

LSP - Task - 1

Linux Kernel Architecture

User Space

Library Interface

Kernel Space

Scheduler
Manages CPU
resources allocation
and process
scheduling

Memory
Management
Handles
Memory

File
System
Provides
Interface

Network
Stack
Implement
network

Process Scheduler :- Manages process execution. Allocates CPU time efficiently and fairly

Memory Management :- Handles RAM allocation and Virtual memory and Paging

File System :- organize and handle file storage and access

Network stack :- Facilitates network communication using standard protocol

Device driver :- Enable communication between the kernel and hardware devices