flesyster	n Network	Subsystem.
	Marian T	
Memory	Process	prives.
lanagement	Management	HARITE

Monolithic Kernel

27 Structured Layered:-

- Loyed Structure is type of system Structure in which the different Services of operating system are split into various Loyers, where back loyer has specific well-defined task to perform

Structures Like monolithic structure(unix) & 8 mpo

*Fach Loyer must have a specific function to perform.

1) the outermost layer must be the User Interface hope.

2) The Innermost Layer must be the Hordware hoper.

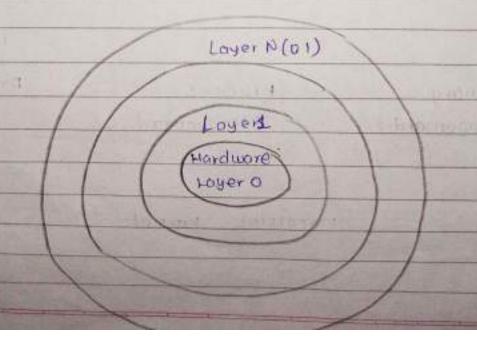
3) Particular layer (an access the layers present below.

14 but it cannot access the layers present above it.

17 mit 15 layer n-1 (an access all layers from n-2.

10 but it cannot access with layer.

18 Thus 15 the User layer wants to interact with hardware layer the Response will be travel through all layers from n-1 to 1.



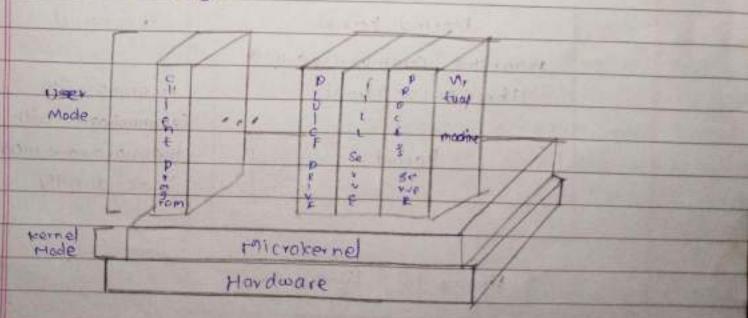
ethips the kernel of any unnecessary parts systems and user applications are used to implement these optional kernel components so micro kernels is the name given to these systems that have been developed.

removing all non-essential components from the kernel and Implementing them as System and user programs. This fesults in Smaller kernel called the microtel. Advantages of this structure are that all new Services need to be added to user space and does not require the kernel to be medified. Thus it is more secure f reliable as If a service fails, the rest or as remains untownched.

Advantages:

- It makes as Partable to various platforms.

- As microkernels are small so these our be tested



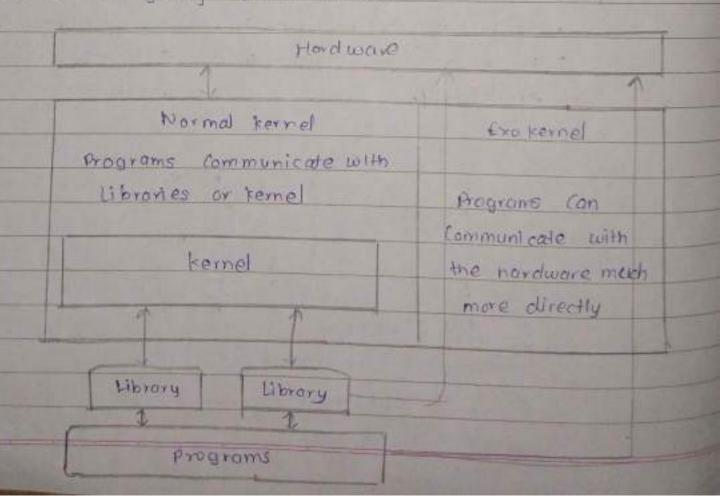
From protection the experience of the application of the protection of the protection of the protection of the experience of the experienc

- The OS will always have an impact on the functionality, performance, and Scape of apps that are developed on it because it sits in between the Software and the hardware.

The exokernel Os makes an attempt to Address this problem by Rejecting the notion that an -

operating System must provide abstractions upon .

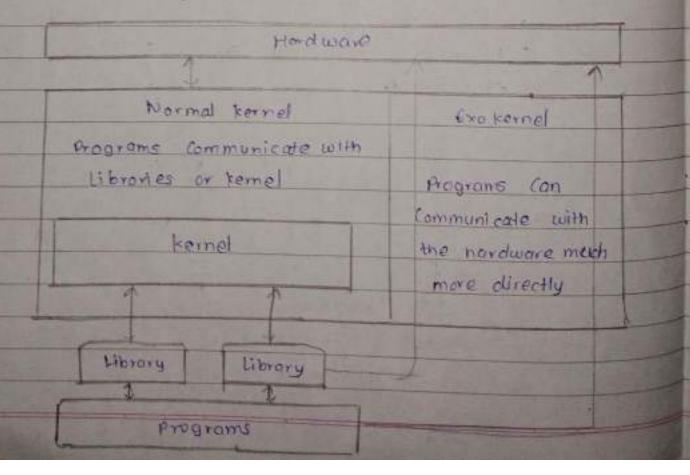
which to base applications. The objective is to Winter developers use of abstractions as little as possible while Still giving them freedom



MIT to Provide application level management of narchware resources. By separating Resource management from protection, the explication orbitecture aims to emple application specific customization. Due to its limited operability, explored size typically tends to be minimal.

- The 05 will always have an impact on the functionality, performance, and Scape of apps that are developed on it because it sits in tetween the Software and the hardware.

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which to base applications. The abjective is to Winter developers use of abstractions as little as possible while Still giving them freedom



a combination of both monolithic-ternel structure and micro kernel structure.

Basically, it combines properties of both monolithic and micro-kernels and mate a more advance of helpful approach.

14 Implement Speed and design of monolithic and modularity and stability of micro rernel Structure

· Advartages!

- edvantages of both Structure in it.
- * It supports a wide range of hardware &
- · It Provides better Isolation of Security by Implementing microtel approach.

· Dis Advantages -

- Implementing both structure (monolithe & micro) and making the System difficult to Understand.
- . The Layer of Communication between micro-kerne and other component increases time complexity and decreases performance compared to more lithic kernel