

File Manager Project

Work From Faraz Hmd

Overview Of This File Manager

- ❖ File managers Can do some work like copy & paste & cut \move & and Modifying file and folder
- ❖ Some File Manager Have GUI for Their options . Let Be honest .. work with GUI is very Easier way !
- ❖ But The Most Of SuperUser or Advanced User Love To Work In CLI or TUI(Text-base User Interface) .
- ❖ **CLI and TUI have Direct access to Disk without any intermediaries** . So I decided to develop this project exactly as it is! ... an area with very familiar like CLI. so I found The TUI !!

((History of computer science))

- ❖ For More Information !
- ❖ An Operation System With only CLI and TUI : <https://en.wikipedia.org/wiki/MS-DOS>



The TUI area

Left	File	Command	Options	Right
/software				/etc
	Name	Size	MTime	
./..		4096	Oct 2 04:02	
/ICAClient-3.0		2048	Jan 6 2003	
/aida-2.1.1		2048	Apr 28 2003	
/amber-6.0		2048	Feb 27 2004	
/amber-7.0		2048	Mar 5 2004	
/amber-7.0p		2048	Apr 16 2004	
/amber-8		2048	Dec 22 2004	
~ansys61		34	Jan 7 2003	
~ansys71		34	Nov 28 2003	
/ant-1.6		2048	Aug 10 13:26	
/apache-1.3.27		2048	Dec 16 2002	
/apache-1.3.28		2048	Jan 6 2004	
/apache-1.3.33		2048	Feb 7 2005	
/autoconf-2.57		2048	May 27 2004	
/autodock-305		2048	Jan 5 2001	
				/cron.d

Hint: Keys not working in xterms? Use our xterm.ad, .ti and .tcap files.

aisa:/software> \$ [^]
 1Help 2Menu 3View 4Edit 5Copy 6RenMov 7Mkdir 8Delete 9PullDn 10Quit

Synchronet Main Menu

Read/Post Messages	Message Area Selection	Electronic Mail
N New message scan R Read message prompt Z Continuous new scan B Browse new scan Q QWK packet transfer	J Jump to new msg area	E Read/Send E-mail
P Post a message A Post auto-message	* List sub-boards /* List groups { } # Select sub-board []/# Select group	Other Commands
F Find text in messages S Scan for msgs to you	T File Transfer section G Text file section C Chat section X External programs	D Default user config & Message scan config U User lists I Information M Minute Bank /L Node activity ^K Ctrl-key Menu
	Go to	O Logoff BBS (or /0)
		Anytime: Ctrl-U Who's online Ctrl-P Send private msg Ctrl-C Abort cmd/text
		Main • 0:00:14 [1] Main [1] Notices: []

Several basic operations in the file manager :

