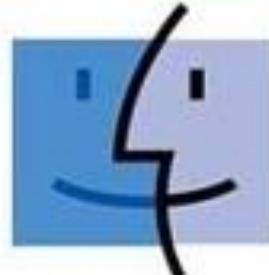


# OPERATING SYSTEM (OS)



Microsoft

Apple



symbian

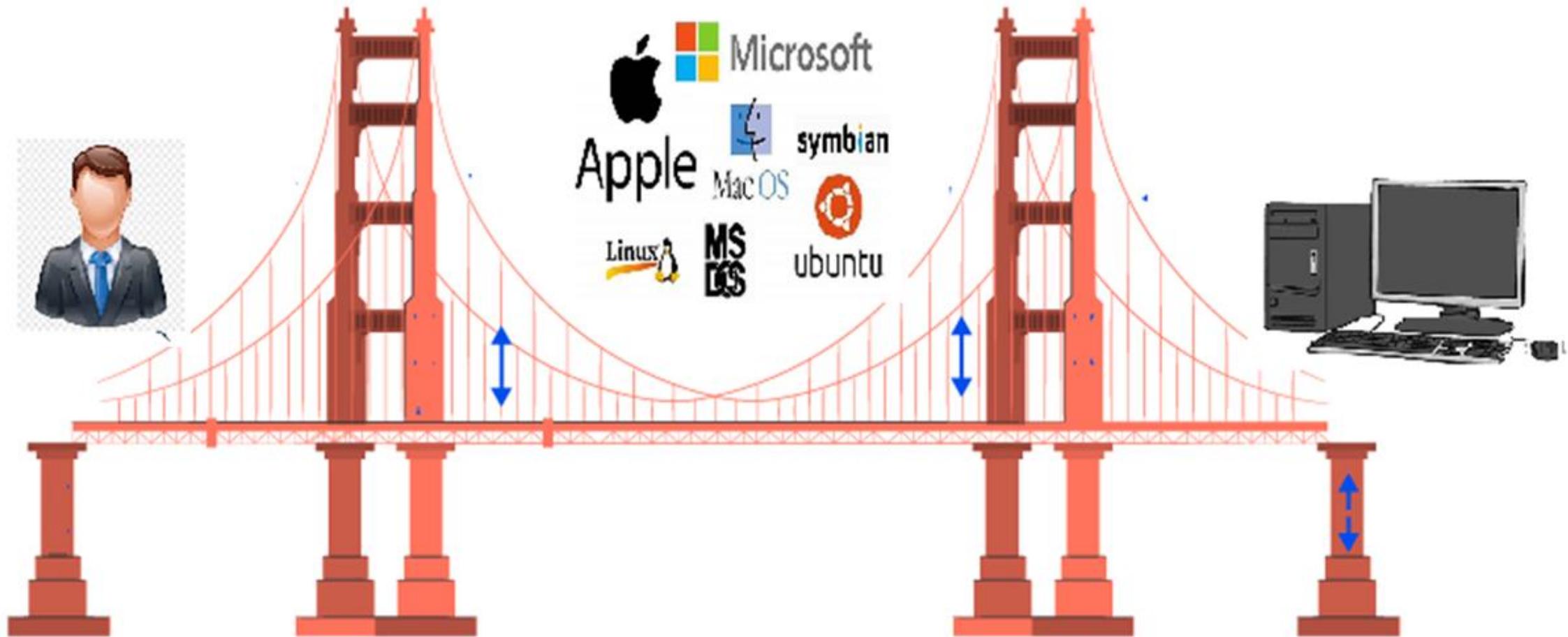
Mac<sup>TM</sup> OS



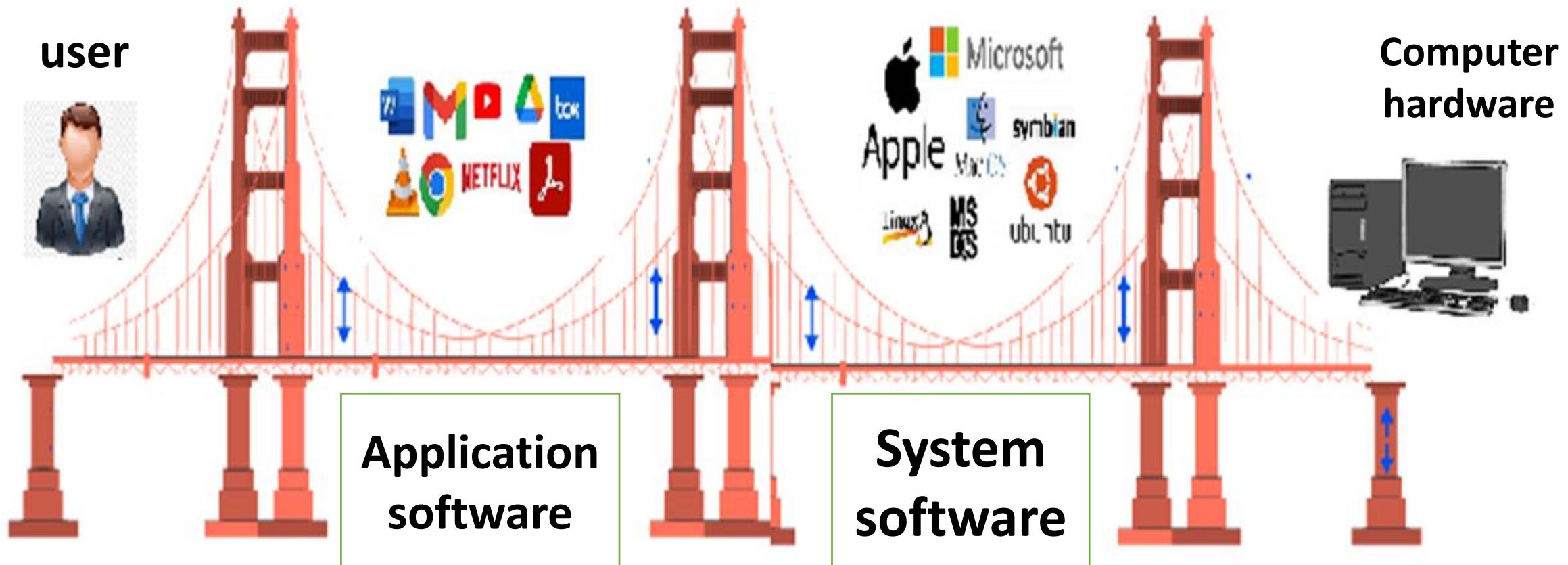
MS  
DOS

ubuntu.

