

# TASK AUTOMATION - File Organizer Tool

## Project Objective

To build a lightweight, interactive tool that helps users:

- Automatically categorize files based on type/extension.
- Clean up messy directories by sorting files into organized subfolders.
- Delete empty folders after reorganization to reduce clutter.
- Provide a web interface for non-tech users to use the tool effortlessly.

## How It Works

This project has two core components:

### 1. Backend Logic (logic.py)

- Categorizes files into groups like Images, Documents, Videos, etc.
- Moves them into appropriate folders.
- Deletes empty directories after sorting.

### 2. Frontend UI (app.py)

- Built using Streamlit, a Python framework for web apps.
- Lets users upload files, enter target directory, and trigger the organizer.
- Shows logs of operations performed (moved, deleted, skipped).

## Technologies & Libraries Used

- Python: Core programming language
- os, shutil: File handling, path operations, and file movement
- Streamlit: Frontend web interface for ease of use

## Setting Up the Environment

### 1. Install Python:

Download from: <https://www.python.org/downloads/>

### 2. Create a Virtual Environment (optional):

# TASK AUTOMATION - File Organizer Tool

```
python -m venv env
```

Activate:

- Windows: env\Scripts\activate
- macOS/Linux: source env/bin/activate

3. Install Libraries:

```
pip install streamlit
```

4. Run the Application:

```
streamlit run app.py
```

## Features

- Directory Path Input
- Multi-file Upload Support
- One-click Auto Organize
- Log Viewer for Actions
- Deletes Empty Folders
- Stylish Streamlit UI

## File Categories Used

- Images: .jpg, .jpeg, .png, .gif, .bmp, .heic
- Documents: .pdf, .doc, .docx, .txt, .xls, .xlsx, .ppt, .pptx
- Videos: .mp4, .mkv, .avi, .mov, .hevc
- Audio: .mp3, .wav, .aac
- Archives: .zip, .rar, .7z, .tar, .gz
- Executables: .exe, .msi
- Scripts: .py, .js, .sh, .html, .css
- Others: Anything uncategorized

# **TASK AUTOMATION - File Organizer Tool**

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## **External Links**

[Download Python](#)

[Streamlit Documentation](#)

[GitHub Repository \(Placeholder\)](#)