LAMBDA TEST CODE

Generate output filename

s3 client.put object(

Key=output key,

Save the audio file to the output S3 bucket

Bucket=OUTPUT BUCKET,

```
"text": "Hello! This is a test of Amazon Polly text-to-speech service."
PYTHON CODE FOR LAMBDA
import boto3
from datetime import datetime
# Initialize clients
s3 client = boto3.client("s3")
polly client = boto3.client("polly")
# Set your output bucket name here (where audio files will be saved)
OUTPUT BUCKET = "-----" # Enter your output bucket name
def lambda handler(event, context):
  try:
    # Get the first record from the S3 event
    record = event['Records'][0]
    bucket name = record['s3']['bucket']['name']
                                                  # Input bucket
    file_key = record['s3']['object']['key']
                                              # Input file key
    # Read the uploaded text file from S3
    response = s3 client.get object(Bucket=bucket name, Key=file key)
    text = response['Body'].read().decode('utf-8')
    # Convert text to speech using Polly
    audio = polly client.synthesize speech(
       Text=text,
       OutputFormat='mp3', #You can change required output format type and voice type
       VoiceId='Joanna'
    )
```

output key = f''speech {file key.split('/')[-1].replace('.txt', '.mp3')}"

```
Body=audio['AudioStream'].read()
    )
    print(f"Audio file saved: {OUTPUT BUCKET}/{output key}")
    return {"status": "success", "file": output key}
  except Exception as e:
    print(f"Error: {str(e)}")
    return {"status": "error", "message": str(e)}
IAM POLICIES
 "Version": "2012-10-17",
 "Statement": [
   "Effect": "Allow",
   "Action": [
    "s3:GetObject"
   "Resource": "arn:aws:s3:::----/*" #Enter your input bucket name
  },
   "Effect": "Allow",
   "Action": [
    "s3:PutObject"
   "Resource": "arn:aws:s3:::----/*" #Enter your output bucket name
   "Effect": "Allow",
   "Action": [
    "polly:SynthesizeSpeech"
   ],
   "Resource": "*"
```