

SMTP Mail Client

Created By: Myles Hann & Christopher
Healey

What It Does

- Sends emails to any recipient, which can consist of plain text or a JPEG image attachment.
- Has GUI which displays input fields including To, From (email and password), CC, Subject, Message, and an attachment button which opens a file chooser.
- Simple and easy to use.

How It Works

- It uses the Simple Mail Transfer Protocol (SMTP), which is an internet standard for electronic emails.
- Opens a TCP connection on port 587 to create a socket connection to the gmail server.
- Using the client sockets, it sends standard command sequences to the server socket to communicate with the server, and receive a response. The details on these commands are found in our report and in the RFC for SMTP.

How It Works Continued...

- MIME (Multipurpose Internet Extensions) is an extension of the original email protocol to allow our mail client to send attachments along side plain text messages.
- With research of the RFC, we successfully implemented sending a JPEG attachment in our project.

Problems We Faced

- Finding the correct port for gmail authentication. (587)
- Not using STARTTLS command for authentication.
- Learning how the MIME syntax and how to use it.
- Emailing a CC to other recipients.

The Demo