import boto3

import csv

# Initialize the boto3 client

s3\_client = boto3.client('s3')

ses\_client = boto3.client('ses')

def lambda\_handler(event, context):

    # Specify the S3 bucket name

    bucket\_name = 'email-marketing-proj'

    try:

        # Retrieve the CSV file from S3

        csv\_file = s3\_client.get\_object(Bucket=bucket\_name, Key='contacts.csv')

        lines = csv\_file['Body'].read().decode('utf-8').splitlines()

        # Retrieve the HTML email template from S3

        email\_template = s3\_client.get\_object(Bucket=bucket\_name, Key='email\_template.html')

        email\_html = email\_template['Body'].read().decode('utf-8')

        # Parse the CSV file

        contacts = csv.DictReader(lines)

        for contact in contacts:

            # Replace placeholders in the email template with contact information

            personalized\_email = email\_html.replace('{{FirstName}}', contact['FirstName'])

            # Send the email using SES

            response = ses\_client.send\_email(

                Source='snehaji2020@gmail.com',

                Destination={'ToAddresses': [contact['Email']]},

                Message={

                    'Subject': {'Data': 'Your Weekly Tiny Tales Mail!', 'Charset': 'UTF-8'},

                    'Body': {'Html': {'Data': personalized\_email, 'Charset': 'UTF-8'}}

                }

            )

            print(f"Email sent to {contact['Email']}: Response {response}")

    except Exception as e:

        print(f"An error occurred: {e}")