Lambda Function Python Code

```
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 = 'ttt-email-marketing' # Replace with your bucket name


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='you@yourdomainname.com',  # Replace with your verified "From" address

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}")
```

Lambda Function Test Event

```
{

"comment": "Generic test event for scheduled Lambda execution. The function does not use this event data.",

"test": true

}
```