**Project 2.7 planning**

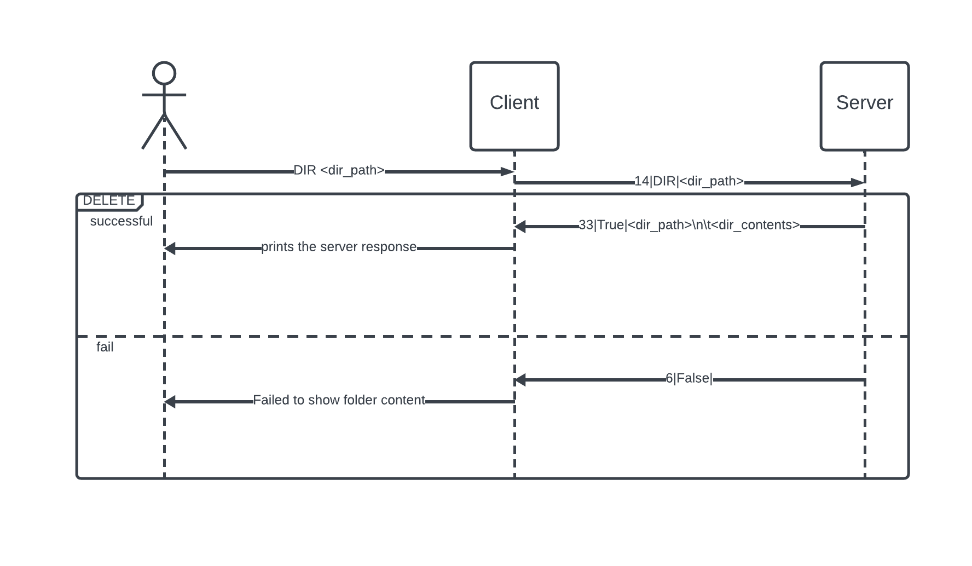
Request response planning – commands:

DIR:

Request: DIR <directory path>

Response:

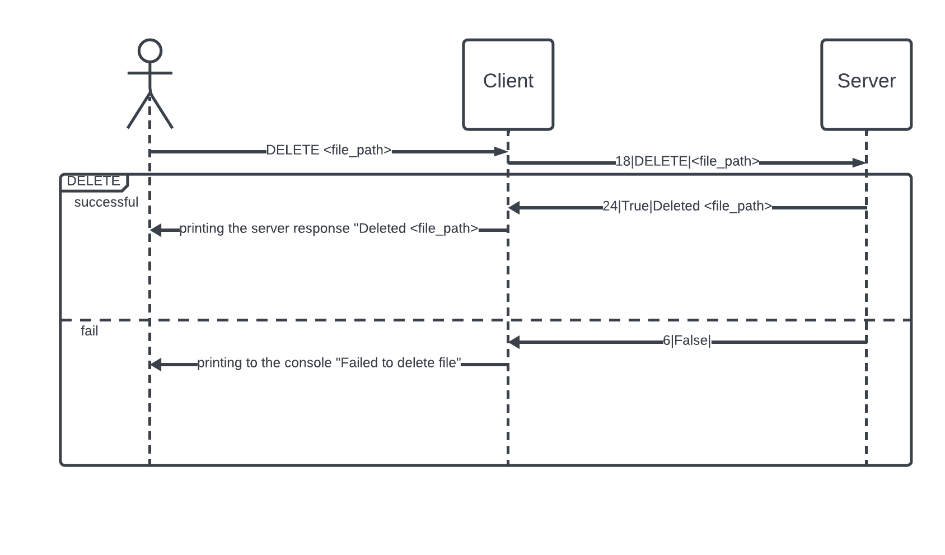
<directory path>:

Folder contents

DELETE:

Request: DELETE <file path>

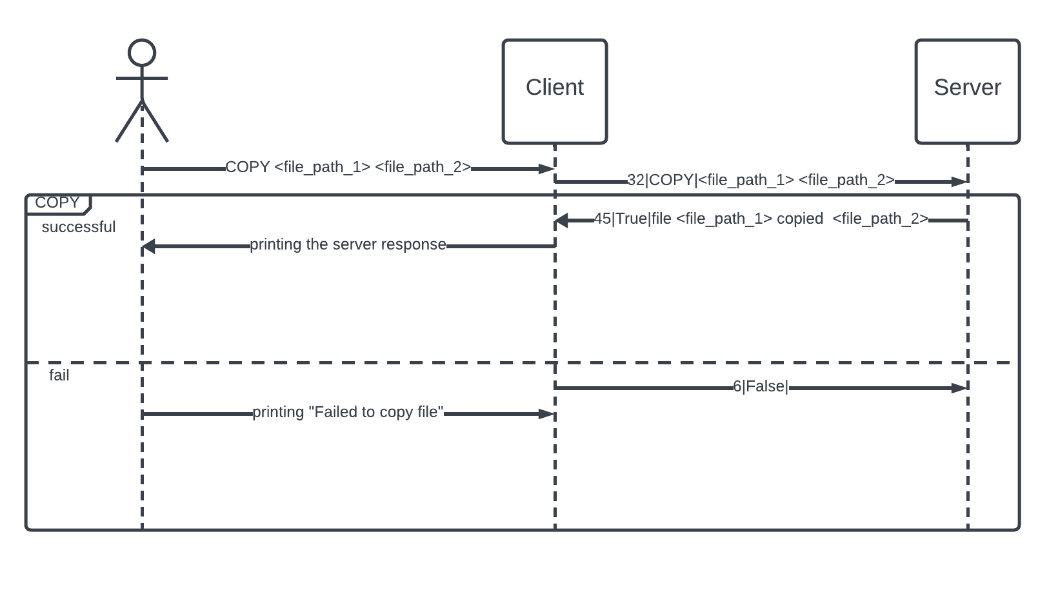
Response: Deleted - <file path>



COPY:

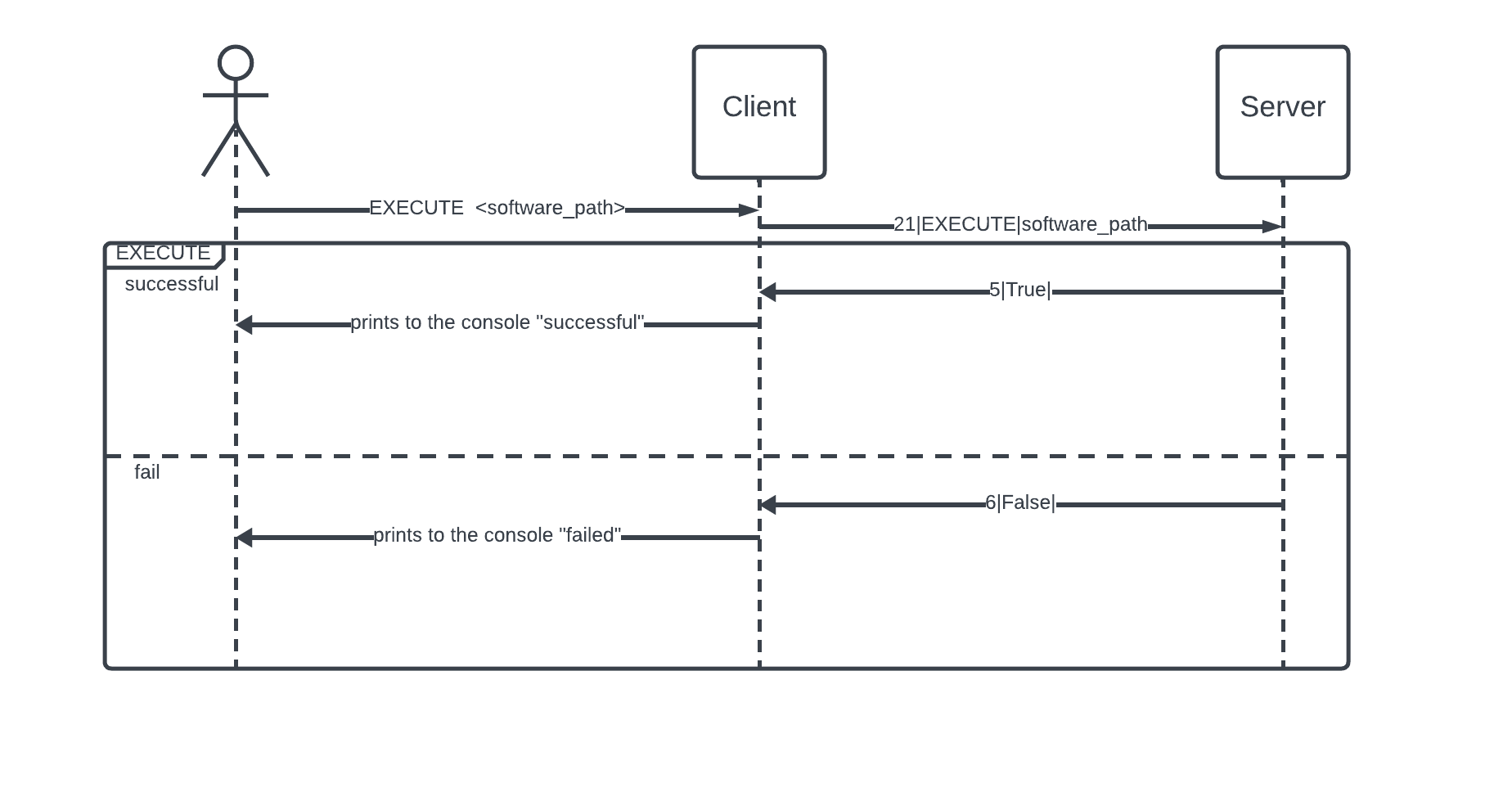
Request: COPY <file to copy path> <file to copy to path>