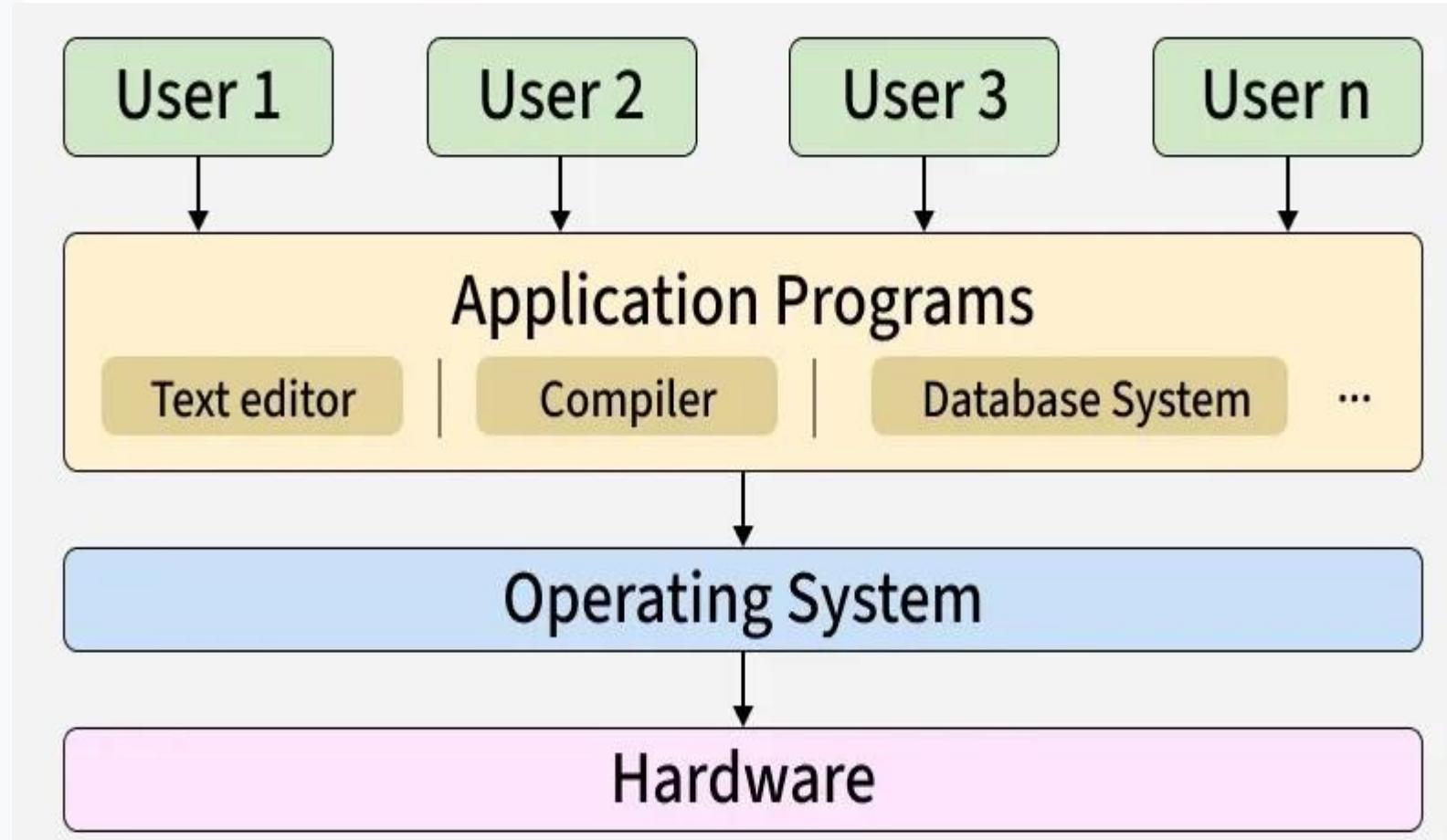
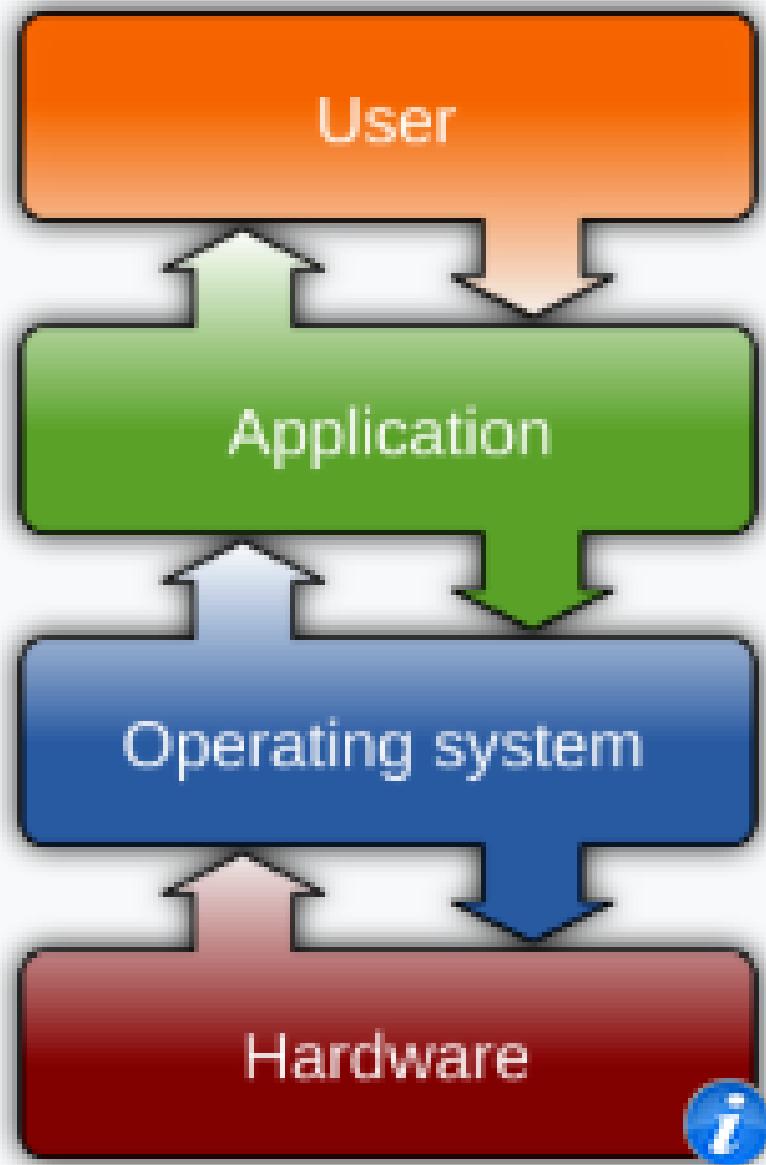
# OS = Interface between the computer user and the computer hardware.