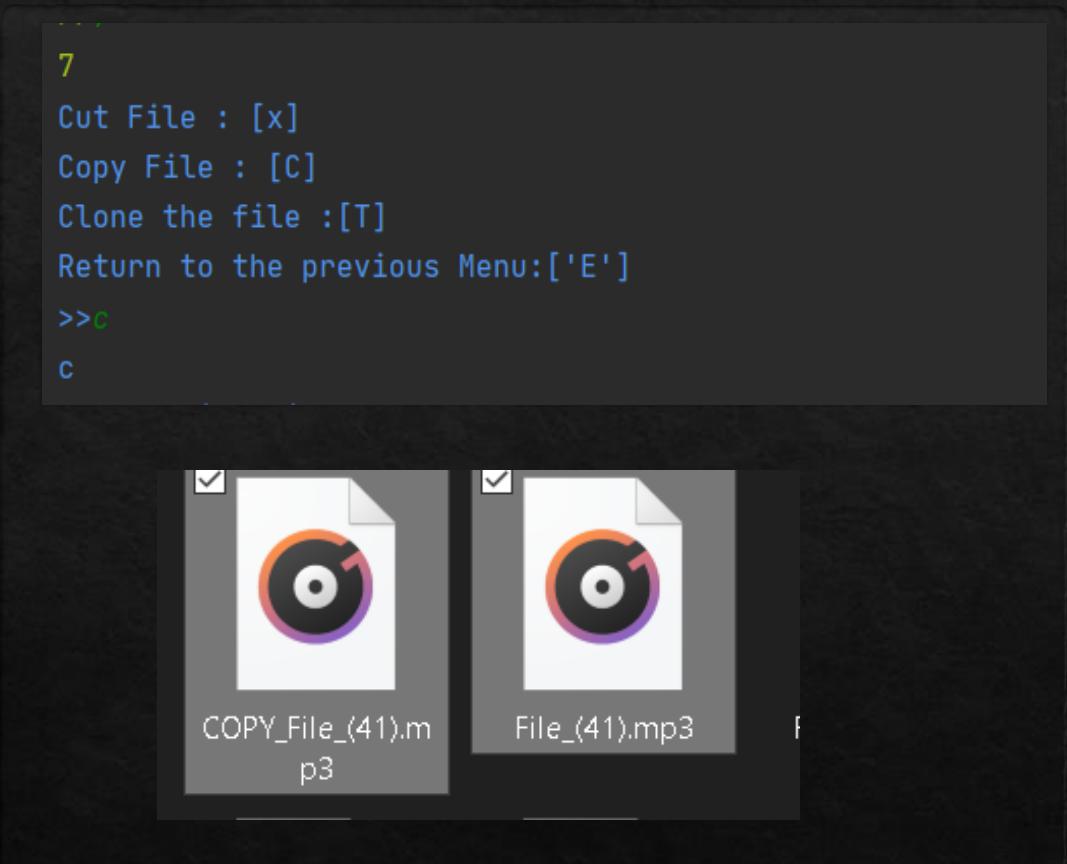
- Copy , Cut , Delete ,Create , Modify (Edit Contents && Rename)
- **Editing Contents** of text file is another useful work that file managers most do very well .. In This File Manager You Simply Select You File With Type the name or path of file ... and then entering new content or delete some content ... easy no ?
- **Copy File** is another work .. For Copy a file in this file manager you enter the name of file(source name) and choosing the **dst dir** (destination Directory)
- **Cut File** .. Implementation The “ Move a File” have very Difficult and complicated syntax,I will explain later .. But if I explain how it work in this file manager First you must Enter Your file name ; second your dst dir
- **Delete File**.. For delete a file in this file manager you enter the **src** name (source name) and its done!
- **Modifying File** .. 1: For Rename a File ; first You enter the src name and second you enter the new name .. 2: for edit contents of a file ; first you enter the src name .second you enter some new content or del some old contents

..

- ❖ Creations (File & Folder) :

- ❖ Create a file or Folder is another most popular work that file manager can handle ..
- ❖ But One Question which File manager with GUI can create 100 file or folder at same time !!
- ❖ For this work some people create a script or use cli (cmd , bash ,).
- ❖ But in this file manager for this important and cool work you just need to first set the extension of file .. Second enter how math file you want and its Done ..(creating folder is more easy ..just enter number of folder you want)
- ❖ Working with this program allows you to do some activities that you may have seen in fewer file managers.
- ❖ Like Cloning .. I will explain more about this in the following pages

Copy File in file manager



```
01/17/2022 08:44 PM      0 File_(41).mp3
01/17/2022 08:44 PM      0 File_(4845).mp3
01/17/2022 08:44 PM      0 File_(506).mp3
01/17/2022 08:44 PM      0 File_(5455).mp3
01/17/2022 08:44 PM      0 File_(5715).mp3
01/17/2022 08:44 PM      0 File_(6336).mp3
01/17/2022 08:44 PM      0 File_(9975).mp3
                                20 File(s)      0 bytes
                                2 Dir(s) 186,368,110,592 bytes free

Enter Source File Name (with extension): >>File_(41).mp3
File_(41).mp3

COPY on different Dir : ['Y']  |or| continue With Current Dir : Press any key ['']
>>

d
d

Enter Target Name By Your self : ['i']
Fill Target name automatically : ['a']
>>i
aa

File |COPY_File_(41).mp3| copied successfully.
```

Delete File in File manager

```
For Delete one File      : ['1']
For Delete Multiple Files : ['2']
Return to the previous Menu:[ '5']
QUIT : [0]>>1
1
Volume in drive C has no label.
Volume Serial Number is 1601-F634

Directory of c:\test\folder1

01/17/2022  08:38 PM    <DIR>        .
01/17/2022  08:38 PM    <DIR>        ..
01/17/2022  08:38 PM                0 sd
                           1 File(s)          0 bytes
                           2 Dir(s)  186,373,230,592 bytes free
Enter The File Name You want Del
>>sd
sd
The file is deleted successfully.
```

