

PROJECT PROPOSAL

COMPUTER NETWORKS

Title:

IMPLEMENTATION OF SMTP SERVER

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Project Description:

The Simple Mail Transfer Protocol (SMTP) handles sending and routing email between mail servers.

We will demonstrate implementation using a Python module used for sending mail. It will also demonstrate how to send different email types like simple text emails, emails with attachments.

In Python, the smtplib module defines an SMTP client session object that used to send mail to any Internet machine with an SMTP.

Functional Features:

- ❖ Create And Send Simple Mail
 - ✓ Create an SMTP object for connection to the server.
 - ✓ Log in to your account.
 - ✓ Define your message headers and login credentials.
 - ✓ Create a MIME Multipart message object and attach the relevant headers to it, i.e. from, to, and Subject.
 - ✓ Attach the message to the MIME Multipart object.
 - ✓ Finally, send the message.
- ❖ Create And Send Mail With Attachment
 - ✓ Create an SMTP object for connection to the server.
 - ✓ Log in to your account.
 - ✓ Define your message headers and login credentials.
 - ✓ Create a MIME Multipart message object and attach the relevant headers to it, i.e. from, to, and Subject.
 - ✓ Read and attach the image to the message MIME Multipart object.
 - ✓ Finally, send the message.

Plan of Work:

- ✓ Implementation of SMTP server
- ✓ User login
- ✓ Sending mail setup
- ✓ Receiving mail using Imap
- ✓ Creating Gui

References:

- <https://code.tutsplus.com/tutorials/sending-emails-in-python-with-smtp--cms-29975>
- <https://realpython.com/python-send-email/>
- <https://docs.python.org/3/library/smtpd.html>
- <https://stackoverflow.com/questions/2690965/a-simple-smtp-server-in-python>