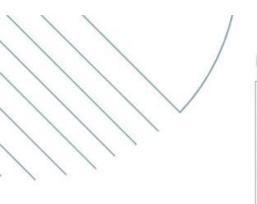


# PROJECT INTRODUCTION

In the ever-evolving landscape of digital collaboration, File sharing app emerges as a versatile and user-friendly file-sharing application built on the robust foundation of Python. File sharing app is designed to streamline the process of sharing files securely and efficiently, catering to the diverse needs of users in various collaborative environments



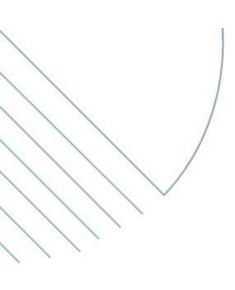
```
A server.py - C:/Users/Admin/AppData/Local/Programs/Python/Python312/server.py (3.12.1)
File Edit Format Run Options Window Help
from flask import Flask, request, send file
import os
app = Flask(__name__)
UPLOAD FOLDER = 'uploads'
app.config['UFLOAD_FOLDER'] = UPLOAD_FOLDER
@app.route('/upload', methods=['POST'])
def upload_file():
    if 'file' not in request.files:
return 'No file part'
    file = request.files['file']
    if file.filename == ":
        return 'No selected file'
    file.save(os.path.join(app.config['UPLOAD_FOLDER'], file.filename))
    return 'File uploaded successfully'
@app.route('/download/<filename>', methods=['GET'])
def download file(filename):
    roturn send file(os.path.join(app.config['UPLOAD FOLDER'], filename), as attachment="row")
if __name == '__main__':
    if not os.path.exists(UPLOAD_FOLDER):
        os.makedirs(UPLOAD FOLDER)
    app.run(debug=True, threaded=True)
```

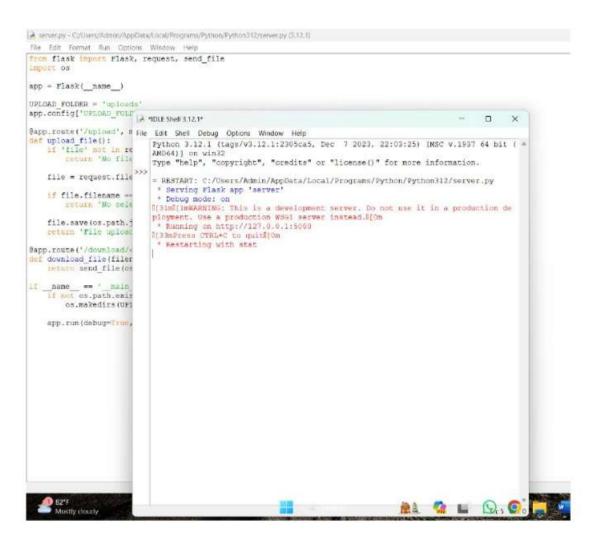




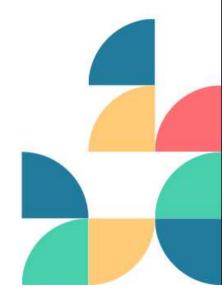
it is the server code







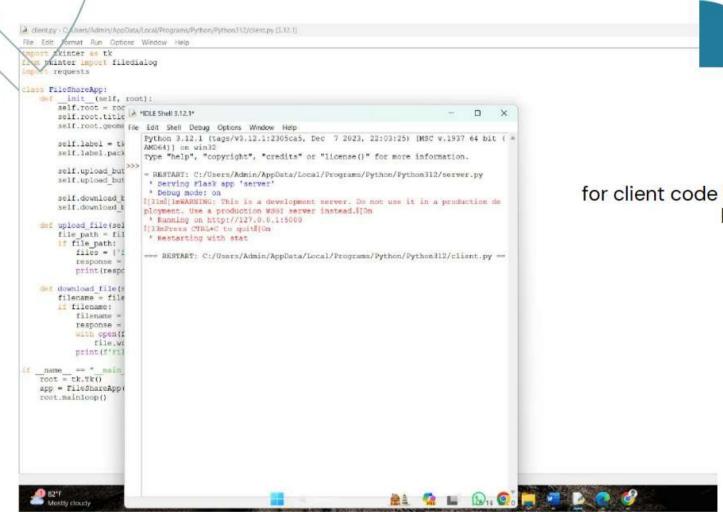
after running a server code we will get output like this



