FILE ORGANIZER USING PYTHON

OVERVIEW:

The File Organizer is a Python script designed to help users organize files in a specified directory by categorizing them into folders based on their file types. The script prompts the user to enter a directory path, creates specific folders for images, documents, and videos (and additional categories can be added), and then moves the corresponding files into their appropriate folders.

PURPOSE:

The purpose of this project is to streamline the process of organizing files, reducing clutter in a specified directory, and making it easier for users to locate and manage their files.

PACKAGES USED:

The script utilizes two standard Python libraries: OS and Shutil.

- **OS :** This library provides a way to interact with the operating system, allowing the script to check for the existence of directories and files, create directories, and manipulate file paths.
- **Shutil :** The Shutil library is used for file operations, specifically for moving files from one location to another. In this script, it is employed to move files to their respective category folders.

PROCEDURE:

1. **User Input :** The script begins by welcoming the user to the File Organizer and prompting them to enter the directory path they want to organize.

2. **Directory Validation :** It checks if the entered directory exists. If not, the script informs the user and exits. Otherwise, it proceeds to the next steps.

3. **Folder Creation :** The script creates predefined folders (Images, Documents, Videos) in the specified directory using the create folder function.

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4. **File Organization :** It scans through the files in the specified directory using os.listdir() For each file, it identifies the file extension and compares it with predefined file types. If a match is found, the file is moved to the corresponding category folder using shutil.move()

5. **Display Information :** During the process, the script prints messages indicating the files being moved and the destination folder.

6. **Completion Message :** organizing all the files, the script prints a message indicating the successful completion of the file organization process.