

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 .
- ❖ **CLI LET YOU DO ANYTHING** . So That I Chose TO Develop this Project exactly as it is ! ...The Area With CLI .

The cli area

```
[root@localhost ~]# ping -q fa.wikipedia.org
PING text.pmtpa.wikimedia.org (208.80.152.2) 56(84) bytes of data.
^C
--- text.pmtpa.wikimedia.org ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 540.528/540.528/540.528/0.000 ms
[root@localhost ~]# pwd
/root
[root@localhost ~]# cd /var
[root@localhost var]# ls -la
total 72
drwxr-xr-x. 18 root root 4096 Jul 30 22:43 .
drwxr-xr-x. 23 root root 4096 Sep 14 20:42 ..
drwxr-xr-x. 2 root root 4096 May 14 00:15 account
drwxr-xr-x. 11 root root 4096 Jul 31 22:26 cache
drwxr-xr-x. 3 root root 4096 May 18 16:03 db
drwxr-xr-x. 3 root root 4096 May 18 16:03 empty
drwxr-xr-x. 2 root root 4096 May 18 16:03 games
drwxrwx--T. 2 root gdm 4096 Jun 2 18:39 gdm
drwxr-xr-x. 38 root root 4096 May 18 16:03 lib
drwxr-xr-x. 2 root root 4096 May 18 16:03 local
lrwxnwxrwx. 1 root root 11 May 14 00:12 lock -> ../run/lock
drwxr-xr-x. 14 root root 4096 Sep 14 20:42 log
lrwxnwxrwx. 1 root root 10 Jul 30 22:43 mail -> spool/mail
drwxr-xr-x. 2 root root 4096 May 18 16:03 nis
drwxr-xr-x. 2 root root 4096 May 18 16:03 opt
drwxr-xr-x. 2 root root 4096 May 18 16:03 preserve
drwxr-xr-x. 2 root root 4096 Jul 1 22:11 report
lrwxnwxrwx. 1 root root 6 May 14 00:12 run -> ../run
drwxr-xr-x. 14 root root 4096 May 18 16:03 spool
drwxnwxrwt. 4 root root 4096 Sep 12 23:50 tmp
drwxr-xr-x. 2 root root 4096 May 18 16:03 yp
[root@localhost var]# yum search wiki
Loaded plugins: langpacks, presto, refresh-packagekit, remove-with-leaves
rpmfusion-free-updates
rpmfusion-free-updates/primary_db
rpmfusion-nonfree-updates
updates/metalink
updates
Updates/primary_db
    73% [=====] 62 kB/s | 2.6 MB 00:15 ETA
```

```
C:\>picoscope /a ?
0ms: ?
Interactions
    AutoSetup.AutoSetup
    Buffer.Filter
    Buffer.Filtered.First
    Buffer.Filtered.Last
    Buffer.Filtered.Next
    Buffer.Filtered.Previous
    Buffer.Next
    Buffer.Previous
    Channel.#0.AnalogOffset
    Channel.#0.Coupling
    Channel.#0.Enabled
    Channel.#0.LowPass.Enable
    Channel.#0.LowPassCutoff
    Channel.#0.Offset
    Channel.#0.Range
    Channel.#0.Zoom
    Channel.#1.AnalogOffset
    Channel.#1.Coupling
    Channel.#1.Enabled
    Channel.#1.LowPass.Enable
    Channel.#1.LowPassCutoff
    Channel.#1.Offset
    Channel.#1.Range
    Channel.#1.Zoom
    Channel.#2.AnalogOffset
    Channel.#2.Coupling
    Channel.#2.Enabled
    Channel.#2.LowPass.Enable
    Channel.#2.LowPassCutoff
    Channel.#2.Offset
    Channel.#2.Range
    Channel.#2.Zoom
    Channel.#3.AnalogOffset
    Channel.#3.Coupling
```

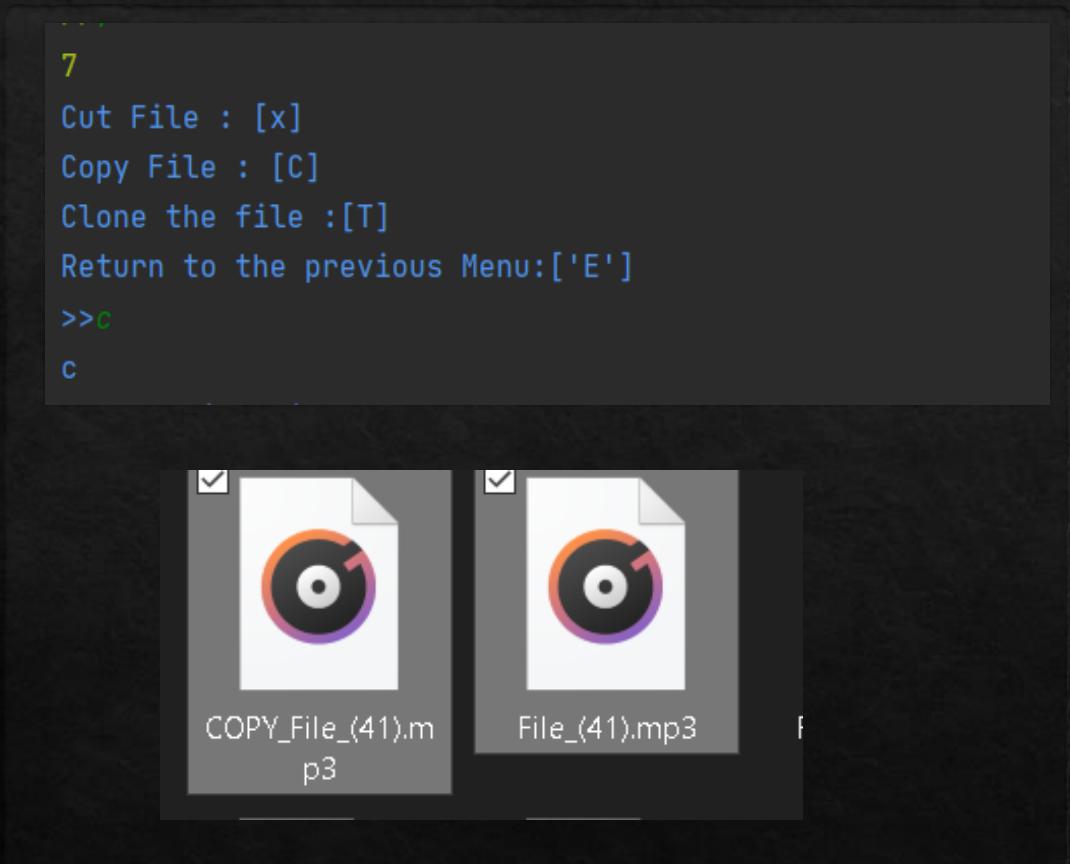
Several basic operations in the file manager :