Create File

```
what type file you want create ?  
<< OPTIONS >>  
Music Files Enter :['M']  
Picture File Enter :['P']  
Text Files Enter :['T']  
Others Extension Enter :['O']  
Return to the previous Menu: ['R']  
Quit : ['Q']
```

```
>>m  
m
```

```
exit : [ 0 ]  
>>2  
2  
how much file you want create  
It is recommended that the number of files created should not exceed 255 at a time  
>>20  
20  
do you want to enter the names yourself : Enter 'y' or 'n'  
>>n  
n  
File File_(41).mp3 created successfully  
File File_(18468).mp3 created successfully  
File File_(6336).mp3 created successfully  
File File_(26503).mp3 created successfully  
File File_(19173).mp3 created successfully  
File File_(15729).mp3 created successfully  
File File_(11484).mp3 created successfully  
File File_(29365).mp3 created successfully  
File File_(26970).mp3 created successfully  
File File_(24473).mp3 created successfully  
File File_(5715).mp3 created successfully  
File File_(28156).mp3 created successfully
```

Rename File

```
Edit the File content : ['5']
To set The Extension of file or files : ['6']
Copy & Move & Clone File : ['7']
TO Change Working Dir :['8']
TO see working dir :['9']
Return to the previous menu: ['10']
Exit : ['0']

>>4
Volume in drive C has no label.
Volume Serial Number is 1601-F634

Directory of c:\test

01/17/2022  09:17 PM    <DIR>          .
01/17/2022  09:17 PM    <DIR>          ..
01/17/2022  09:15 PM    <DIR>          MY_FOLDER
01/17/2022  09:15 PM    <DIR>          New folder (2)
01/17/2022  09:15 PM    <DIR>          New folder (3)
01/17/2022  09:15 PM    <DIR>          New folder (4)
01/17/2022  09:17 PM          0 New Text Document.txt
                           1 File(s)      0 bytes
                           6 Dir(s)  186,354,900,992 bytes free
Enter the File Name you want to rename :
>>New Text Document.txt
Enter the new Name :
>>MY_TEXT.txt
Volume in drive C has no label.
Volume Serial Number is 1601-F634

Directory of c:\test

01/17/2022  09:17 PM    <DIR>          .
01/17/2022  09:17 PM    <DIR>          ..
01/17/2022  09:15 PM    <DIR>          MY_FOLDER
01/17/2022  09:17 PM          0 MY_TEXT.txt
01/17/2022  09:15 PM    <DIR>          New folder (2)
01/17/2022  09:15 PM    <DIR>          New folder (3)
01/17/2022  09:15 PM    <DIR>          New folder (4)
                           1 File(s)      0 bytes
                           6 Dir(s)  186,354,769,920 bytes free

|New Text Document.txt| >>> |MY_TEXT.txt|
Name changed successfully
```

Editing Contents

MY_TEXT.txt - Notepad
File Edit Format View Help
TEST 1234

I Put some Data To My Text File !!

```
C:\Users\Ghost\Desktop\Programming\C\File Manager\Build\File_Manager.exe
Exit : ['0']
>>5
Volume in drive C has no label.
Volume Serial Number is 1601-F634

Directory of c:\test

01/17/2022 09:17 PM <DIR> .
01/17/2022 09:17 PM <DIR> ..
01/17/2022 09:15 PM <DIR> MY_FOLDER
01/18/2022 10:43 AM 16 MY_TEXT.txt
01/17/2022 09:15 PM <DIR> New folder (2)
01/17/2022 09:15 PM <DIR> New folder (3)
01/17/2022 09:15 PM <DIR> New folder (4)
    1 File(s)      16 bytes
    6 Dir(s) 186,734,510,080 bytes free
See Content Of File : ['1']
Edit Content Of File : ['2']
Delete Some Content Of File : ['3']
>>2
Enter The Name Of Target File
>>MY_TEXT.txt

Enter data to append: I Put some Data To My Text File !!

Successfully appended data to file.
```

