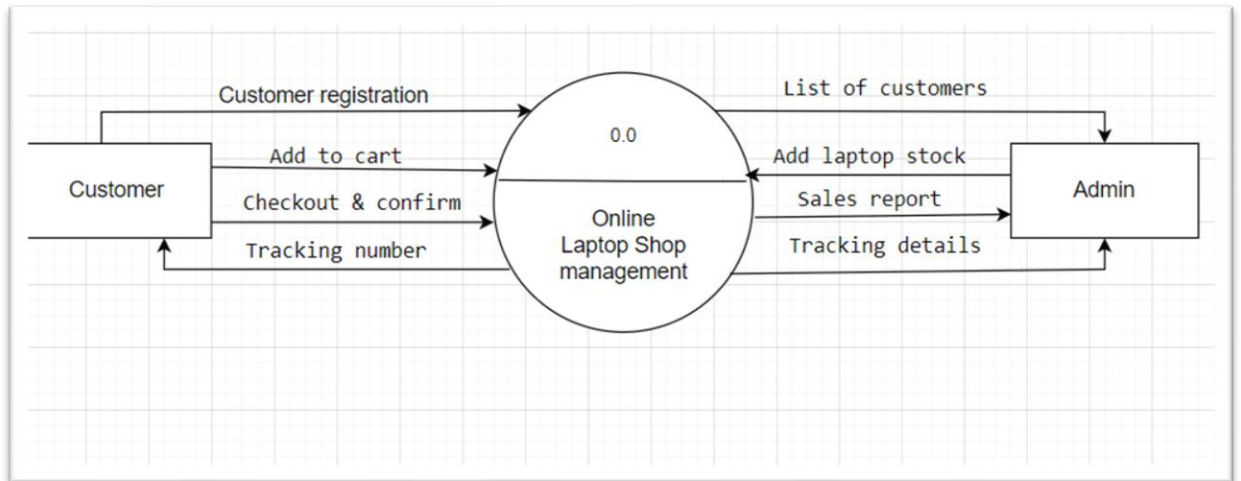
- A step by step approach to develop any product/software high quality, lowest cost with shortest possible time.
- **Phase:(i)Planning/Requirement gathering(what) :-**
The project plan is developed that identifies, prioritizes, and assigns the task and build the structure for a project.
- **(ii)Analysis (How) :-** Gathering, understanding, and documenting the requiriments of a software project.
- **(iii)Designing (DFD, Flow chart , ER, Use case) :-** This phase involves transforming the software requirements gathered during the requirements analysis phase into a structured design document.

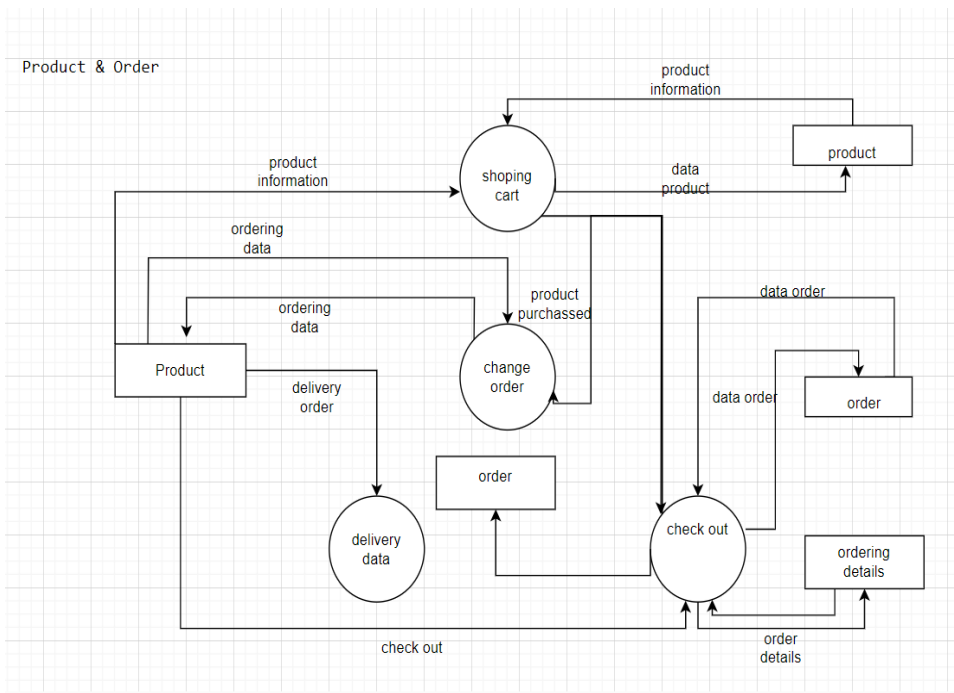
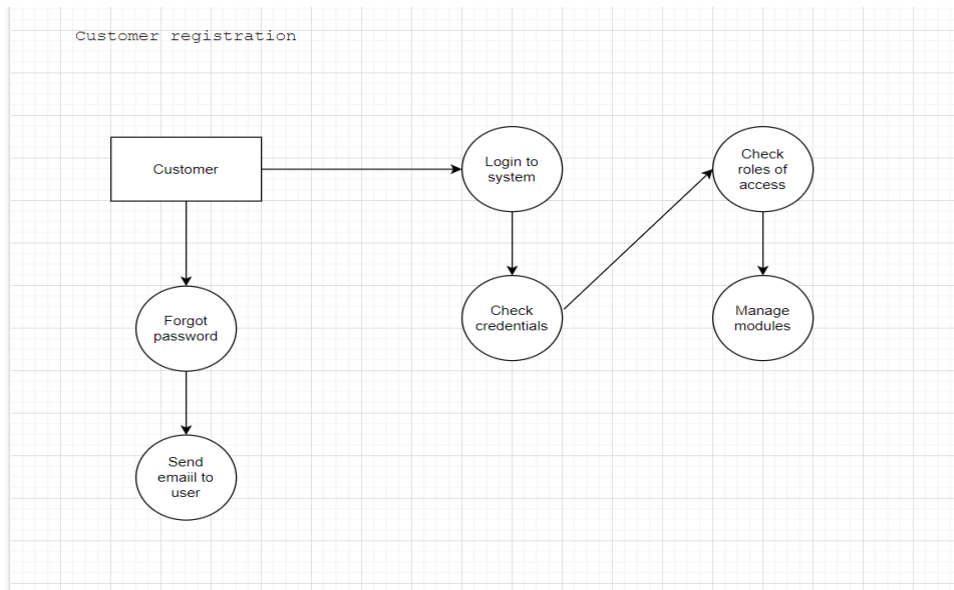
- **(iv) Implementation/coding/Building :-** This phase is initiated after the system has been tested and accepted by the user.
- **(v) Testing (QA) :-** The testing is done to ensure that the entire application works according to the customer requirements.
- **(vi) Maintenance :-** The process of changing , modifying , and uploading software to keep up with customers needs.

