Software Engineering Assignment

MODULE: 1

1. What is software? What is software engineering?

* Software is a set of instructions that tell a computer what to do. **Software engineering** is the process of designing, developing, testing, and maintaining software to ensure it's reliabe and efficient.

2. Explain types of software le and efficient.

* **System Software**: Manages hardware and provides basic functionalities (e.g., operating systems).
* **Application Software**: Helps users perform tasks (e.g., word processors, web browsers).
* **Programming Software**: Tools to create software (e.g., compilers, debuggers).

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

* **SDLC (Software Development Life Cycle)** is a process used to develop software It has 6 phases:
* **Requirements Gathering**: Gathering and documenting what the software should do.
* **Design**: Creating a blueprint of how the software will be structured and function.
* **Implementation**: Writing the code and building the software.
* **Testing**: Checking if the software works correctly.
* **Deployment**: Releasing the software for users.
* **Maintenance**: Updating and fixing issues in the software after release.



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

* **DFD (Data Flow Diagram)** shows how data moves through a system.

DFD diagram on Flipkart



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

* **Flowchart**: A flowchart is a visual representation of a process or algorithm using symbols connected by arrows showing the sequence of steps. Here’s a simple flowchart for adding two numbers
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6. What is Use case Diagram? Create a use-case on bill payment on paytm.

* **Use Case Diagram**: A use case diagram illustrates how users interact with a system and its functions.



Dave Dhanvin