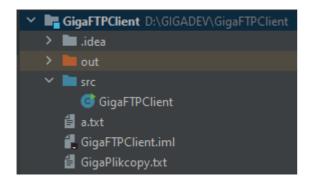
GigaFtp - Example Java FTP like server

Requirements

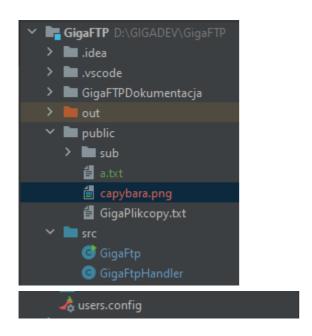
• Java: 8

Project files

Client



Server



Available commands

- USER
- PASS
- PORT
- QUIT
- RMD
- MKD
- DELE
- RETR
- STOR with ABOR
- CDUP
- CWD
- PWD
- LIST
- RMD

Default FTP user and password

User: user

Password: 1234

All users with passwords are loaded from user.config file

Example usage: Server

Run GigaFTP

All files and subfolders in "public" folder of the server will be hosted



Example usage: Client

Connecting

Run GigaFTPClient and connect to server:

```
Welcome to GigaFTPClient use OPEN command to open connection to GigaFTP server ftp> OPEN
FTPClient: OPEN command ftp> LOCALHOST
Welcome to GigaFTP
```

Perform authorization steps:

Type USER and wait for response, Then type username "user":

```
ftp> USER
214 Command USER:
ftp> user
331 User name okay, need password.
```

Type PASS and wait for response, Then type password "1234":

```
ftp> PASS
214 Command PASS:
ftp> 1234
230 User logged in, proceed.
```

Type PORT and wait for response, Then set Active Mode for port "3020":

```
ftp> PORT
214 Command PORT:
ftp> 3020
200 PORT command successful.
```

FTP Commands example

Now you can retrieve files correctly, you can use supported commands for example:

PWD:

```
ftp> PWD
257 "./public" is current directory.
```

CWD:

```
ftp> OWD
214 Command CWD:
ftp> sub
250 Directory successfully changed.

ftp> PWD
257 "./public/sub" is current directory.

ftp>
```

LIST:

```
ftp> LIST
150 Here comes the directory listing.

a.txt
capybara.png
GigaPlikcopy.txt
sub
226 Directory send OK.
```

RETR:

```
ftp> RETR

214 Command RETR:

ftp> capybara.png

150 Opening BINARY mode data connection for capybara.png

125 Data connection already open; transfer starting.

Saving file to capybara.png

226 Transfer complete.
```

STOR:

```
ftp> STOR
214 Command STOR:
ftp> test.txt

test.txt
150 Opening BINARY mode data connection for file upload
125 Data connection already open; transfer starting.
test.txt
226 Transfer complete.
```

if file does not exists in client directory. Client sends ABOR command

```
ftp> STOR
214 Command STOR:
ftp> DSAE
FTPClient: file doesnt exist
226 ABOR command successful.
```

QUIT:

```
ftp> QUIT
221 Goodbye.

ftp>
Connection has been not estabilished using port or server is not available anymore
Welcome to GigaFTPClient use OPEN command to open connection to GigaFTP server
```

FTP test: FTPServer outside Localhost:

```
"C:\Program Files\Java\jdk-17.0.1\bin\java.exe" "-javaagent:C:\Program Files\-PS D:\GIGADEV\GigaFTP\GigaFTPClient> ipconfig
Welcome to GigaFTPClient use OPEN command to open connection to GigaFTP servel
Windows IP Configuration
                                                                        Ethernet adapter Ethernet:
 Welcome to GigaFTP
                                                                                                                       192.168.100.1
                                                                         PS D:\GIGADEV\GigaFTP\GigaFTPClient> ipconfig
                                                                        Windows IP Configuration
226 Directory send OK.
214 Command RETR:
150 Opening BINARY mode data connection for cappibarra.jpg
125 Data connection already open; transfer starting.
                                                                                                                          192.168.100.1
ftp>
                                                                Connection-specific DNS Suffix .:
214 Command RETR:
                                                                Link-local IPv6 Address . . . . : fe80::7911:8160:ee6e:8f39%4
                                                                IPv4 Address. . . . . . . . . : 192.168.56.1
150 Opening BINARY mode data connection for te.jpg
                                                            PS D:\GIGADEV\GigaFTP\GigaFTPClient>
```

Success: Image file is not corrupted:

