



We always want to design something that is convenient for user to use without any knowledge or technicality as if user needs to have knowledge then why would anyone use it.

· Computer hardware: CPU, memory units, etc. provides the basic computing sessurces.

· OS: Control and coordinates the rise of the hardware among the various applications programs.

· System and Applications programs: Defines the way in which these resources are used to solve the computing problems of the user.

second out the if we can help we connet out to

delast by bossepid are worked at the se eg:- User ) Tells Ms word to do something Tells as to do this

control and coordinates the use of hardware to complete the D Assilies Bully appo

Computer hardware

User cannot directly access resources cole along with how the

Goals & Functions of OS

comon menogenest and

· Primary Goals - Convenience / user friendly

· Secondary Goals -> Efficiency (Using resources in efficient manner). / Reliability/Maintainability

of some of training of the photomes of sold

gives more control & good photon

ed to drake sen weaker to DSLR but easy to use or convenient.

Mobile phones

not everyone can use it as they don't know shutter speed, frame rate, etc.

(there is some technicality) standard . 20

applications programs. EDRY & Don't Repeat Yourself principle.

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@ Resource Management

eg: - without if we run Tiktok it will hijack all the sesources but then if we own Puby we cannot own it I as all the resources are hijacked by Tiktok

with OS, the OS efficiently manages resources

TikTok Pubg

CPU: 12:1. (AU: 50%. Memory: 60%.

so we can sur puby after tiktok

Compute hardware

(2) Avoiding Bulky apps

eg: - without OS the developer will have to write manony management and all code along with how the applications work. 20 to anotomet & about

Tiktok -> 50MB + 700 MB

Splication code other codes.

Official of this resources in efficient / Reliability/Martarally

with operating system the developer only needs to work about how will the application work and no need to know anything about how memory is managed, etc. as it is all hardled by Tiktok - 50 MB (1) Meximan application code E without as here also violetes DRY poinciple 3 Tiktok Application Memory management code

Application code - Application code 3 Isolation & protection Same Now Robots without OS was sobots might write something is memory of pubg which can lead to security violetions I abbut & - loo'l. oversided to o'l. Lp. with os it will logically stose Pubg War Robots I the this The process to is executed but it memory protection and isolation · Access to the computer herdware. Interface between the user and the computer hardware. · Resource management (Aka, Arbitration) · Hides the underlying complexity of the hardware (Aka, Abstraction)

Lig: - Bulky apps

Functions

· Facilitates execution of application programs by providing isolation and protection.