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 ।

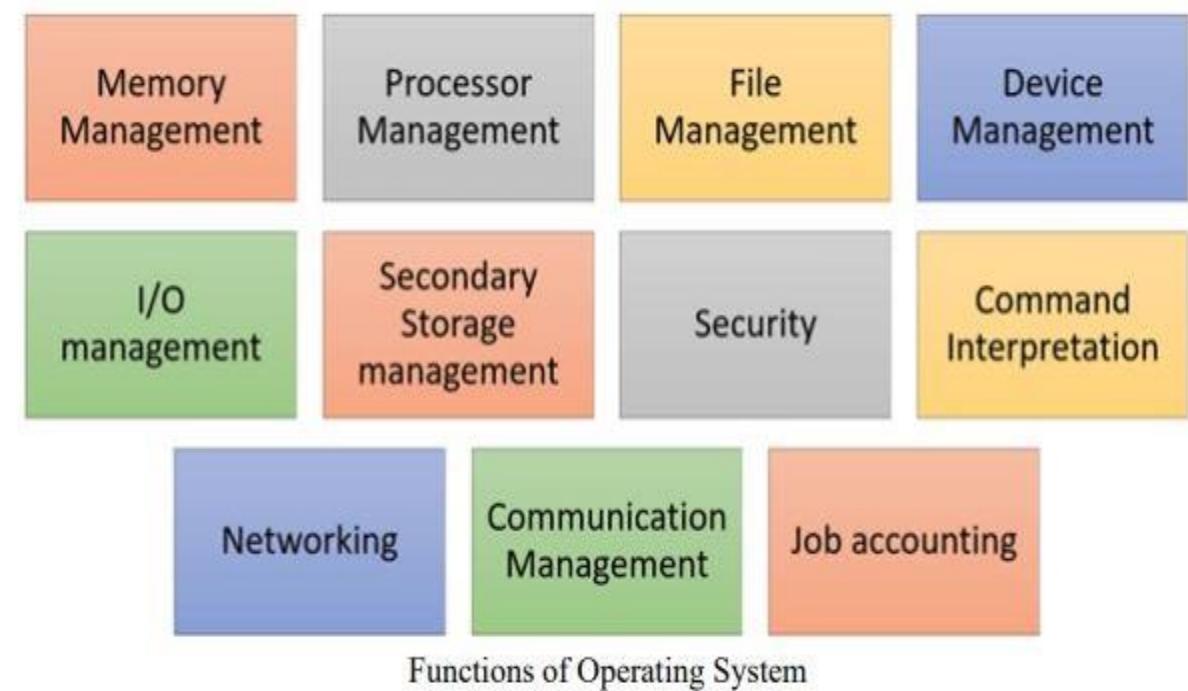


# Operating systems





# Function / Components OS





# Hotel



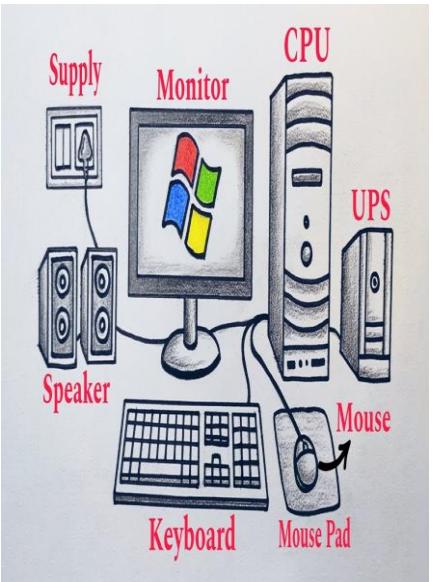
