

15CSE386 Computer Networks Lab

Online JPEG File Compression Tool

Project Abstract

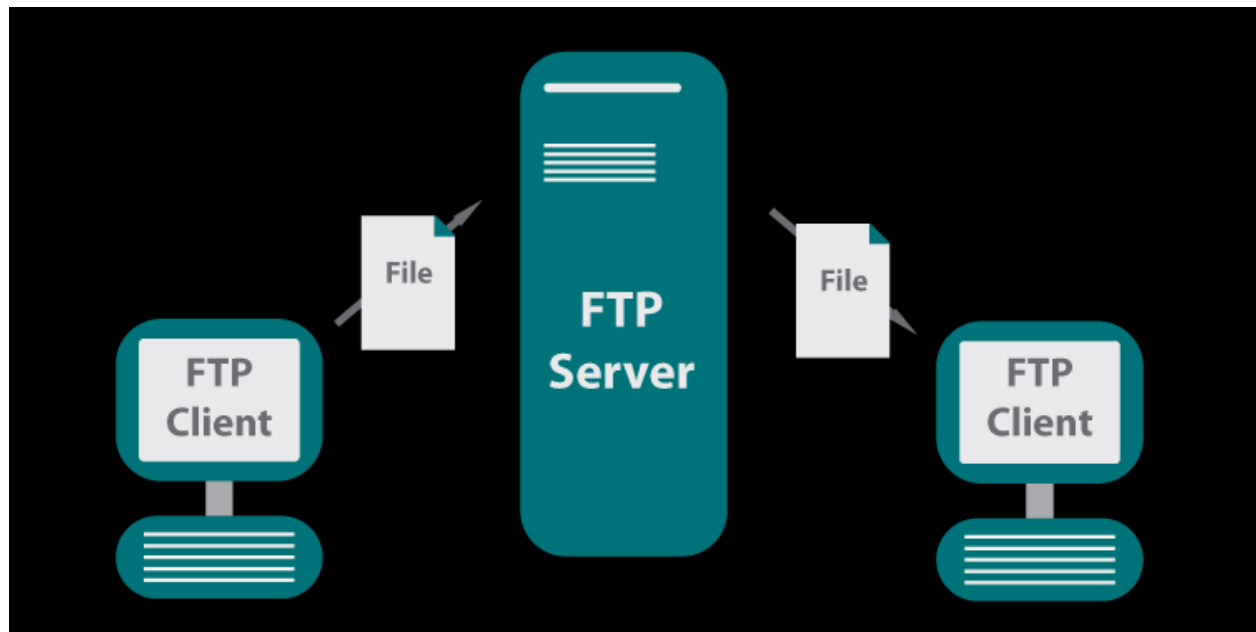
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Introduction

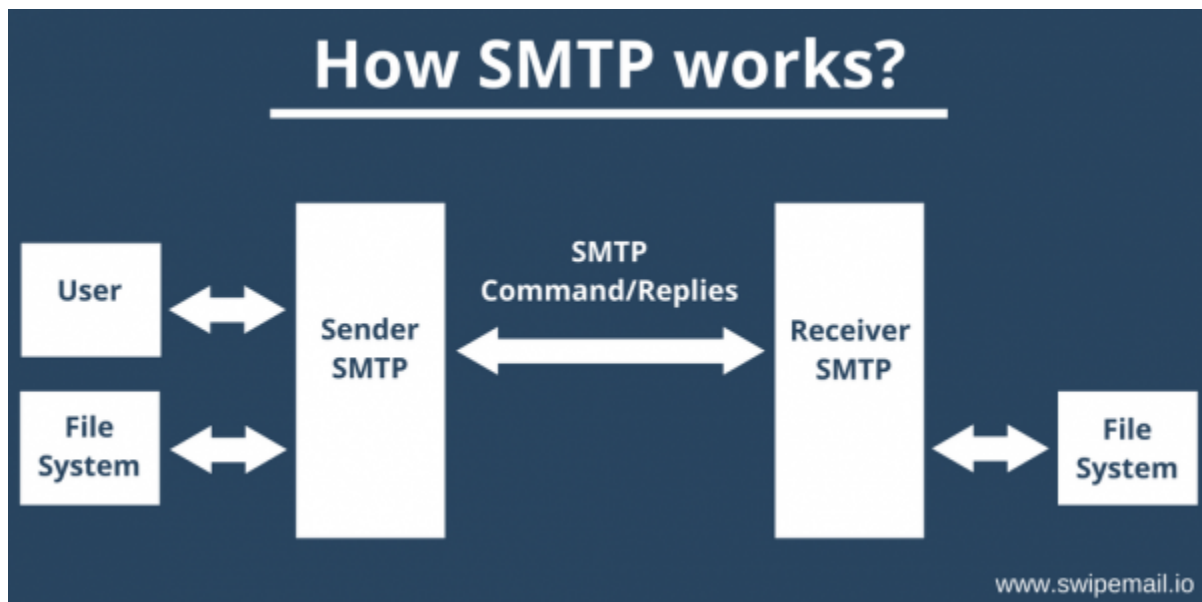
This project is aimed at users who want to compress their JPEG files (file size < 50Mb) to a specific size. After compression, we allow the users to either download the file from our server or get the files sent to their email address. This is a user-friendly web application made with Python.

We use FTP (File Transfer Protocol) for upload and download of the file and SMTP (Simple Mail Transfer Protocol) for sending the file via email.

FTP is a standard communication protocol used for the transfer of computer files from a server to a client on a computer network. FTP is built on a client-server model architecture using separate control and data connections between the client and the server.



SMTP is a set of communication guidelines that allow software to transmit an electronic mail over the internet is called Simple Mail Transfer Protocol. It is a program used for sending messages to other computer users based on e-mail addresses.



Modules for the project

1. **File upload:** The user can upload a .jpeg file and it will be sent to the server for compression.
2. **File Download:** Allows the user to download the file after compression.
3. **Server:** Compresses the files it receives and sends it back to the client. Optionally if the uploader chooses to send the file to a specific email address, the server will ask for the email address first.

Software

Language stack: Python, HTML, CSS

Frameworks: Flask (backend), Django

Development Tools: Atom, VS Code, Cloud Hosting with Heroku