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In [ ]:
         pip install face recognition
In [ ]:
         import face recognition
In [ ]:
         import os
         from PIL import Image
         def is image empty(image path):
                 image = face recognition.load image file(image path)
                 face_locations = face_recognition.face_locations(image)
                 return len(face locations) == 0
             except Image.UnidentifiedImageError:
                 print(f"Error loading image: {image path}")
                 return True
         def extract_faces(image_path, output_folder):
                 image = face recognition.load image file(image path)
                 face_locations = face_recognition.face_locations(image)
                 for i, (top, right, bottom, left) in enumerate(face locations):
                     # Extract the face from the image
                     face_image = image[top:bottom, left:right]
                     pil_image = Image.fromarray(face_image)
                     # Generate a unique filename for the extracted face image
                     original_filename = os.path.splitext(os.path.basename(image_path))[0]
                     output filename = f"{original filename} face {i}.jpg"
                     # Save the extracted face as a separate image in the appropriate subfolder
                     subfolder = os.path.dirname(os.path.relpath(image_path, folder_path))
                     subfolder_output_path = os.path.join(output_folder, subfolder)
                     os.makedirs(subfolder_output_path, exist_ok=True)
                     output_path = os.path.join(subfolder_output_path, output_filename)
                     pil image.save(output path)
             except Image.UnidentifiedImageError:
                 print(f"Error extracting faces from image: {image_path}")
         def process_folder(folder_path, output_folder_path):
    for root, dirs, files in os.walk(folder_path):
                 for file in files:
                     if file.endswith(".jpg") or file.endswith(".png"):
                          image_path = os.path.join(root, file)
                          if is_image_empty(image_path):
                              print(f"Skipping empty or unsupported image: {image_path}")
                              continue
                          print(f"Extracting faces from: {image_path}")
                          extract faces(image path, output folder path)
         # Specify the input folder path where your pictures are stored
         folder_path = "/Users/kei/Desktop/Leaders File"
         # Specify the output folder path on your desktop
         output folder path = os.path.expanduser("/Users/kei/Desktop/Extracted2")
         # Create the output folder if it doesn't exist
         os.makedirs(output_folder_path, exist_ok=True)
         print("Processing folder...")
         process folder(folder path, output folder path)
         print("Extraction completed!")
```