

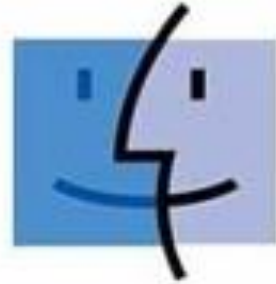
OPERATING SYSTEM (OS)



Apple



Microsoft



MacTM OS

symbian

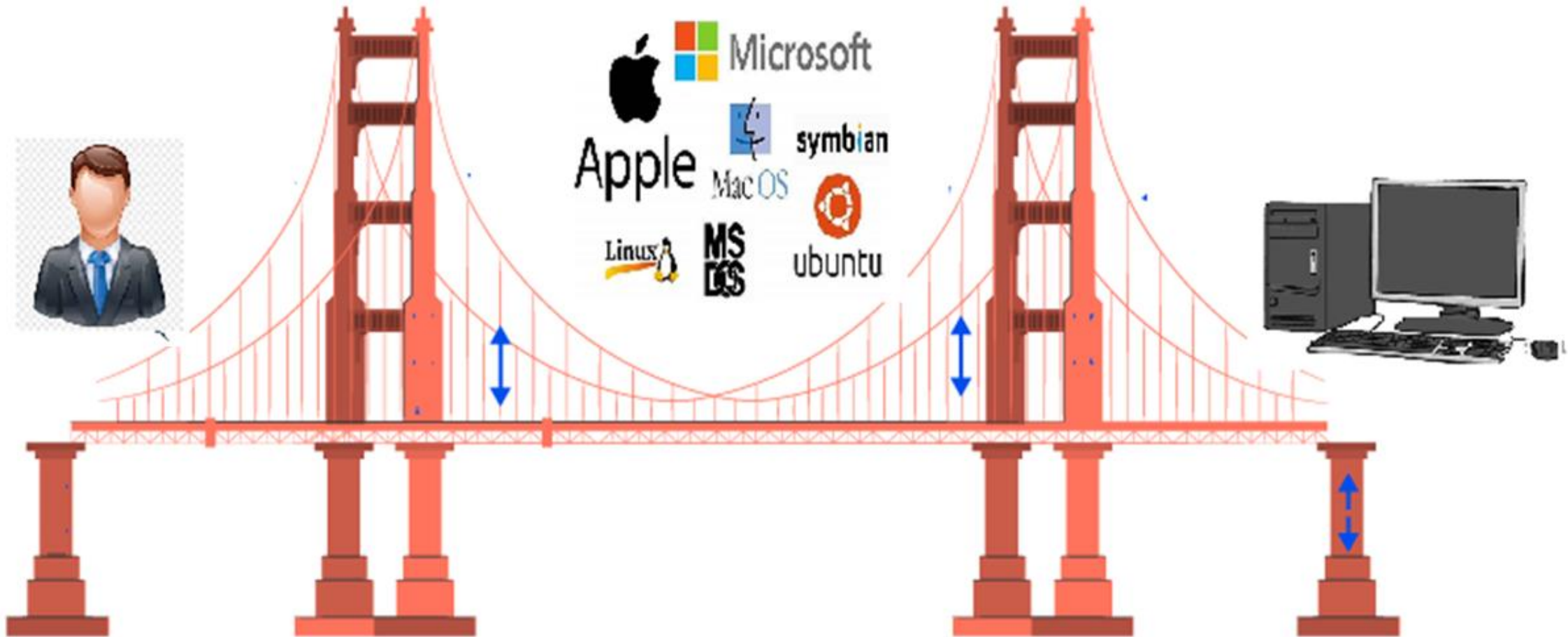


MS
DOS

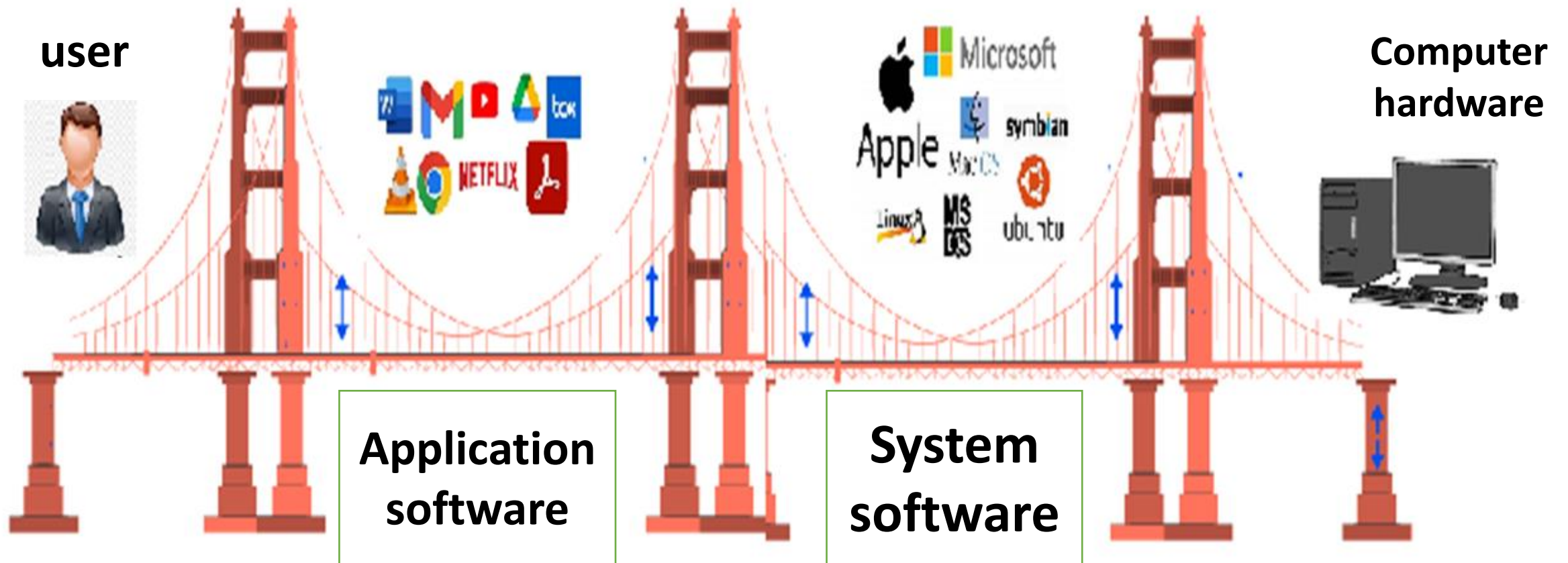


ubuntu.

