GKB Internship Project Report

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Task Chosen: Task B – Python-Based File Organizer Tool

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# Problem Statement:

Managing downloaded files can quickly become messy and disorganized. Users often save a variety of file types (like images, videos, documents, PDFs) in a single folder without sorting them. This project solves the problem by creating a Python script that automatically organizes files into categorized subfolders based on their file extensions.

# Tools and Technologies Used:

- Python 3  
- Built-in Libraries:  
 - os for file/folder access  
 - shutil for moving files  
 - pathlib for path operations

# How the Solution Works:

1. The user provides the path to the folder they want to organize.  
2. The program scans each file inside that folder.  
3. It checks each file's extension to determine its type (e.g., .jpg, .pdf, .txt).  
4. Based on the extension, the program creates subfolders like Images, Videos, Documents, and PDFs.  
5. Files are moved into the corresponding folders.  
6. Files with unknown or uncategorized extensions are moved to a folder named Others.

# 📁Sample Input Folder:

TestFolder/  
├── selfie.jpg  
├── resume.pdf  
├── story.txt  
├── song.mp4

# 📁 Organized Output:

TestFolder/  
├── Images/selfie.jpg  
├── PDFs/resume.pdf  
├── Documents/story.txt  
├── Videos/song.mp4

# Features:

- Command-line interface  
- Categorizes files into appropriate folders  
- Handles common file types (images, videos, documents, PDFs)  
- Automatically creates folders if they do not exist  
- Works offline on Android using Pydroid 3

# Learning Outcome:

- Learned how to automate a real-world problem using Python  
- Gained hands-on experience with file system operations  
- Understood how to map file types using extensions  
- Improved skills in writing clean and functional Python scripts