# customer



## Manager



chef



## User



# operating System



## **Application Software**



# Memory Management



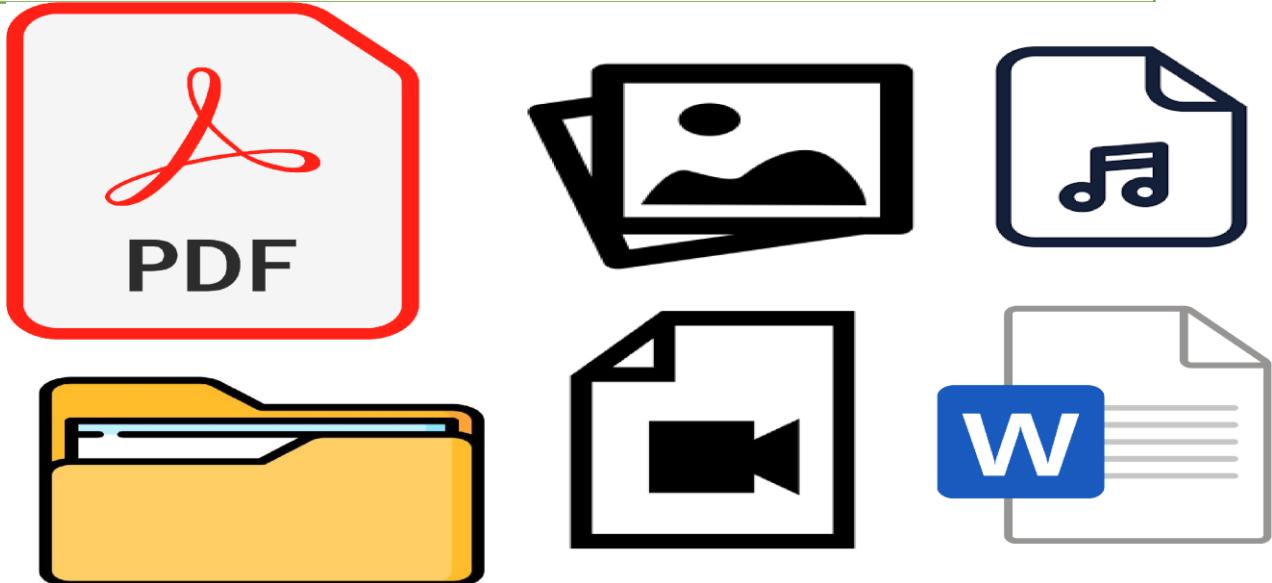
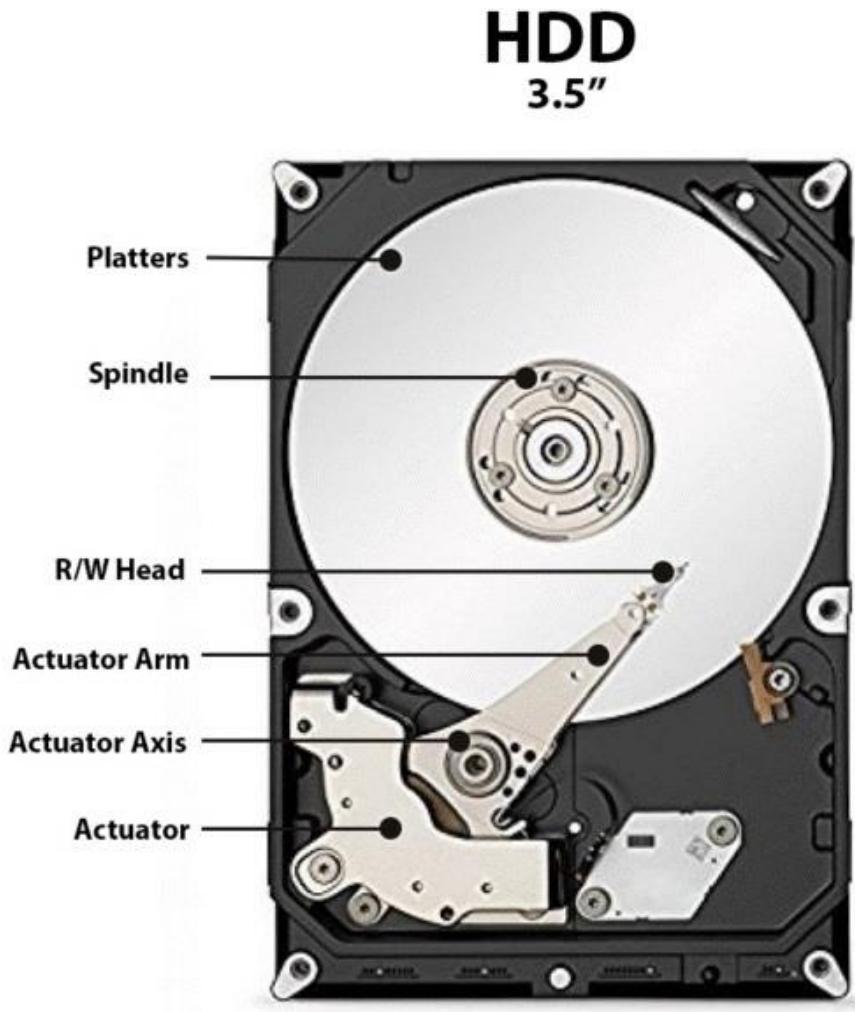
## **Application Software**



