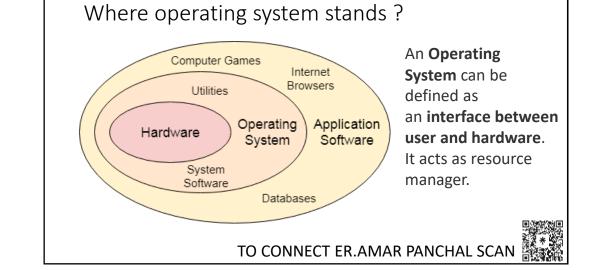
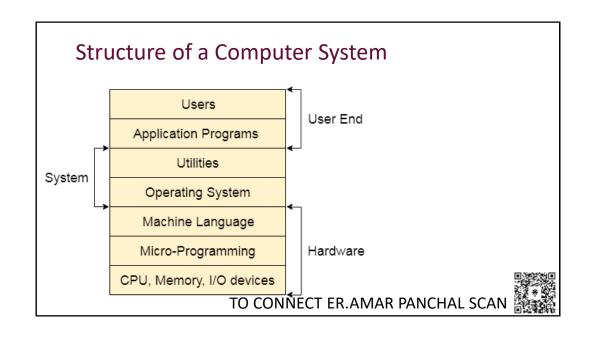
OPERATING SYSTEM

BASICS

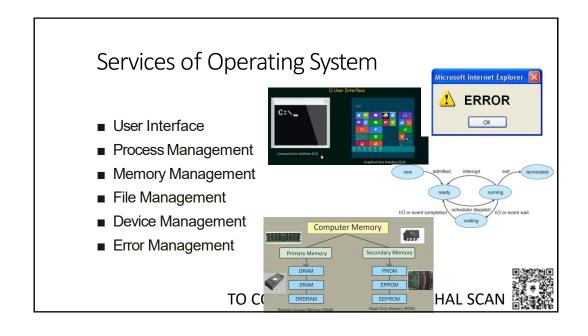




Basic Functions of OS

- Resource Allocation
- Accounting
- Protection and Security

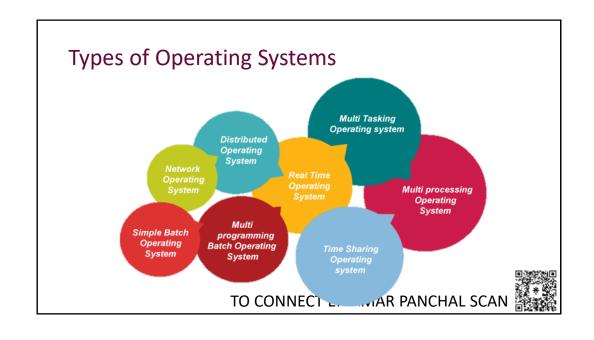


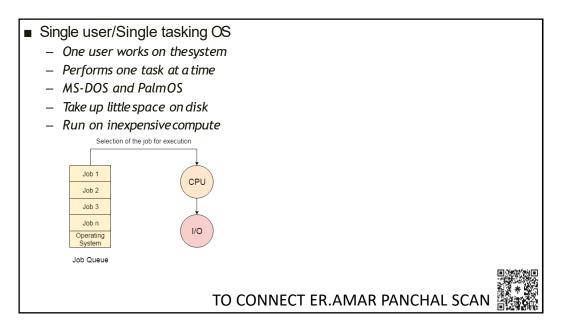


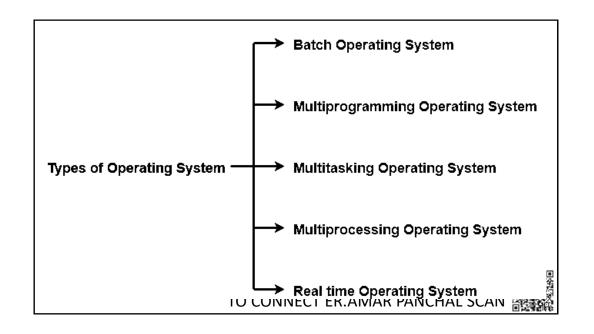
Design Issues of Operating System

- Simplicity
- Completeness
- Efficiency



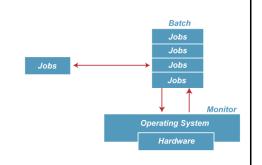






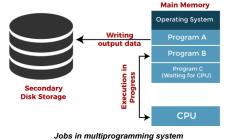
Batch Operating System

- In this technique, similar types of jobs were batched together and executed in time.
- In Batch operating system, access is given to more than one person; they submit their respective jobs to the system for the execution.
- The system put all of the jobs in a queue on the basis of first come first serve and then executes the jobs one by one. The users collect their respective output when all the jobs get executed.



Multiprogramming Operating System

 n a multiprogramming environment, when a process does its I/O, The CPU can start the execution of other processes. Therefore, multiprogramming improves the efficiency of the system.

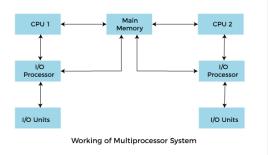


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• In Multiprocessing, Parallel computing is achieved. There are more than one processors present in the system which can execute more than one process at the same time. This will increase the throughput of the

system.

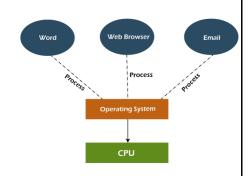
Multiprocessing Operating System





Multitasking Operating System

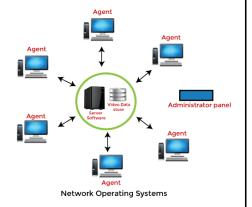
 The multitasking operating system is a logical extension of a multiprogramming system that enables multiple programs simultaneously. It allows a user to perform more than one computer task at the same time.



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Network Operating System

 An Operating system, which includes software and associated protocols to communicate with other computers via a network conveniently and cost-effectively, is called Network Operating System.





Real Time Operating System

 In Real-Time Systems, each job carries a certain deadline within which the job is supposed to be completed, otherwise, the huge loss will be there, or even if the result is produced, it will be completely useless.



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Time-Sharing Operating System User1 User2 User8 • In the Time Sharing operating system, computer resources are allocated in a time-dependent fashion to several programs User3 User7 CPU simultaneously. Thus it helps to provide a large number of user's direct access to the main User6 computer. User5 Timesharing in case of 8 users TO CONNECT ER.AMAR PANCHAL SCAN

Distributed Operating System

• The Distributed Operating system is not installed on a single machine, it is divided into parts, and these parts are loaded on different machines. A part of the distributed Operating system is installed on each machine to make their communication possible.

