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C client server app user guide

Application functionality:

The application is able to:

- Get and output the student ID stored within the server as well as the servers IP address
- Get and output the server date and time information
- Get and display the server uname information, including system name, release and version
- Get and display the list of regular files present in the server's upload directory.
- Copy the contents of a requested file over to a file of the same name in the client executables working directory within a file of the same name
- Display the running time of the server when it halts due to sigint reception

Application robustness

The application is generally able to handle all identified errors apart from one. The error that has not been fixed is encountered when trying to view the contents of the upload directory when the upload directory does not exist, an error is output however the server encounters a free error. This was not fixed due to time constraints.

How to run the application

Running the application is fairly simple. The user needs to open two terminal windows, in one window the user should navigate to the client directory and in the other the use should navigate to the server directory. The user will need to run the make file through the make command for the client and server individually if their c files have not been compiled. Once the client and server files have been compiled the user should type ". /server" into the server terminal to run the server program and "./client" to run the client program (./ indicates that program sourced from current working dir). The server must run before the client, otherwise the client will have nothing to connect to and the connection establishment will fail.