

Characteristics or features of Unix

- 1) It is a freeware software
i.e. If you want to use this operating system then no need to pay
- 2) It is open-source software
i.e. Source code is open. If you are not satisfied with given features then you can modify it.
- 3) It is multi-user operating system.
- 4) It is multi-tasking operating system.
- 5) It is user friendly and support for both (CLI- Command Line Interface
GUI-Graphical Use Interface)
- 6) It is more secure than windows OS
- 7) It is more powerful than other operating system.

Flavours of Unix

As Unix is introduced in 1960s.
but with lots of extensions and improvement to base version
several flavours are introduced by Organization
Like RedHat, Linux, Ubuntu, Kali, Suse, CentOS, Fedora, Open Solaris etc

If want to see different flavours then visit distrowatch.com

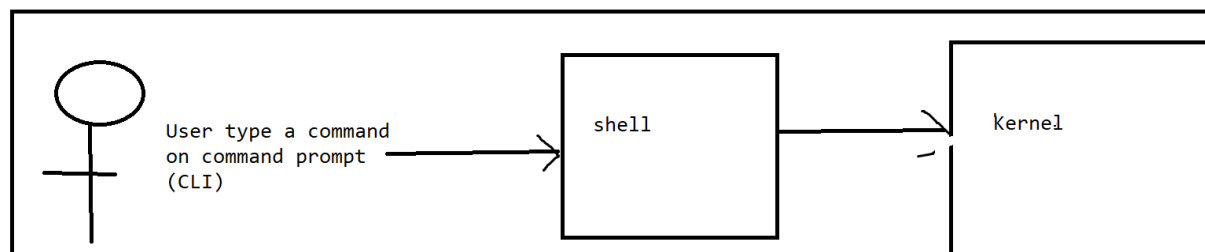
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Component of Unix

Unix has two components

- 1) shell 2) Kernel

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shell --> shell is outer layer of OS
--> shell read a command provide by user
---> it check validness and correctness of provided command.
---> Here, validness means checking provided command is available or not
--> Here, Correctness means provided command is used in proper way or not

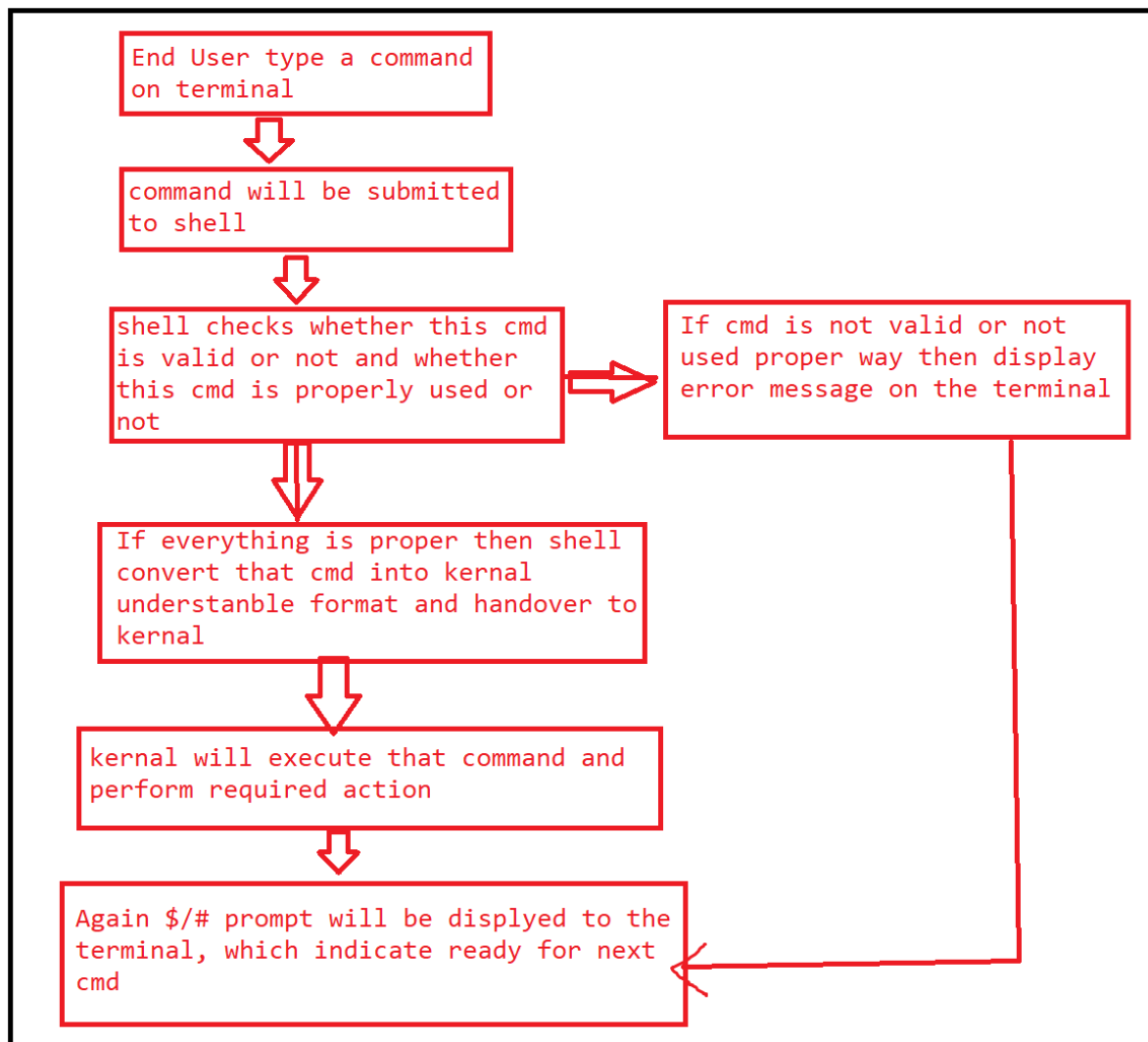
If evrything is proper then shell interpret/convert that command into kernel
understanble format and handover that command to kernel

