

Documentation for client-server application

My code contain two files :

- 1) client.py
- 2) server.py

Command Line Argument for executing both files :

```
python client.py  
python server.py
```

Client GUI Components Explained :-

- 1) Disconnect Client Button :
 - Close Client and notify server that client is disconnected
- 2) Text box
 - Enter client's name.
 - Clients should enter alphabet or digit. If other illegal entered then client will be closed
- 3) Connect button
 - When the user clicks the connect button. Directory will be created based on client's name
- 4) Connected label
 - Connected represent acknowledgement of client
- 5) Text Box
 - Create directory :- enter directory name you want to create
 - Delete directory :- enter directory name you want to delete
 - Move directory :- enter source directory then destination directory following my #
E.g **sourcedir#destination (from source to destination move)**
 - Rename directory :- enter source directory then destination directory following my #
E.g **sourcedir#destination (source directory changed with destination dir)**
- 6) Label
 - List of directory after any directory operation
 - **Assumption**
 - **Directory is not listed before any operation on directory**
 - **List is in directory so please take directory name of one character**

Directory list representation is under list representation :-

```
{{ C:\\ filename1\\filename2 [dir1 , dir2 ] }} {{ dir1 [subdir1 , subdir2]}} {{ dir2  
[subdir1, subdir2]}}
```

Basically passed in list form and displayed in list form only.

7) Create directory

- Create directory of name given in above textbox

8) delete directory

- Delete directory of name given in above textbox

9) Move directory

- Move directory from source name to destination name given in above textbox

Assumption for move directory

- **Please put full path if it is in sub directory (full path means: start with sub directory inside client directory till the directory you want)**

10) rename directory

- Rename directory from source name to destination name given in above textbox

Assumption for rename directory

- **Please put full path if it is in sub directory (full path means: start with sub directory inside client directory till the directory you want)**

11) Synchronize

- Synchronize button for synchronizing directory
Desynchronize button for Desynchronize directory

Server GUI components Explained :-

1. Disconnect Server button :-
 - Disconnect server
2. Label :-
 - List how many clients are connected
 - List will be updated after client connect or disconnect
3. Label :
 - Last operation on directory performed by which server
E.g **Directory delete by client : client_name**

Reference Links (Citation)

- <https://github.com/kenilpatel/Client-server-application/blob/master/client.py>
- <https://github.com/kenilpatel/Client-server-application/blob/master/server.py>
- <https://github.com/kenilpatel/Client-server-application>
- **Assumption**
 - **Directory is not listed before any operation on directory**
 - **List is in directory so please take directory name of one character**
 - **Please put full path if it is in sub directory (full path means: start with sub directory inside client directory till the directory you want)**
 - **Please put full path if it is in sub directory (full path means: start with sub directory inside client directory till the directory you want)**