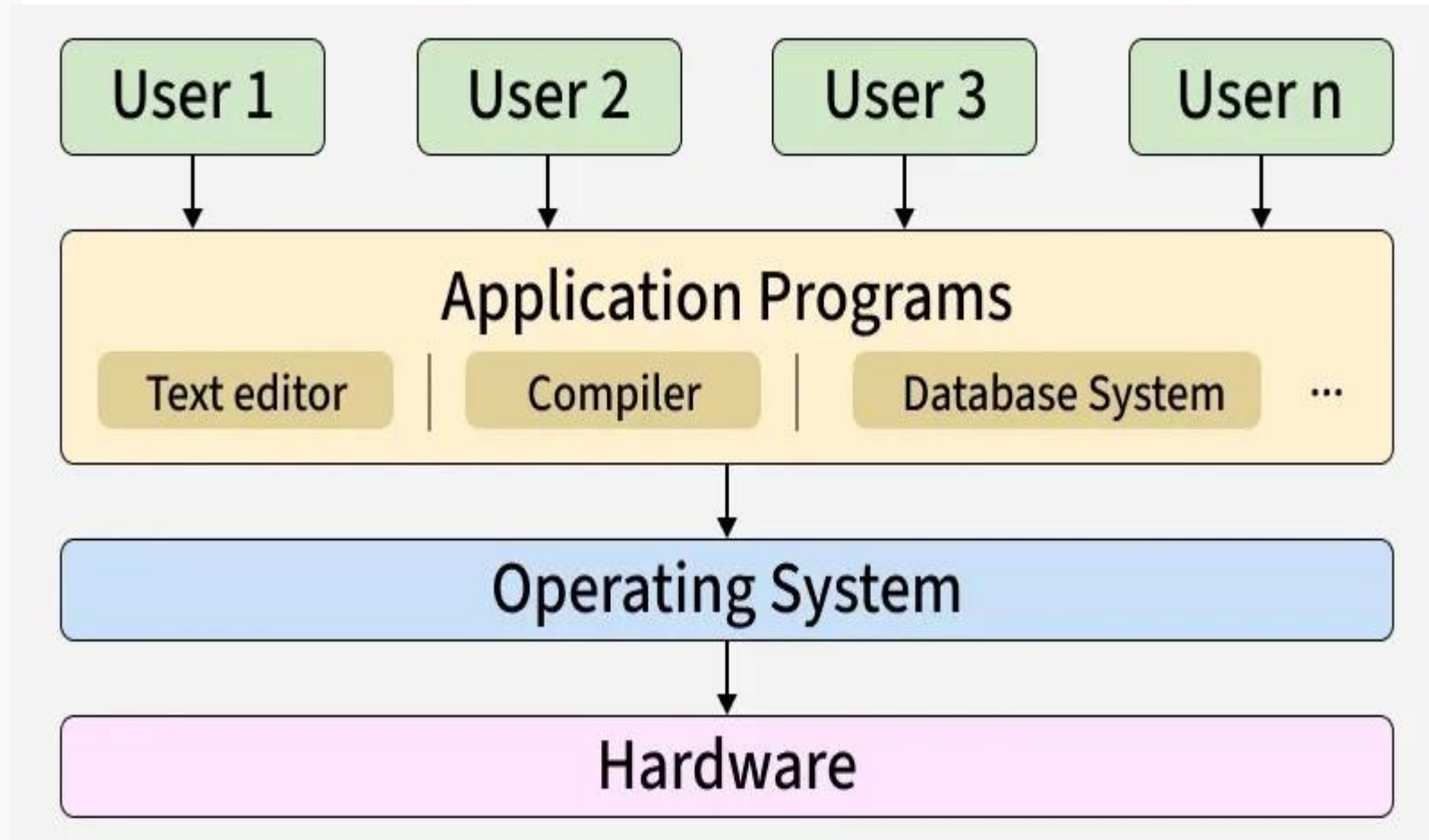
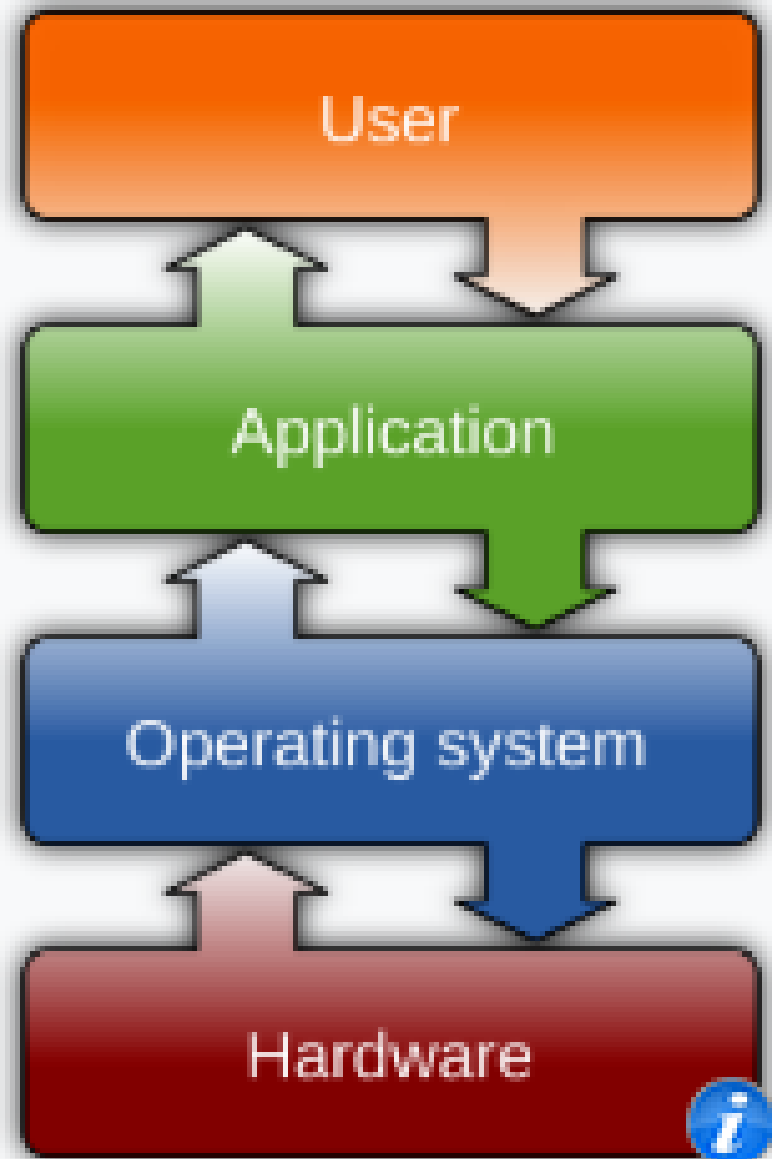
OS = Interface between the computer user and the computer hardware.