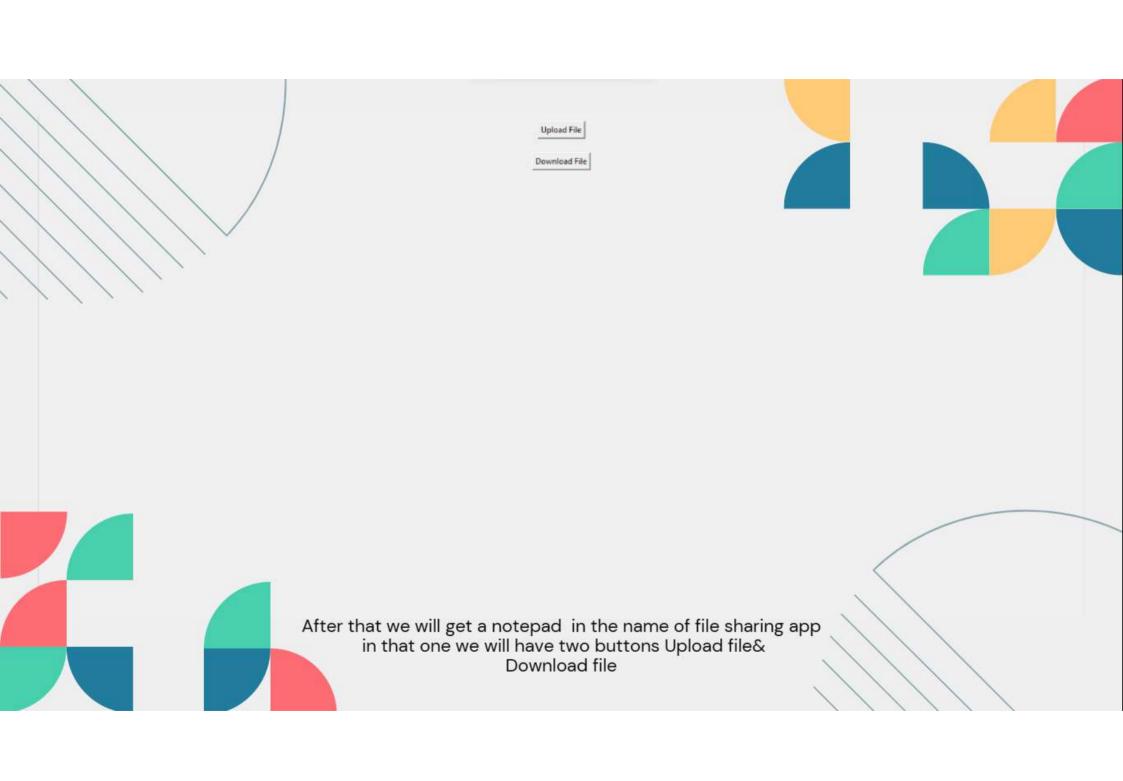
```
A client.py - C;/Users/Admin/AppData/Local/Programs/Python/Python312/ciient.py (3.12.1)
File Edit Format Run Options Window Help
import thinter as th
 from tkinter import filedialog
import requests
 class FileShareApp:
    def __init__(self, root):
    self.root = root
         self.root.title("File Sharing App")
         self.root.geometry("305x150")
         self.label = tk.Label(root, text="Select a file to upload:")
         self.label.pack(pady=10)
         self.upload_button = tk.Button(root, text="Upload File", command=self.upload_file) self.upload_button.pack(pady=10)
         self.download button = tk.Button(root, text="Download File", command=self.download file)
         self.download button.pack(pady=10)
    def upload_file(self):
    file path = filedialog.askopenfilename()
         if file path:
             files = ('file': open(file_path, 'rb'))
             response = requests.post('http://localhost:5000/upload', files=files)
             print(response.text)
    def download file(self):
         filename = filedialog.asksaveasfilename(defaultextension=".txt", filetypes=[("All Files", "*.*")])
         if filename:
             filename = filename.split("/")[-1] # Extract only the filename
response = requests.get(f*http://localhost:5000/download/[filename]*)
             with open(filename, 'wb') as file:
                  file.write(response.content)
             print(f'File downloaded as (filename)')
if name -- " main ":
    root = tk.Tk()
    app = FileShareApp(root)
    root.mainloop()
```

