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import os
import io
import pandas as pd
from google.cloud import vision
from pdf2image import convert_from_path
from PIL import Image
import PyPDF2

# Set up Google Cloud Vision client
os.environ["GOOGLE_APPLICATION_CREDENTIALS"] = "path/to/your/credentials.json"
client = vision.ImageAnnotatorClient()

def extract_text_from_image(image_path):
    with io.open(image_path, 'rb') as image_file:
        content = image_file.read()
    image = vision.Image(content=content)
    response = client.text_detection(image=image)
    texts = response.text_annotations
    if texts:
        return texts[0].description
    return ""

def extract_text_from_pdf(pdf_path):
    pages = convert_from_path(pdf_path, 300)
    text = ""
    for page_number, page in enumerate(pages):
        temp_image_path = f"page_{page_number}.jpg"
        page.save(temp_image_path, 'JPEG')
        text += extract_text_from_image(temp_image_path)
        os.remove(temp_image_path)
    return text

def process_single_document(file_path):
    if file_path.lower().endswith('.pdf'):
        return extract_text_from_pdf(file_path)
    elif file_path.lower().endswith(('.jpg', '.jpeg', '.png')):
        return extract_text_from_image(file_path)
    return ""

def process_multiple_documents(directory_path):
    data = []
    for file_name in os.listdir(directory_path):
        file_path = os.path.join(directory_path, file_name)
        if file_path.lower().endswith(('.pdf', '.jpg', '.jpeg', '.png')):
            text = process_single_document(file_path)
            data.append({'file_name': file_name, 'extracted_text': text})
    return pd.DataFrame(data)

# Example usage
if __name__ == "__main__":
    directory_path = "path/to/your/documents"
    extracted_data_df = process_multiple_documents(directory_path)
    extracted_data_df.to_csv("extracted_data.csv", index=False)
```