OS = ये user और कंप्यूटर हार्डवेयर के बीच Interface(बात-चीत) करवाता हैं ।
User भी direct OS (system software) से interface नहीं करता हैं वो पहले application software से interface करता हैं ।



Operating systems





Function / Components OS



Functions of Operating System



Hotel



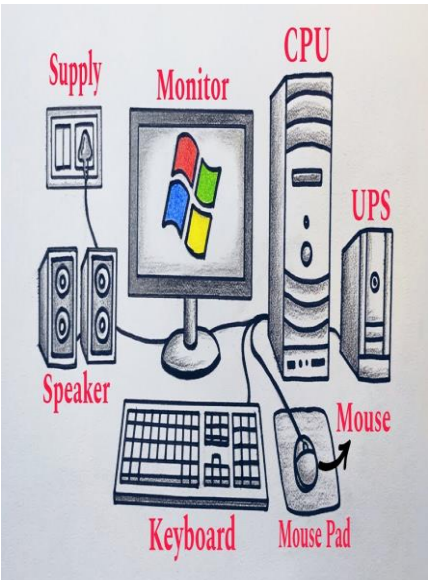
customer



Manager



chef



User



**operating
System**



Application Software



Memory Management



Application Software

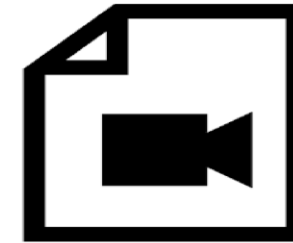
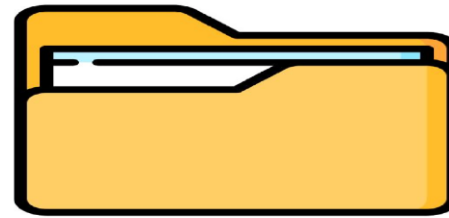
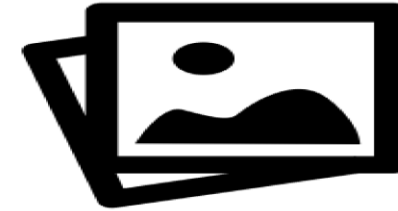
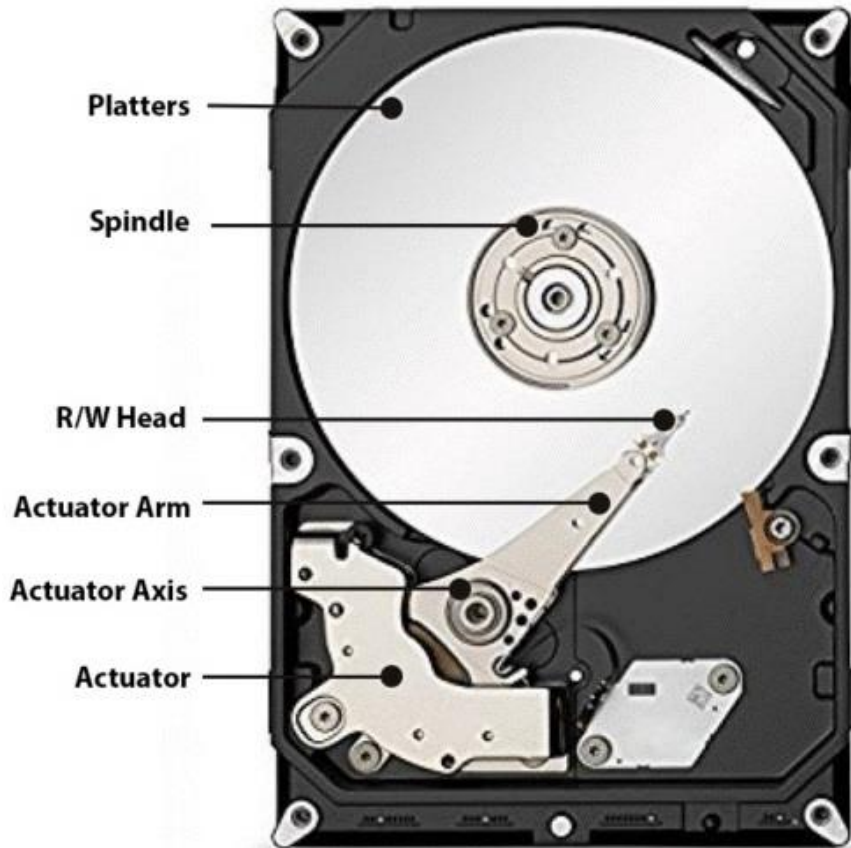