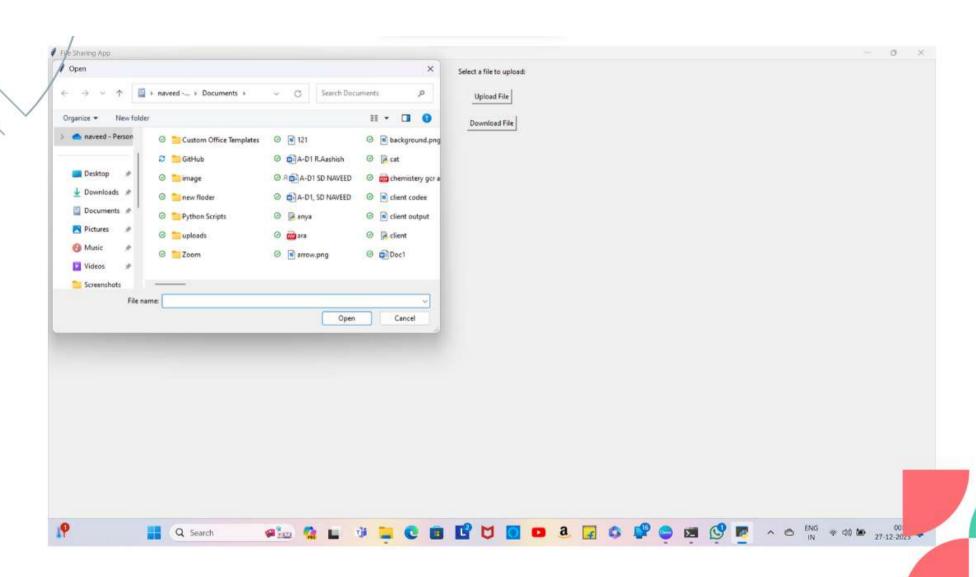
This is the client code





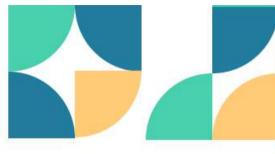
for client code we will get the output like this





After selecting upload file we can see the all files and we can upload them.





# 1. \*\*Flask (flask):\*\*

- \*Explanation:\* Flask is a web framework for Python. In this code, it is used to create a simple web server that handles file uploads and downloads.

# 2. \*\*request from Flask:\*\*

- \*Explanation:\* The request object from Flask is used to access information about the incoming HTTP request, such as form data in the case of file uploads.

# 3. \*\*send\_file from Flask:\*\*

- \*Explanation:\* The send\_file function is used to send a file in the HTTP response. In this code, it's used to send the uploaded file as a downloadable attachment.

## 4. \*\*os:\*\*

- \*Explanation:\* The os module provides a way to interact with the operating system. It is used here to manage the upload folder and create directories if they don't exist.

# modules used for Client code

# 1. \*\*tkinter (tk):\*\*

- \*Explanation:\* Tkinter is the standard GUI (Graphical User Interface) toolkit that comes with Python. It is used to create the graphical interface for the file-sharing client.

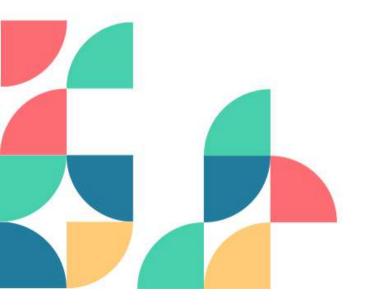
# 2. \*\*filedialog from Tkinter:\*\*

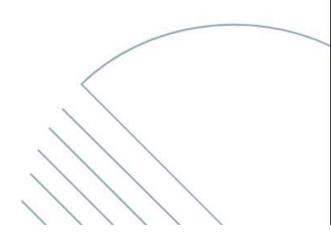
- \*Explanation:\* The filedialog module provides dialogs for opening and saving files. In this code, it is used to prompt the user to select files for upload and choose a location for saving downloaded files.

# 3. \*\*requests:\*\*

- \*Explanation:\* The requests module allows sending HTTP requests. In this code, it is used to send POST requests for uploading files and GET requests for downloading files from the Flask server.

These modules play key roles in the functionality of the file-sharing application, with Flask handling the server-side logic and Tkinter providing the client-side GUI. The other modules support these primary functionalities, enabling file upload, download, and interaction between the server and client.





# THANK YOU