Project Proposal: SMTP Mail Client

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Our task in this project will be to develop a simple mail client, that will be able to send an email to any recipient. We will implement this using the Python programming language. This mail client will use a SMTP protocol, and will also have an active GUI display, instead of accessing our implementation through the terminal.

Using socket programming, we will create a TCP connection to a mail server, such as google or hotmail, and send a message to a chosen recipient. We will perform tests using different types of mail servers.

We will implement the following SMTP commands using RFC standards:

- HELO
- MAIL FROM
- RCPT TO
- DATA
- QUIT

As of now we plan to build our client just to send plain text, for the purpose of learning socket programming. Therefore we will have the ability to send plain text, the end of the message will be checked using "." identifier.

We are aware of multiple issues with this basic plan, such as only being able to send text, no security, throughput, and other various issues. However due to time constraints we may not be able to implement everything. Therefore, we will attempt to allow the client to send additional information, such as images. We may also have a security layer.