# RAM को manage करना

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

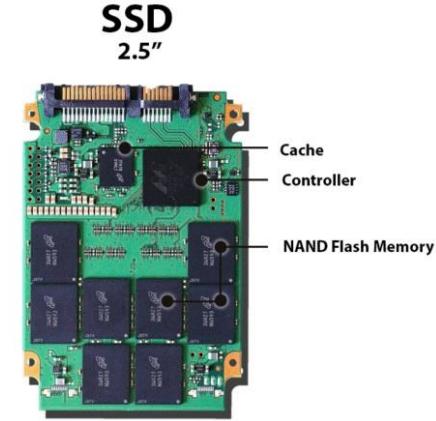
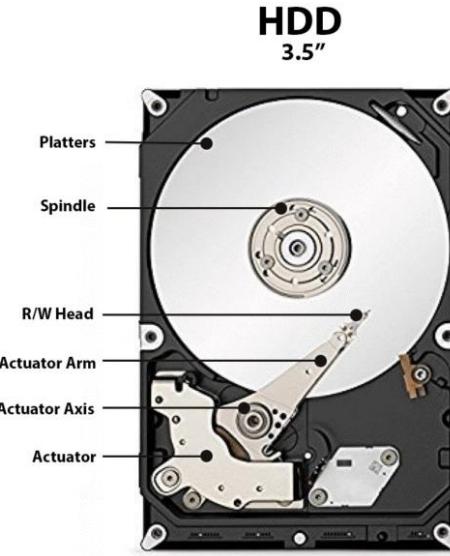
# File Management



## 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 है

# Device /IO Management



## Device को manage करना

- ❖ Device को allocation & de-allocation करना
- ❖ Hardware device (printer/ keyword / 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



