operating System



Det's suppose we have two application, which we wing at a time, then we need to allocate resources effectively to both the application, ensuring each application receives the appropriate resources according to their requirement.

This: is falled "resource management".

Ex. APP1+ Tiktok - cpu-5%, memory +10%, GPU-010%.

APZ + Puby - cpu + soy, memory + yoy, upu + 60%.

Application Software: D It is a computer program or Software designed to perform specific task or functions for the wer.

System Software: + of operates and controls the computer the computer system and provides a plateform to run application software.

Operating System: of 9t is a piece of software that
manages all the resources of a computer system,
both hardware and software, and provide an
environment in which the wer can execute their
Programs in a convenient and efficient manner
by hiding underlying complexity of the hardware and
acting as a resource manager.

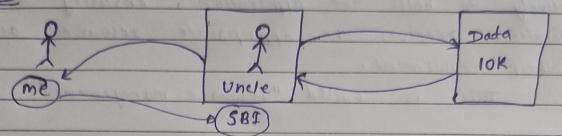
* The way the hardware is made, the software requirments are made accordingly.



W

- Operating system is like an Interface.

Example:



In the above example,

when I go to SBI bank, I told the uncle that uncle please chekk my bank balance and withdraw lok amount and give it to me.

Let's relate this example to the operating system

me- wer apph, uncle o Interface, amount o Resources

why operating syttem?

What if there is no os?

- # All the apph have to do memory management by

 themselves due to which this application becomes

 bulky and complex.
- Resource exploration by one application.
- No memory protection.

what is an OS made up of?

- collection of system software.