- 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

TEST 1234

I Put some Data To My Text File !!

```
C:\Users\Ghost\Desktop\Programming\C\File Manager\Build\File_Manager.exe
File Edit Format View Help
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

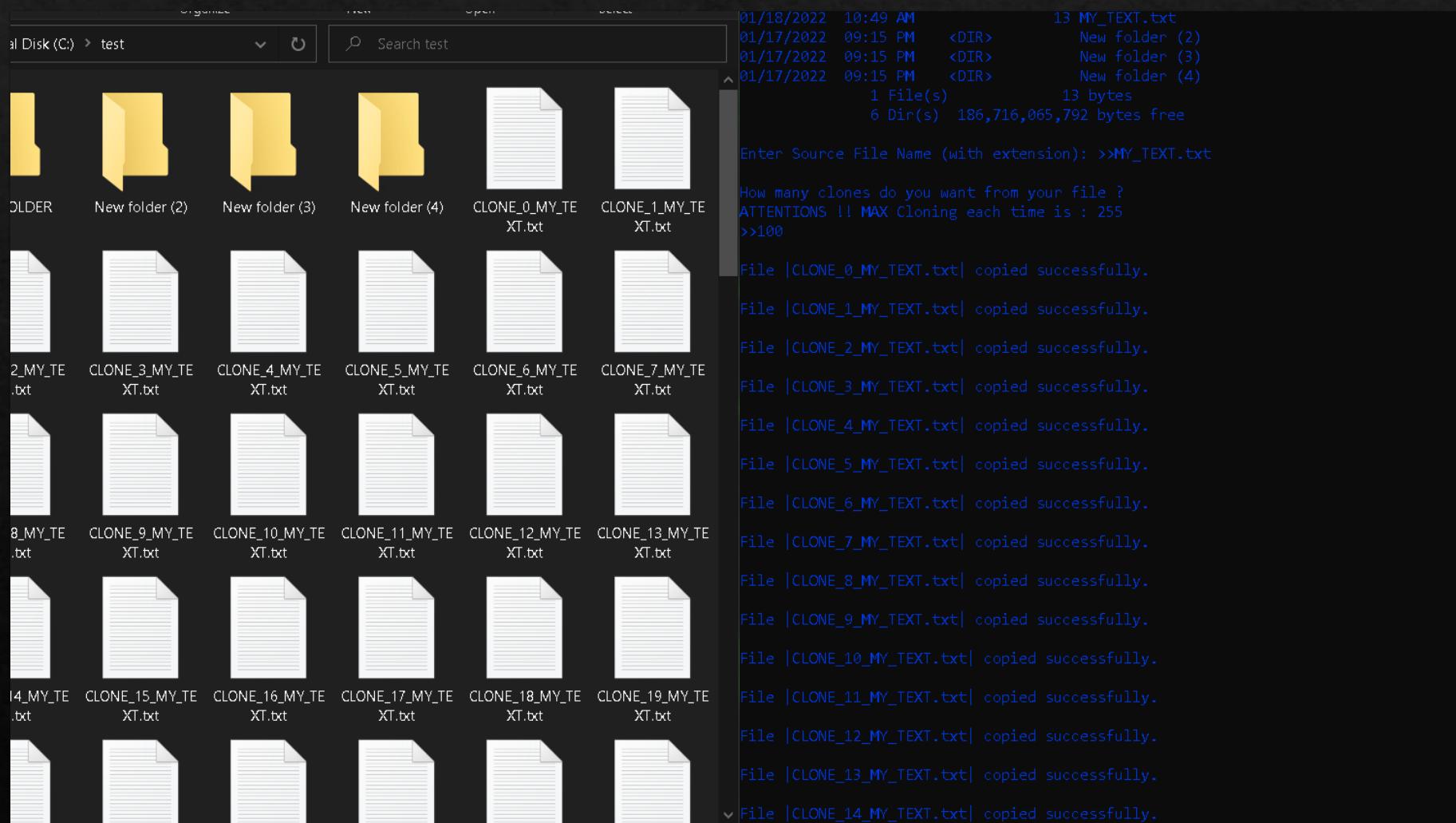
| New folder |  >>>  | MY_FOLDER |

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