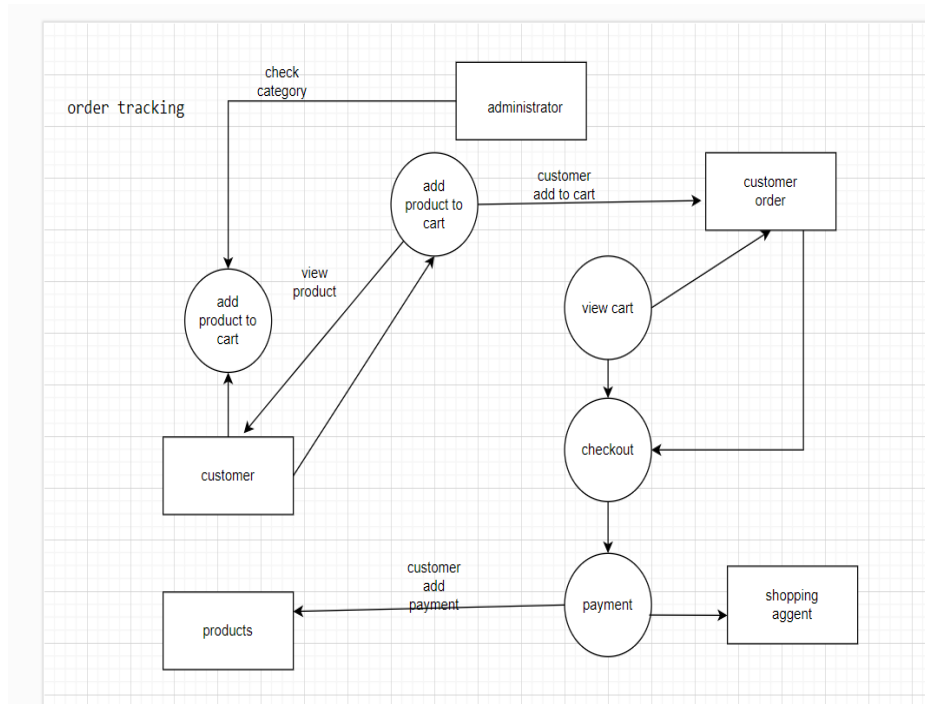


4)) What is DFD? Create a DFD diagram on Flipkart

- A data flow diagram looks at how data flows through a system.

