Operating Systems (CSE231) Assignment-1: Creating a Shell using Processes and Threads Documentation

Harshil Mital 2021050 CSE

Commands H	landled	:
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- a) Internal Commands:
 - 1) cd
 - 2) echo
 - 3) pwd
 - 4) exit
 - 5) clear
- b) External Commands:
 - 1) ls
 - 2) date
 - 3) mkdir
 - 4) rm
 - 5) cat

Command: cd

Options: cd [-L | -P]

- -L: Handle the operand dot-dot logically; symbolic link components shall not be resolved before dot-dot components are processed.
- -P : Handle the operand dot-dot physically; symbolic link components shall be resolved before dot-dot components are processed.

Command: echo

Options: echo [-n | -h]

-n : Removes end of line character (\n) from input string arguments

-h : Provides Information about using echo				
Command: pwd				
Options: pwd [-L -P]				
-L: Instructs pwd to output the \$PWD environment variable contents, including symbolic links. If no option is specified, pwd assumes -L.				
-P: Prints the path to the current directory. All the components are directory names, and symbolic links are resolved.				
Command: ls				
Options: ls [-a -m]				
-a : do not ignore entries starting with .				
-m : fill width with a comma separated list of entries				
Command: date				
Options: date [-u]				
-u : outputs UTC time				
Command: mkdir				

Command: rm

Options: mkdir [-v]

-v : print a message for each created directory

Bibliography:

https://www.geeksforgeeks.org/c-program-to-read-contents-of-whole-file/ https://github.com/patoliyam/Basic-Shell-Implementation-in-C/blob/mast er/group-29-c-shell.c

https://github.com/josealonso/microshell/blob/master/src/msh.c

https://www.youtube.com/watch?v=S7M6pGCcjMc

https://linux.die.net/man/1/date

https://man7.org/linux/man-pages/man1/cd.1p.html

https://phoenixnap.com/kb/pwd-linux

https://codescracker.com/c/program/c-program-print-date.htm

https://github.com/yaduoo7/Basic-Unix-Commands-Implementation/blob/

master/cat.c

https://man7.org/linux/man-pages/man1/mkdir.1.html

https://www.tutorialspoint.com/c standard library/c function getenv.ht m

Operating Systems: Three Easy Pieces by Andrea Arpaci-Dusseau and Remzi Arpaci-Dusseau