RAM को manage करना

- ❖ Process को RAM allocate करना
- ❖ Process का काम खत्म होने पर RAM को free करना
- ❖ Multitasking के लिए memory divide करना
- ❖ जरूरत होने पर Virtual memory बनाना

File Management

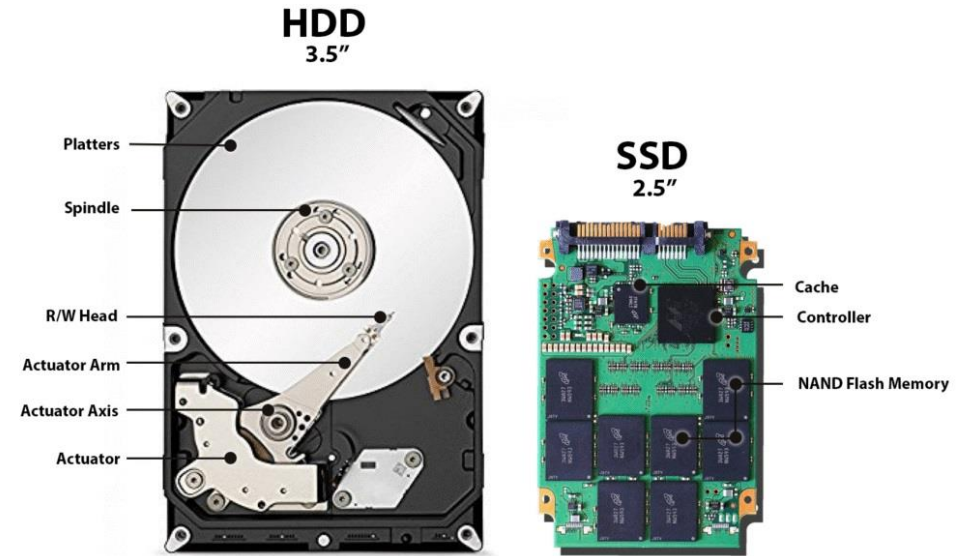
HDD
3.5"



File को manage करना

- ❖ Secondary storage (HDD/SDD) के file को manage करते हैं ।
- ❖ File create, open, save, delete, rename....
- ❖ Folder create , open, save, delete, rename,....
- ❖ File का size, location, permission,...
- ❖ Logical storage/update देखता/manage करता हैं

Device /IO Management



Device को manage करना

- ❖ Device को allocation & de-allocation करना
- ❖ Hardware device (printer/ keyboard / mouse/ disk / scanner,...) को manage करना
- ❖ Device driver के through Device को चलाना
- ❖ Device का status track करना
- ❖ Device के Job को manage करना