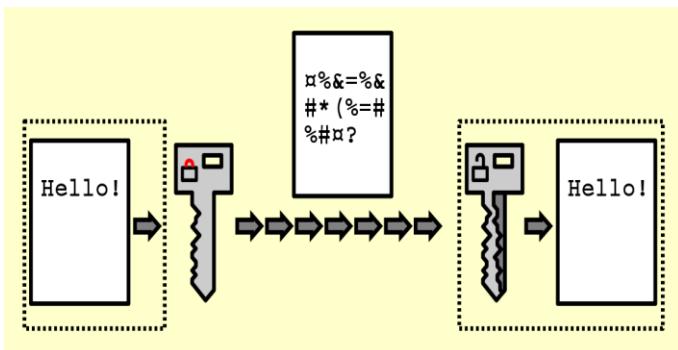
Application Software



## 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

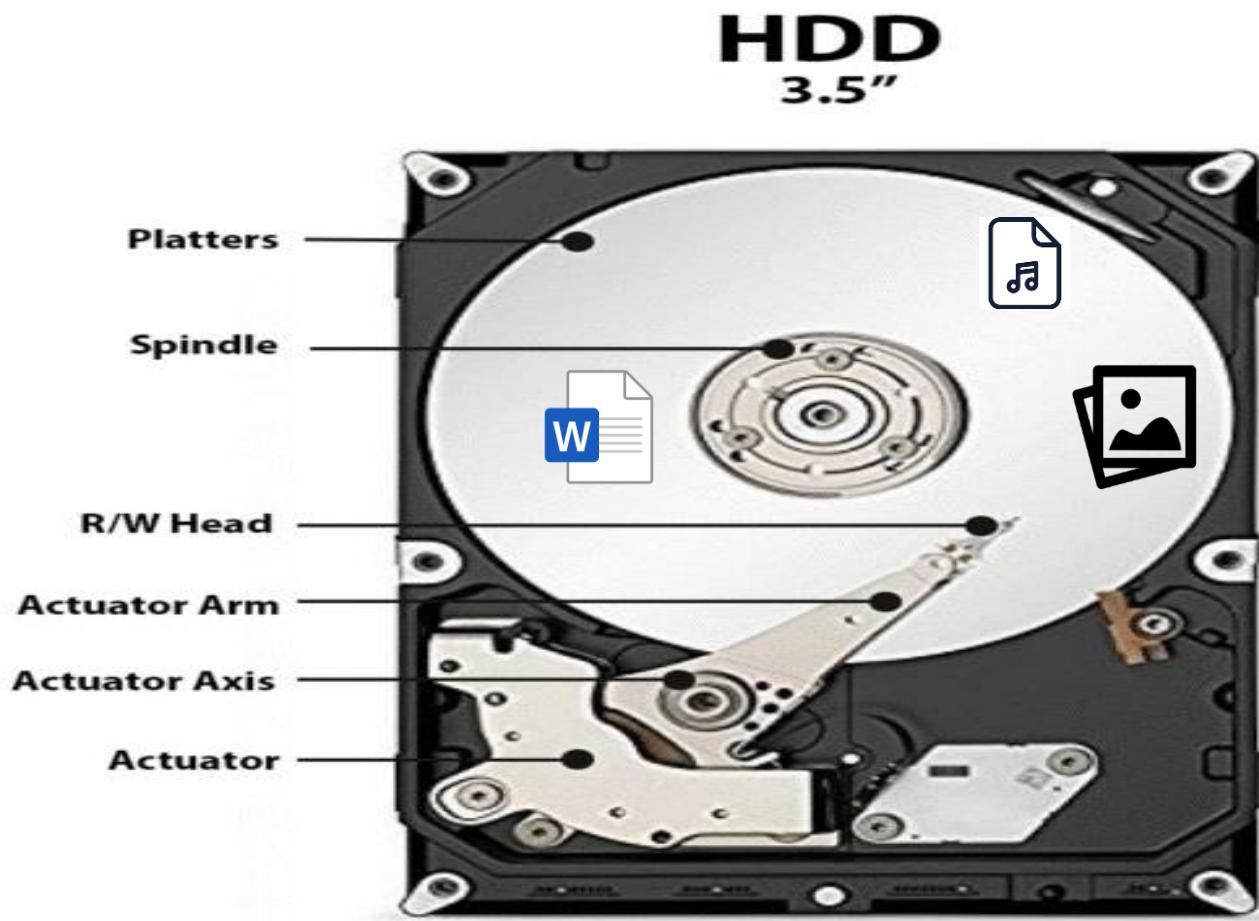


## Security को manage करना

- ❖ 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