Response: Copied <name of file to copy> to <name of file copied to>



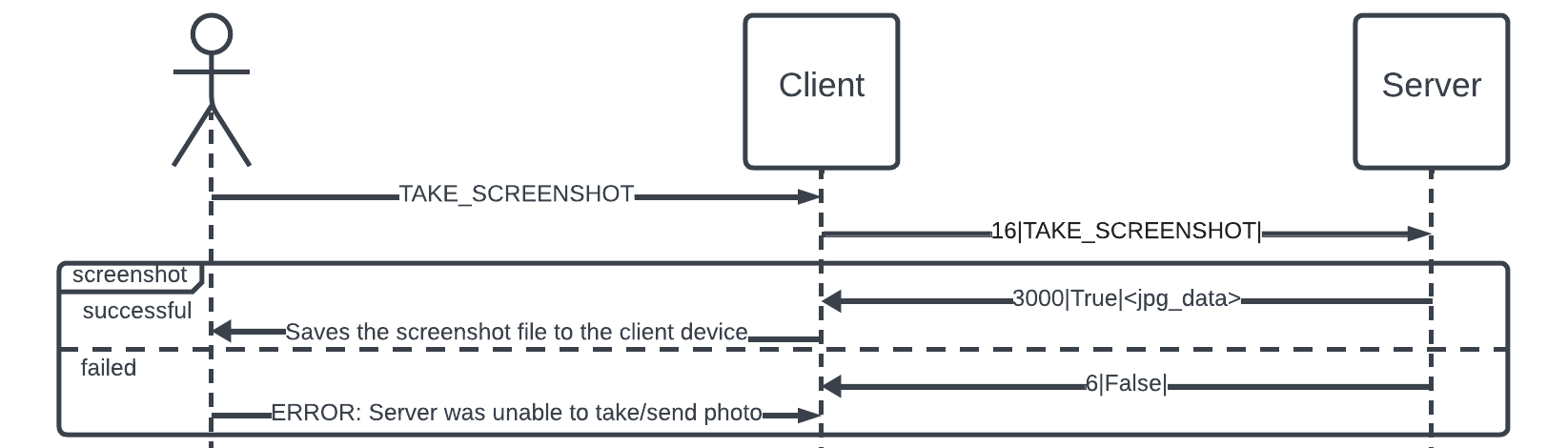
EXECUTE:

Request: EXECUTE <software>.exe

Response: <software>.exe is running

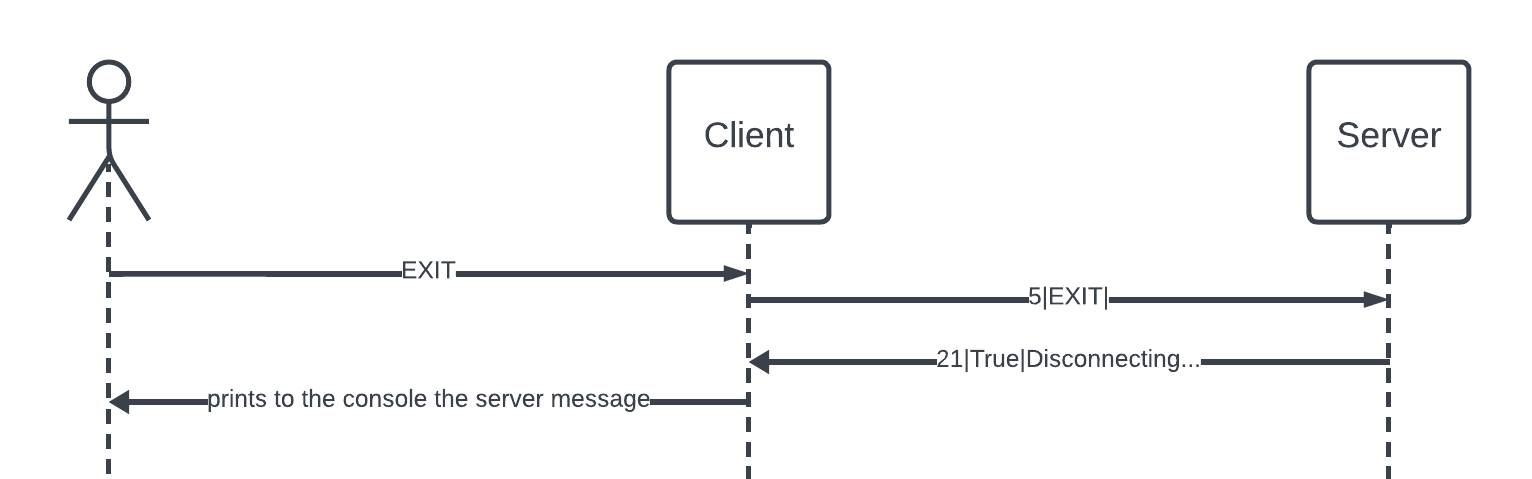
SCREENSHOT:

Request: SCREENSHOT

Response: screenshot located in <screenshot path>

EXIT:

Request: EXIT

Response: Disconnected

**Protocol planning**

Protocol from client to server:

Format: len\_of\_msg|command|args

Explanation:

Len\_of\_msg:

the length of the entire protocol formatted message so the server will know what to expect. Not including the length itself and separator.

In raw data.

Command:

The command from the client

The command cannot contain the “|” character.

Args - arguments:

The arguments from the command if there are any.

Separated with a “#”.

Example:

1. 34|COPY|C:\Cyber\1.txt#C:\Cyber\2.txt
2. 16|TAKE\_SCREENSHOT|

Protocol server to client:

Format: len\_of\_msg|was\_successful|msg

Explanation:

Len\_of\_msg:

the length of the entire protocol formatted message so the client will know what to expect. Not including the length itself and separator.

In raw data.

was\_successful:

tells if the command execution was successful.

This parameter will be typed as a Boolean.

msg:

the server return message – error/return message.

Transmitted in raw data.

Example: 25|True|notepad.exe executed