shell acts as interface between user and kernel

Kernel :

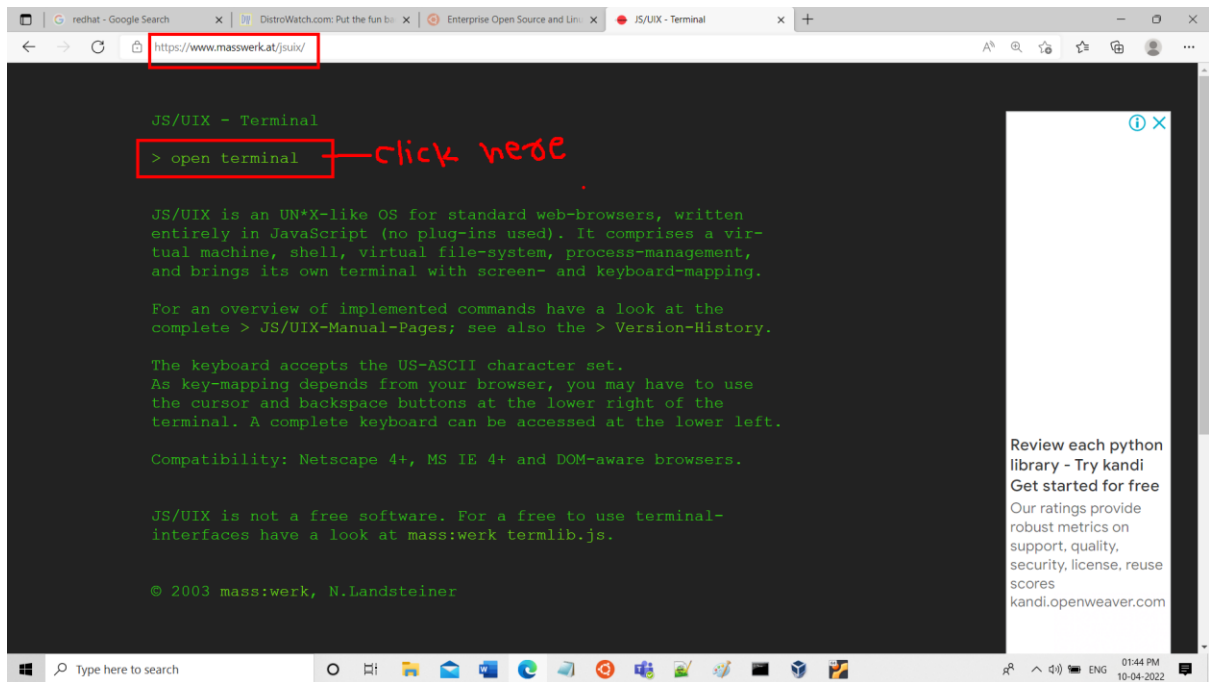
- > Kernel is core component of Unix OS
- > Kernel is responsible to execute our command with help of hardware component
- > memory allocation and processor allocation will take care by Kernel
- > Kernel acts as interface between shell and hardware component

