Custom Shell

- -> A Custom shell written in C language, supporting four internal and 5 external library commands with Multithreaded and Multiprocessor Options.
- -> Use of standard C libraries, including Linux system calls such as fork(), exec() family system calls and wait() family of system calls.
- -> Use of Linux system thread creation calls such as pthread_create(), pthread_join(), pthread_exit(), system() family system calls and wait() family of system calls.

Internal Commands Supported

- pwd
- cd
- echo

External Commands Supported

- Is
- cat
- date
- rm
- mkdir

Installation

```
# clone the repo
$> git clone https://github.com/arnavgupta2003/Custom_Shell_1.git

# change the working directory to src
$> cd src

# run the makefile
$> make -f MakeFile
OR
$> make
```

Usage

```
$ [COMMAND] -h
Available commands.

cd
pwd
echo
ls
cat
date
rm
mkdir
```

cd optional arguments:

-h, --help show this help

-v, --verbose display information regarding changes

-f, force changes

pwd optional arguments:

-h, --help show this help

-L, --cwd print the value of \$PWD if it names the current working directory

-P, --physical print the physical directory, without any symbolic links

echo optional arguments:

-h, --help show this help

-n, do not output the trailing new line-v, --verbose Describe each event as it occurs

ls optional arguments:

-h, --help show this help

-d, --directory list directories themselves, not their contents

-a, --all do not ignore entries starting with .

cat optional arguments:

-h, --help show this help

-E, --show-ends display \$ at end of each line

-n, --number number all output lines

date optional arguments:

-h, --help show this help-t, --show-time display only time-d, --show-date display only date

rm optional arguments:

-h, --help show this help

-f, --force ignore nonexistent files and arguments, never prompt

-v, --verbos Explain what is being done

mkdir optional arguments:

-h, --help show this help

-p, --parents no error if existing, make parent directories as needed

-v, --verbos Explain what is being done

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