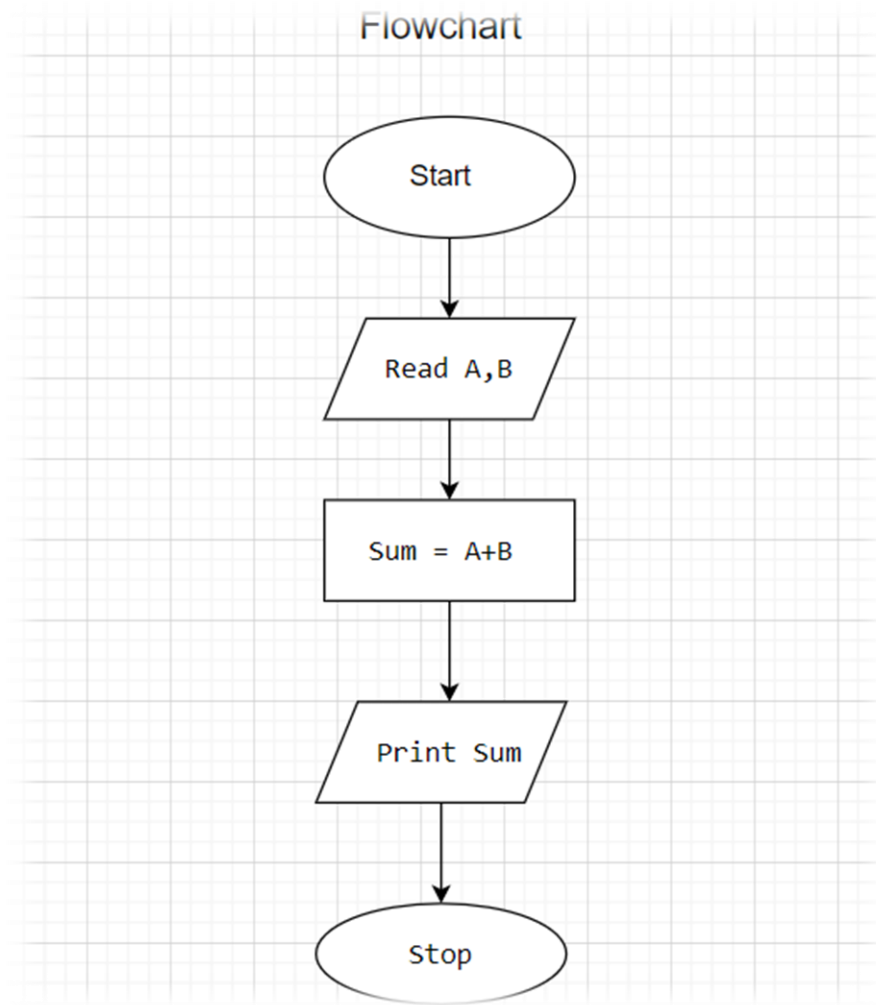






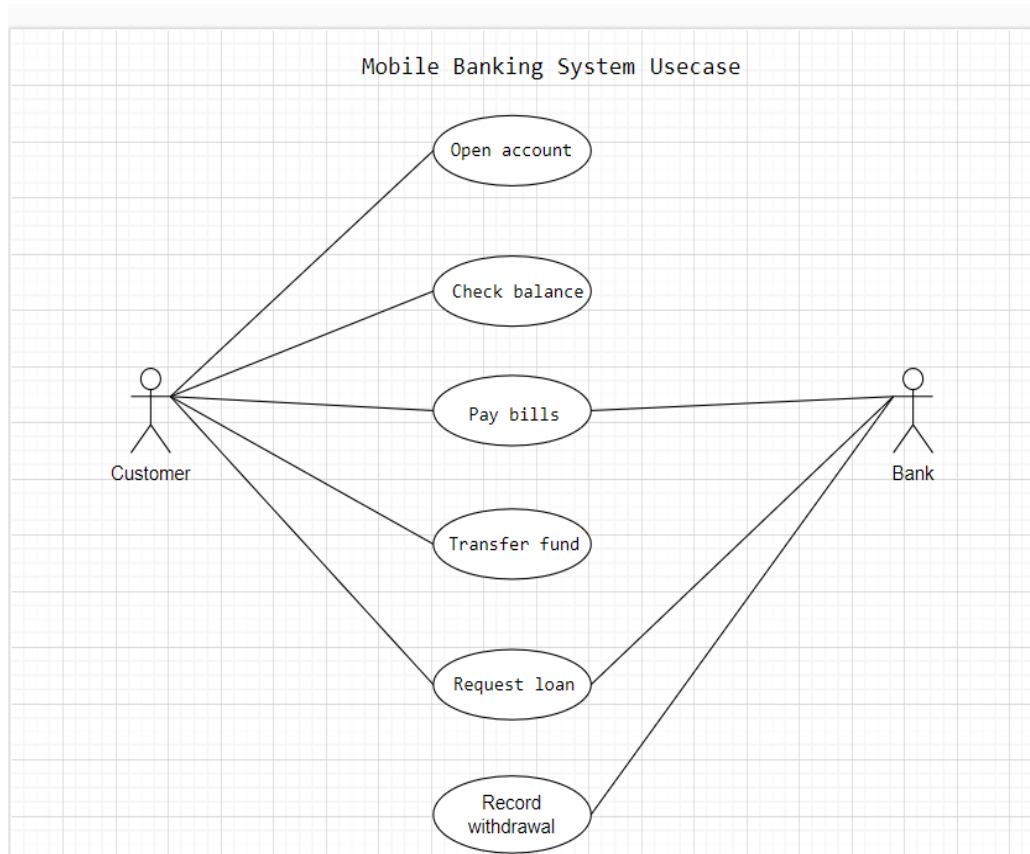
5)) What is Flowchart? Create a flowchart to make addition of two numbers

- A picture of the separate steps of a process in sequential order.



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

- Use case diagrams describe the high level function and scope of a system.



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