MY_TEXT.txt - Notepad
File Edit Format View Help
TEST 1234

I Want To Delete this Line !!

```
The Changes Was Successfully saved

create one file : ['1']
create multiple files : ['2']
For Deleting File : ['3']
Rename File : ['4']
Edit the File content : ['5']
To set The Extension of file or files : ['6']
Copy & Move & Clone File : ['7']
To Change Working Dir : ['8']
To see working dir : ['9']
Return to the previous menu: ['*']
Exit : ['0']
>>5
Volume in drive C has no label.
Volume Serial Number is 1601-F634

Directory of c:\test

01/18/2022 10:46 AM <DIR> .
01/18/2022 10:46 AM <DIR> ..
01/17/2022 09:15 PM <DIR> MY_FOLDER
01/18/2022 10:47 AM 51 MY_TEXT.txt
01/17/2022 09:15 PM <DIR> New Folder (2)
01/17/2022 09:15 PM <DIR> New Folder (3)
01/17/2022 09:15 PM <DIR> New Folder (4)
    1 File(s)      51 bytes
    6 Dir(s) 186,735,755,264 bytes free
See Content Of File : ['1']
Edit Content Of File : ['2']
Delete Some Content Of File : ['3']
>>3
Enter The Name Of Target File
>>MY_TEXT.txt
Input the line you want to remove : 2
```

Create Folder

> test > FOLDER1 >



```
Create one Folder :      ['1']
Create multiple Folders :  ['2']
Deleting Folders :        ['3']
Return to the previous Menu :  ['4']
Rename Folder      :  ['5']
TO See working dir   :['8']
TO Change Working Dir :['9']
Exit :                  ['0']
>>2
2
how much folder you want create ?
It is recommended that the number of files created should not exceed 255 at a time>>5

do you want to enter the names yourself : Enter 'y' or 'n'
>>n
n
Directory New_Folder_(6334) created
Directory New_Folder_(26501) created
Directory New_Folder_(19171) created
Directory New_Folder_(15727) created
Directory New_Folder_(11482) created
```

Delete Folder

```
Delete One Folder : [1]
Delete Multiple Folder: [2]
Return to the previous Menu:['3']
TO Change Working Dir & see working dir :['6']
QUIT : [0]
>>1
Volume in drive C has no label.
Volume Serial Number is 1601-F634

Directory of c:\test

01/17/2022  09:08 PM    <DIR>    .
01/17/2022  09:08 PM    <DIR>    ..
01/17/2022  09:07 PM    <DIR>    New folder (2)
                           0 File(s)          0 bytes
                           3 Dir(s) 186,362,474,496 bytes free
Enter The path of folder to delete
New folder (2)
The Folder [New folder (2)] is deleted successfully.
```