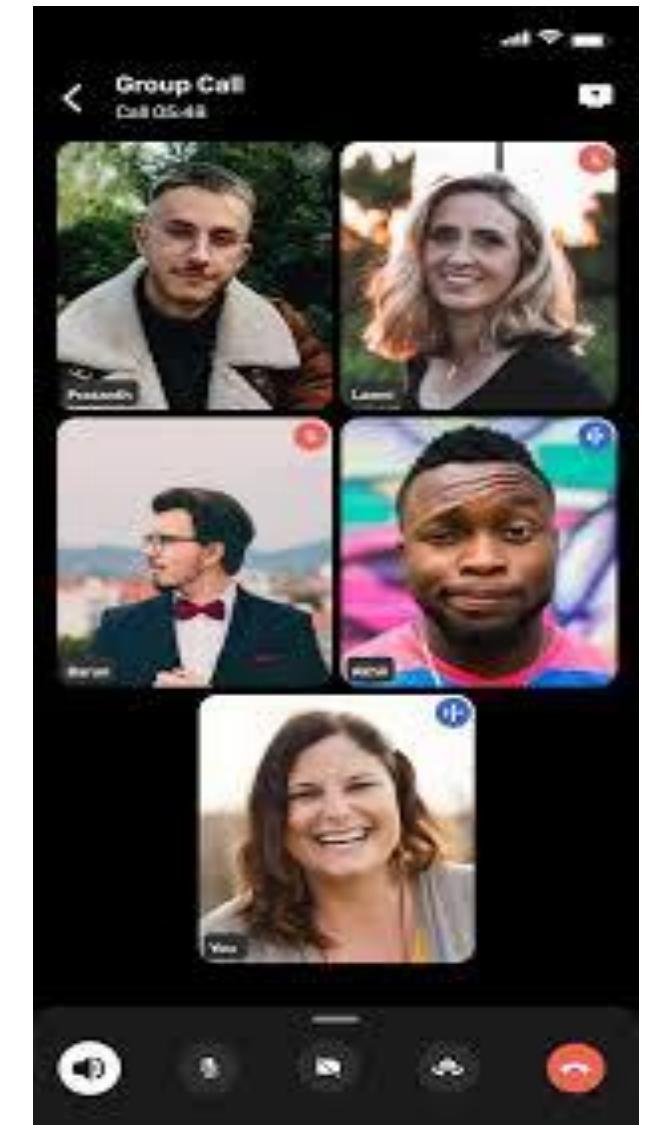
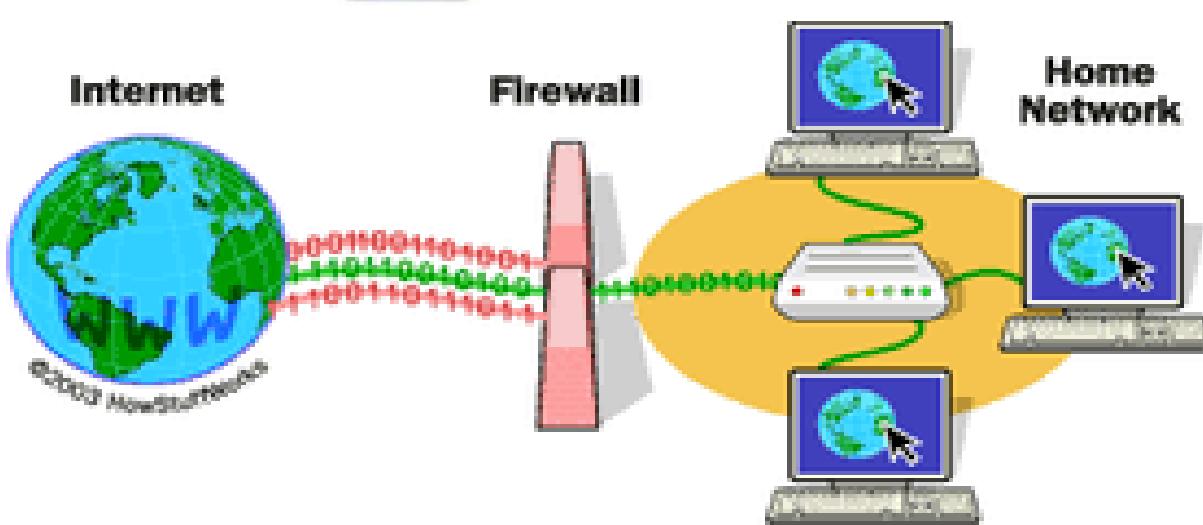
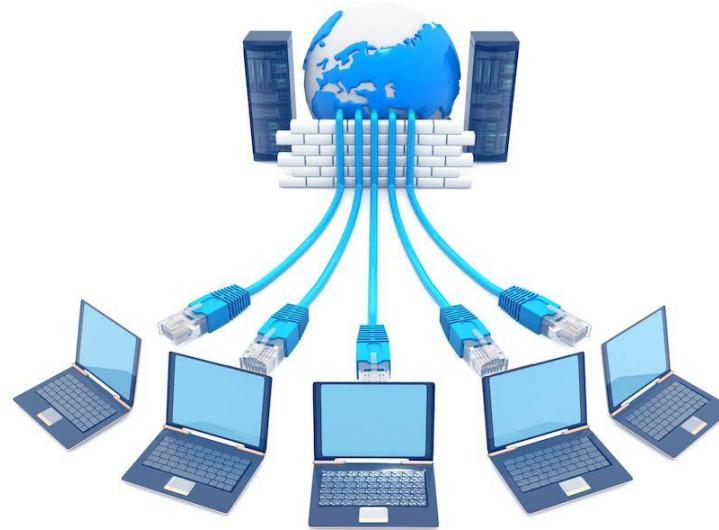
OR Secondary Storage management



## 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**