Introduction

This Python script automates the process of organizing photos based on session details extracted from PDF files. It reads appointment data from PDFs, identifies matching photos using their EXIF metadata, and then sorts these photos into folders named after the individuals or sessions. This is particularly useful for situations where you need to categorize photos by specific events or sessions, such as medical appointments, interviews, or any event with time-specific data.

Setup Instructions (Windows)

1. Install Python:
- Ensure you have Python installed on your Windows machine. If not, download and install it from the [official Python website](#).
- During installation, make sure to check the box that says "Add Python to PATH."

2. Install Required Python Modules:
- Open Command Prompt and run the following commands to install the necessary Python libraries:

pip install pdfplumber pandas pillow argparse

- This will install:
    - pdfplumber: For reading and extracting text from PDF files.
    - pandas: For handling data in tabular form.
    - Pillow: For working with image files and their metadata.
    - argparse: For handling command-line arguments (this is included with Python by default).

3. Setting Up the Directories:
- By default, the script assumes the following directory structure in the same directory as the script:
    - schedule/ – Folder containing the PDF files with session details.
    - photos/ – Folder containing the unsorted photos.
    - output/ – Folder where the sorted photos will be saved.
- To customize these paths, see the "Custom Path Modification" section below.

4. How the Source PDF Should Look:
- The script expects each PDF to have a specific format:
    - **First Line:** Contains the session date in the format (Day Month DD.MM.YYYY).
    - **Table:** Should include columns with headers like "Kell", "Pikkus", "Patsient", and "Isikukood".
    - **Data Rows:** Contain the time, duration, person's name, and personal code.

Example of Expected PDF Content:

Arsti Nimi (Tuesday 01.08.2023)
Kell Pikkus Patsient Isikukood
10:00 30 min John Doe 123456-7890
11:00 45 min Jane Smith 098765-4321

5. Running the Script:

- Save the script as photo_sorter.py.
- Open Command Prompt, navigate to the directory where your script is saved, and run the script:

python photos2folders.py --name-only

- **The --name-only flag is optional** and, if used, will create folders named only after the person's name. Without it, folders will include both the name and personal code.

Custom Path Modification

To use custom directories for your PDFs, photos, and output:

1. **Open the Script in a Text Editor:**
   - Use any text editor like Notepad or VS Code to edit the script.
2. **Modify the Paths:**
   - Find the section in the script marked as "THE ONLY PLACE YOU CAN DO CHANGES starts here!!!".
   - If needed peplace the default paths with your desired directory paths. For example:

   pdf_directory = 'C:\\Users\\username\\MyDocuments\\MyPDFs'
   photo_directory = 'C:\\Users\\username\\MyPictures\\UnsortedPhotos'
   output_directory = 'C:\\Users\\username\\MyPictures\\SortedPhotos'

3. **Save the Script:**
- After editing, save the script and run it as described above.

Final Notes

Make sure your photos have accurate EXIF metadata for the script to match them with the sessions correctly. If your photos don't have this data, or if the format of your PDFs is different, you may need to adjust the script's logic accordingly.