Command Execution flow

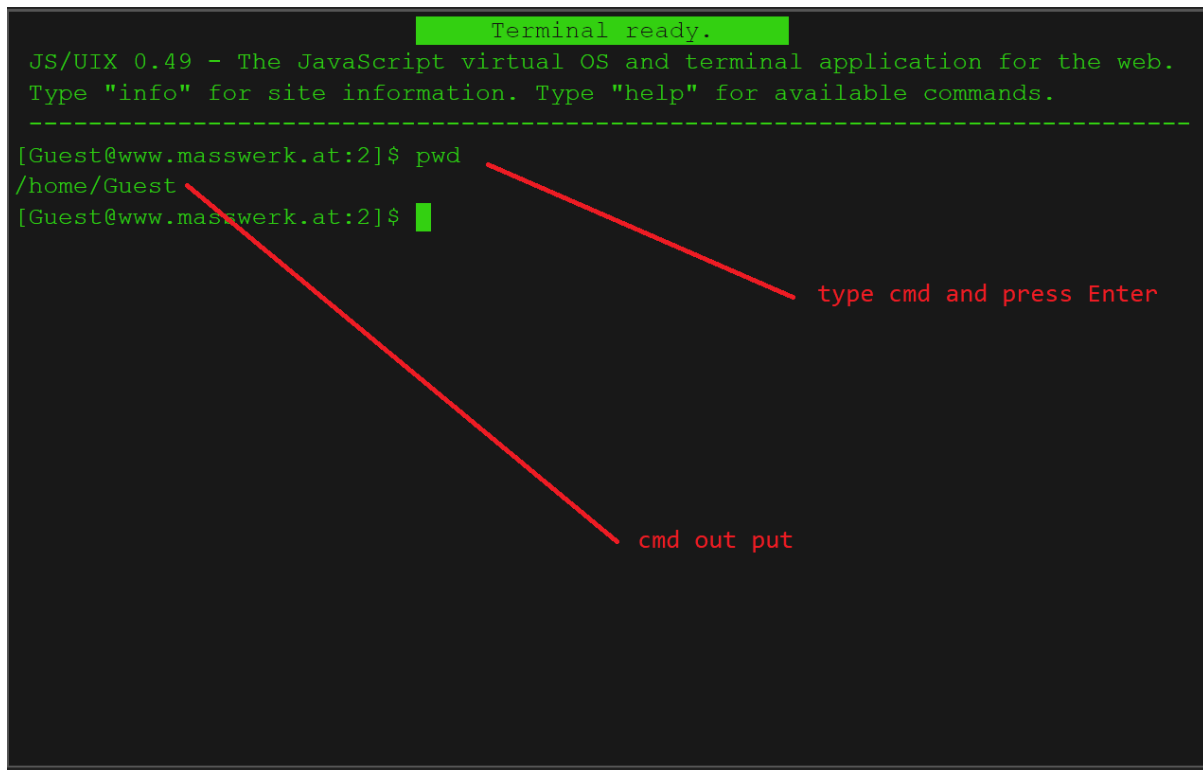


If we want practice on command then there is online platform is there

visit <http://www.masswerk.at/jsuix>



```
Terminal ready.  
JS/UNIX 0.49 - The JavaScript virtual OS and terminal application for the web.  
Type "info" for site information. Type "help" for available commands.  
-----  
[Guest@www.masswerk.at:2]$ pwd  
/home/Guest  
[Guest@www.masswerk.at:2]$
```



Interview Questions

Q. What is Unix?

Q. What are the features of Unix?

Q. What are the characteristics Unix?

Q. What are the components of Unix?

Q. what is use of shell?

Q. what is use of Kernel?

Q. Who executes a command in Unix/Linux?

Ans: Kernel is executed command and give output

Q. State the different flavours of Unix?

Q. What is difference between Unix and Linux?

Ans: Unix is operating system which is introduced in 1960s

and this Unix is considered as base version. on that base version
Linux is introduced. Linux is flavour of Unix