Rename Folder

```
Rename Folder      . . . : ['5']
    TO See working dir   :['8']
    TO Change Working Dir :['9']
    Exit :           ['0']
>>5
    Volume in drive C has no label.
    Volume Serial Number is 1601-F634

    Directory of c:\test

01/17/2022  09:15 PM    <DIR>      .
01/17/2022  09:15 PM    <DIR>      ..
01/17/2022  09:15 PM    <DIR>      New folder
01/17/2022  09:15 PM    <DIR>      New folder (2)
01/17/2022  09:15 PM    <DIR>      New folder (3)
01/17/2022  09:15 PM    <DIR>      New folder (4)
          0 File(s)        0 bytes
          6 Dir(s)  186,358,996,992 bytes free
Enter the File Name you want to rename :
>>New folder
Enter the new Name :
>>MY_FOLDER
    Volume in drive C has no label.
    Volume Serial Number is 1601-F634

    Directory of c:\test

01/17/2022  09:16 PM    <DIR>      .
01/17/2022  09:16 PM    <DIR>      ..
01/17/2022  09:15 PM    <DIR>      MY_FOLDER
01/17/2022  09:15 PM    <DIR>      New folder (2)
01/17/2022  09:15 PM    <DIR>      New folder (3)
01/17/2022  09:15 PM    <DIR>      New folder (4)
          0 File(s)        0 bytes
          6 Dir(s)  186,357,747,712 bytes free

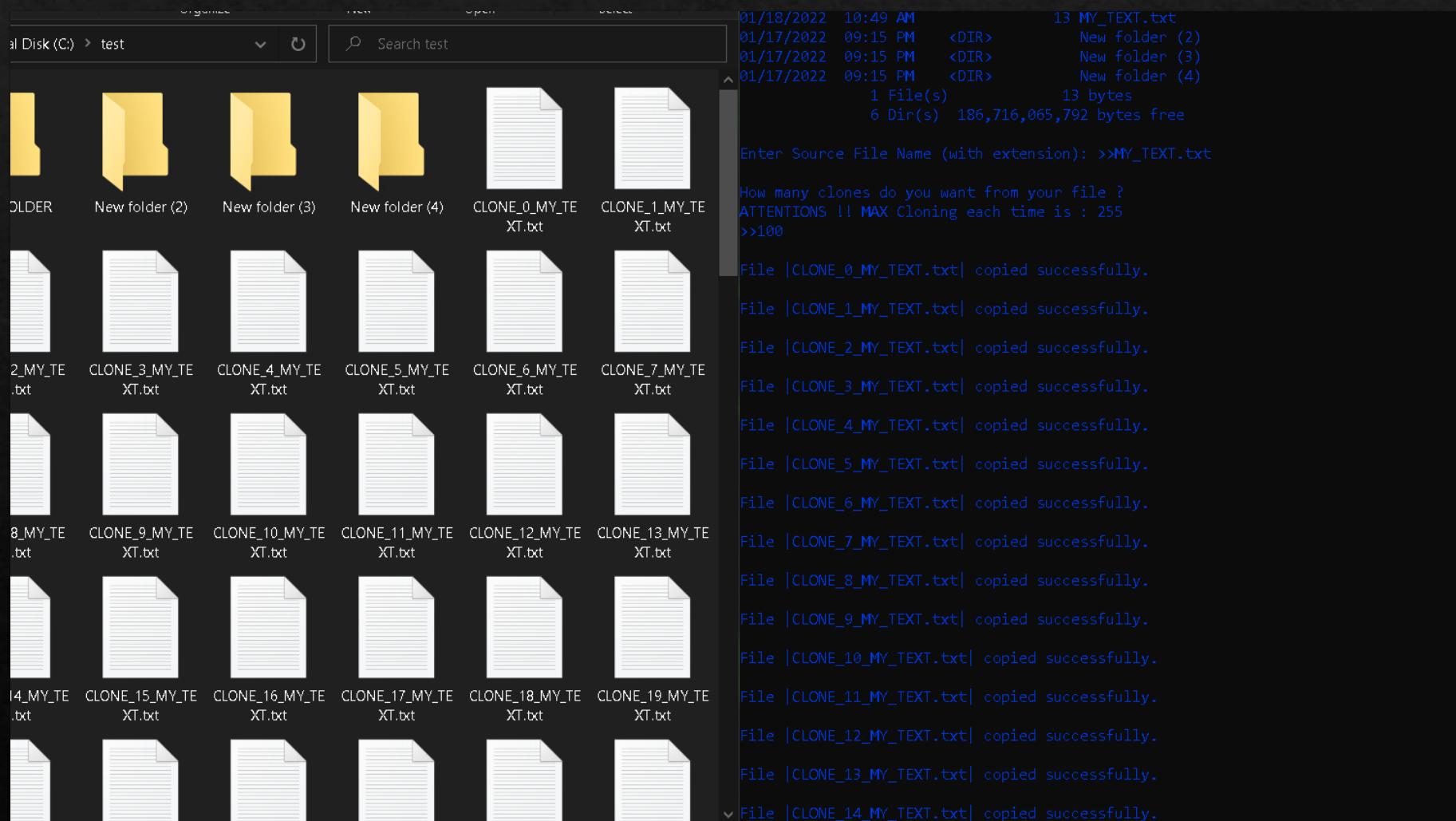
| New folder |  >>>  | MY_FOLDER |

Name changed successfully
```

Cloning File

- ❖ The Cloning may be is an **idea of Star Wars**, but it is also used in **computer science** !!
- ❖ When you want to duplicate a file into dozens of copies .. There is no way in GUI ... except using the CLI (bash , cmd , powershel ,....) or some programs to do this for you !
- ❖ This important & cool operation let you to distribute your copy file to dozen location .
- ❖ If you looking for avoiding the slowly (copy , paste)in GUI This File Manager Is the Answer .

Cloning File



Implement (Move a File)

- ❖ According the what I say Implement the (Cut a file) have **difficult Syntax ..**
- ❖ When you think deeply about this, you realize that this operation is actually a combination of two operations, Deleting and Copying .
- ❖ But If you want to do that at same time it does not work properly .
- ❖ Because if I start to copy a file and maybe that file is already deleted !!

Solution Of This Problem Issues is A processing lock called MUTEX ..

- ❖ Mutex let the copy operation start and wait for it to finish ..and then let the delete operation Start
- ❖ (Move OPS):Copying old file to new location and delete the old file from Previous location .

Final Conclusion

- ❖ This project just like any other project have some downside and some positive points ..
- ❖ Some feature in this File Manager are very good .. And some feature maybe have weakness

THE END