Root directory includes Makefile, source code and executables under ./bin/.

Before running the program, install the uuid package with: sudo apt-get install uuid-dev

Running server and client

Running ./bin/server is required before connecting with ./bin/client.

Arguments for either program are optional, and both are written to connect to another by default.

Code explanation

Client Lines 5-162: Socket handling as defined in provided code snippet.

Client Lines 164-257: Handles user input and creates request-strings which are then sent to the server on line 99.

Server Lines 9-149: Socket handling as defined in provided code snippet.

Server Lines 153-259: Parses requested command and initiates behavior for the command.

Server Lines 263-473: Server behavior for different commands.

Server Lines 477-518: Signal handler as defined in provided code snippet.

Server Lines 522-597: Helper functions to send response and find file in user directory.

Sending requests

LOGIN: Simple, non-secure login function for the second version of the twmailer is already implemented. This request simply sets the username that is used in other commands on the server, password does nothing. Other commands cannot be used without calling this request at least once.

SEND: Sends an email, sender is the username from LOGIN. Email sender, subject and message are saved in plaintext in receiver user directory under ./Emails/<username>.

LIST: Server responds with number of emails and subjects of emails from the user's directory.

READ: Server responds with sender, subject and message of requested email. READ number means the nth email in user directory.

DEL: Server deletes email from user's directory. DEL number means the nth email in user directory.

QUIT: Closes and disconnects the client.