Process Management



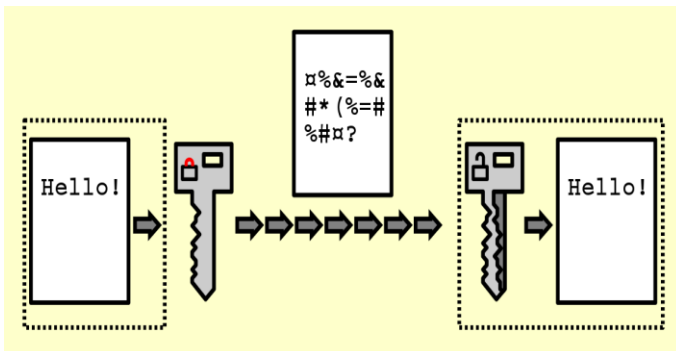
Application Software



CPU को manage करना

- ❖ CPU allocation & scheduling
- ❖ Process create ,ready,running,block/wait, terminate
- ❖ Deadlock remove, PCB record
- ❖ Algorithm – FCFS,SJF, Priority, Round-robin

Security Management



Security को manage करना

- ❖ System, data एंड resource को unauthorized access से बचाना |
- ❖ Pin, password, otp, file permission, antivirus, malware, spyware, admin login, Encryption, threats protection,से बचाना

Disk Management

OR Secondary Storage management

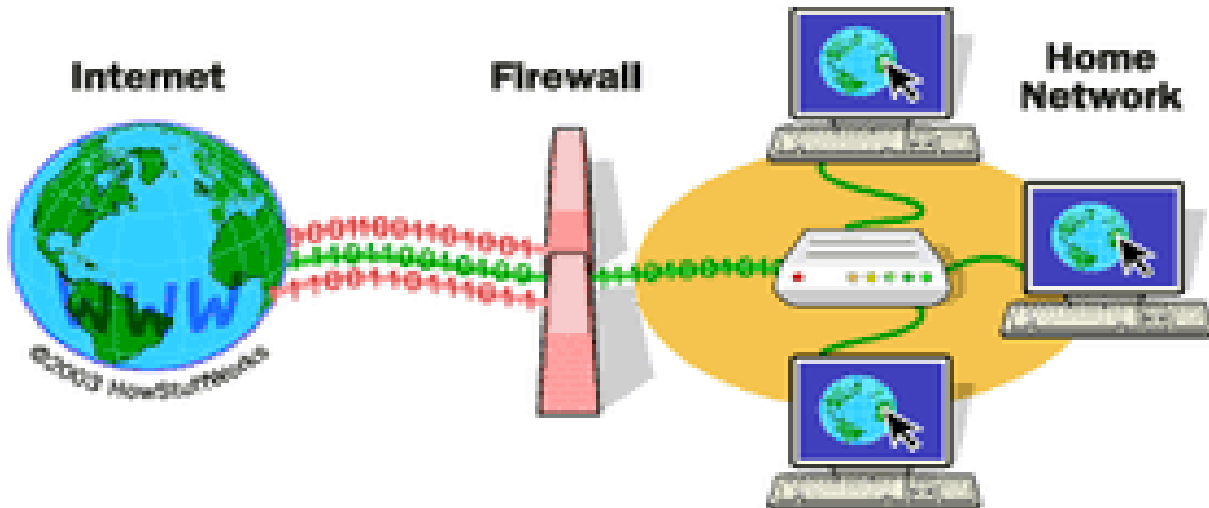
HDD
3.5"



Disk को manage करना

- ❖ HardDisk, SSD, Pen driver, CD,... को manage करना
- ❖ खोजने का तरीका – FCFS, SSTF, SCAN, c-scan,.....
- ❖ रखने का तरीका – Contiguous, linked –index, Non Contiguous
- ❖ Physical storage देखता हैं

Network Management



- 1.College
- 2.Principal
- 3.Parent
- 4.Teacher
- 5.Student

- a. CPU
- b. Application S/W
- c. Operating System (OS)
- d. User
- e. Computer