

First OS in the world ✓ classmate

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Operating System

An operating system is an interface b/w a Computer user and Computer hardware.

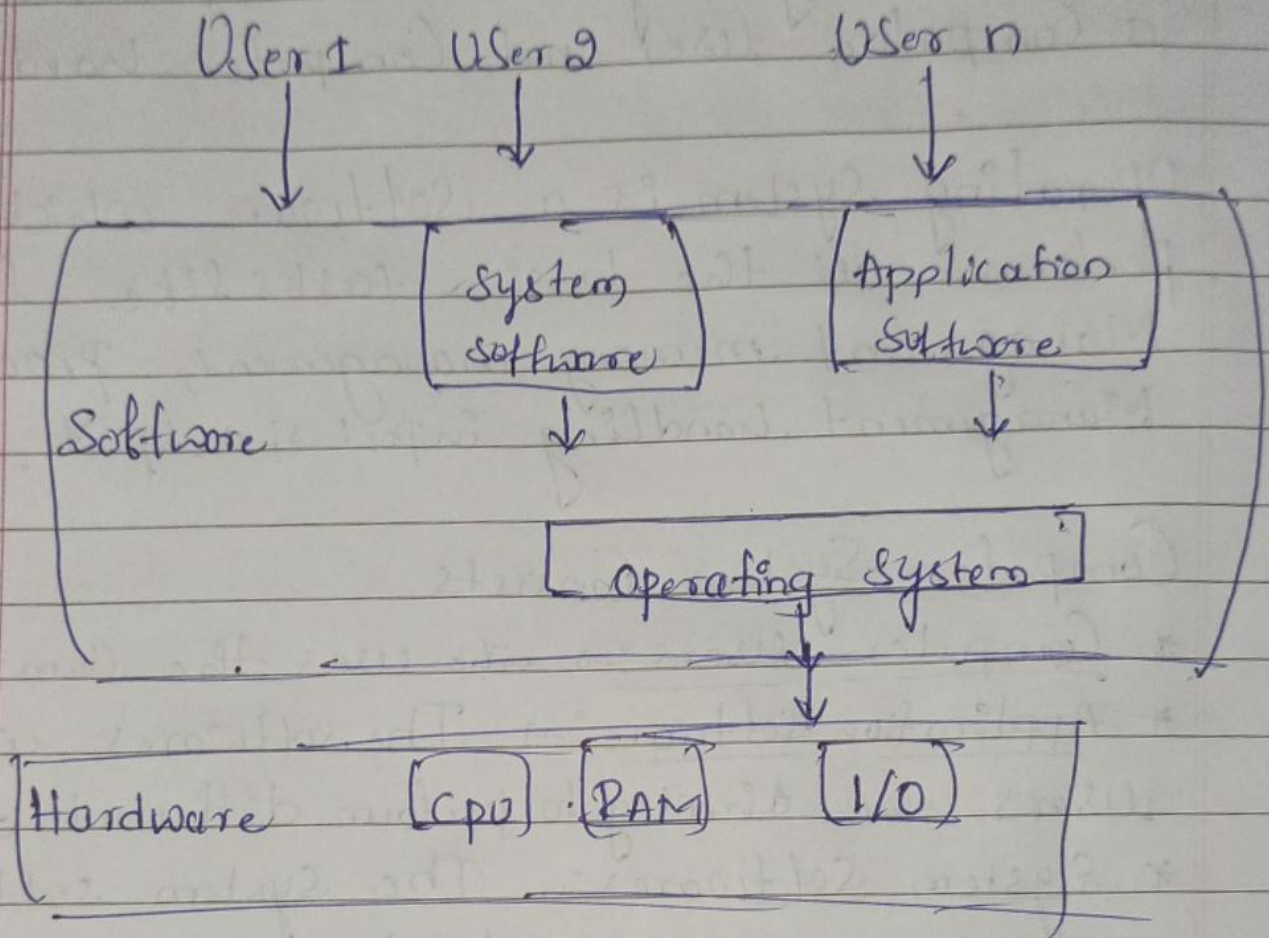
Operating System is a Software which performs all the basic tasks like file Management, memory management, Process Management, handling input & output.

Computer System Consists

- * Computer users → who uses the Computer.
- * Application Software → The softwares which users use directly to perform different activities.
- * System Softwares → The system softwares which are nearer to the hardware (Windows, macOS)
- * Computer Hardware → includes monitor, keyboard, CPU, Disk, Memory etc.

Kernel → The software that contains Core Components of the operating system

Architecture



Memory Management refers to management of primary memory or Main memory. Main memory is a large array of words bytes where each word or byte has its own address.

Main memory provides fast storage that can be accessed directly by the CPU.

Operating System does the following activities.

- * Keeps tracks of Primary memory.
- * In multiprogramming, the OS decides which process will get memory when and how much.
- * Allocates the memory when a process requests it to do so.
- * De-allocates the memory when a process no longer needs it or has been terminated.

Process Management

In multiprogramming environment, the OS decides which process when and for how much time this ~~proc~~-function is called Process Scheduling.

- * Keeps track of processors and status of process.
- * Allocates the processor (CPU) to a process.
- * De-allocate process when a process is no longer needed.

* Device Management :- Same as Process management.

* File Management :- File System is normally organized into directories for easy navigation & usage.