**PETNATION LAMBDA FUNCTIONS CODE**

**petnation\_request\_put**

**lambda\_function.py**

import json

import sys

import logging

import rds\_config

import package.pymysql

# pip install --target ./package pymysql

# rds settings

rds\_host = "petnation.cdwhwe3geatz.us-east-1.rds.amazonaws.com"

username = rds\_config.db\_username

password = rds\_config.db\_password

db\_name = rds\_config.db\_name

def lambda\_handler(event, context):

logger = logging.getLogger()

logger.setLevel(logging.INFO)

try:

conn = package.pymysql.connect(rds\_host, user=username, passwd=password, db=db\_name, connect\_timeout=5)

except package.pymysql.MySQLError as e:

logger.error("ERROR: Unexpected error: Could not connect to MySQL instance.")

logger.error(e)

sys.exit()

logger.info("SUCCESS: Connection to RDS MySQL instance succeeded")

cur=conn.cursor()

body=json.loads(event['body'])

email=body['email']

petname=body['petname']

petbreed=body['petbreed']

city=body['city']

days=body['days']

cur.execute('insert into request values("'+email+'","'+petname+'","'+petbreed+'","'+city+'",'+days+',NULL)')

# cur.execute('insert into request values("nihar@gmail.com","dog","german","dewas",10,NULL)')

# cur.execute('select \* from request')

response=cur.fetchall()

conn.commit()

conn.close()

print(response)

return {

"statusCode": 200,

"headers": {

"Content-Type": "application/json",

"Access-Control-Allow-Origin": "\*",

'Access-Control-Allow-Headers': 'Content-Type',

'Access-Control-Allow-Methods': 'OPTIONS,POST,GET'

},

"body": "insert successfull"

}

**rds\_config.py**

#config file containing credentials for RDS MySQL instance

db\_username = "admin"

db\_password = "12345678"

db\_name = "petnation"

**petnation\_volunteer\_put**

**lambda\_function.py**

import json

import sys

import logging

import rds\_config

import package.pymysql

# pip install --target ./package pymysql

# rds settings

rds\_host = "petnation.cdwhwe3geatz.us-east-1.rds.amazonaws.com"

username = rds\_config.db\_username

password = rds\_config.db\_password

db\_name = rds\_config.db\_name

def lambda\_handler(event, context):

logger = logging.getLogger()

logger.setLevel(logging.INFO)

try:

conn = package.pymysql.connect(rds\_host, user=username, passwd=password, db=db\_name, connect\_timeout=5)

except package.pymysql.MySQLError as e:

logger.error("ERROR: Unexpected error: Could not connect to MySQL instance.")

logger.error(e)

sys.exit()

logger.info("SUCCESS: Connection to RDS MySQL instance succeeded")

cur=conn.cursor()

body=json.loads(event['body'])

email=body['email']

name=body['name']

mobile=body['mobile']

city=body['city']

state=body['state']

print(email+name+mobile+city+state)

cur.execute('insert into volunteer values("'+email+'","'+name+'","'+mobile+'","'+city+'","'+state+'",0)')

# cur.execute('insert into volunteer values("nihar@gmail.com","asha","871322322","dewas","gujarat",0)')

# cur.execute('select \* from volunteer')

response=cur.fetchall()

conn.commit()

conn.close()

print(response)

return {

"statusCode": 200,

"headers": {

"Content-Type": "application/json",

"Access-Control-Allow-Origin": "\*",

'Access-Control-Allow-Headers': 'Content-Type',

'Access-Control-Allow-Methods': 'OPTIONS,POST,GET'

},

"body": "insert successfull"

}

**rds\_config.py**

#config file containing credentials for RDS MySQL instance

db\_username = "admin"

db\_password = "12345678"

db\_name = "petnation"

**petnation\_request\_update**

**lambda\_function.py**

import json

import sys

import logging

import rds\_config

import package.pymysql

# pip install --target ./package pymysql

# rds settings

rds\_host = "petnation.cdwhwe3geatz.us-east-1.rds.amazonaws.com"

username = rds\_config.db\_username

password = rds\_config.db\_password

db\_name = rds\_config.db\_name

def lambda\_handler(event, context):

logger = logging.getLogger()

logger.setLevel(logging.INFO)

try:

conn = package.pymysql.connect(rds\_host, user=username, passwd=password, db=db\_name, connect\_timeout=5)

except package.pymysql.MySQLError as e:

logger.error("ERROR: Unexpected error: Could not connect to MySQL instance.")

logger.error(e)

sys.exit()

logger.info("SUCCESS: Connection to RDS MySQL instance succeeded")

cur=conn.cursor()

email=event['queryStringParameters']['email']

caretaker=event['queryStringParameters']['caretaker']

petname=event['queryStringParameters']['petname']

cur.execute('update request set caretaker="'+caretaker+'" where petowner="'+email+'" and petname="'+petname+'" and caretaker is NULL')

# cur.execute('update request set caretaker="nihar@gmail.com" where petowner="chhavi@gmail.com" and petname="bird" and caretaker is NULL')

conn.commit()

cur.execute('update volunteer set rating=rating+1 where email="'+caretaker+'"')

# cur.execute('update volunteer set rating=rating+1 where email="nihar@gmail.com"')

response=cur.fetchall()

conn.commit()

conn.close()

print(response)

return {

"statusCode": 200,

"headers": {

"Content-Type": "application/json",

"Access-Control-Allow-Origin": "\*",

'Access-Control-Allow-Headers': 'Content-Type',

'Access-Control-Allow-Methods': 'OPTIONS,POST,GET'

},

"body": "updated"

}

**rds\_config.py**

#config file containing credentials for RDS MySQL instance

db\_username = "admin"

db\_password = "12345678"

db\_name = "petnation"

**petnation\_sendmail**

**lambda\_function.py**

#champ is nihar

import json

import sys

import logging

import rds\_config

import package.pymysql

import smtplib

from email.mime.multipart import MIMEMultipart

# pip install --target ./package pymysql

# rds settings

rds\_host = "petnation.cdwhwe3geatz.us-east-1.rds.amazonaws.com"

username = rds\_config.db\_username

password = rds\_config.db\_password

db\_name = rds\_config.db\_name

def lambda\_handler(event, context):

logger = logging.getLogger()

logger.setLevel(logging.INFO)

try:

conn = package.pymysql.connect(rds\_host, user=username, passwd=password, db=db\_name, connect\_timeout=5)

except package.pymysql.MySQLError as e:

logger.error("ERROR: Unexpected error: Could not connect to MySQL instance.")

logger.error(e)

sys.exit()

logger.info("SUCCESS: Connection to RDS MySQL instance succeeded")

cur=conn.cursor()

email=event['queryStringParameters']['email']

petname=event['queryStringParameters']['petname']

petbreed=event['queryStringParameters']['petbreed']

mobile=event['queryStringParameters']['mobile']

days=event['queryStringParameters']['days']

city=event['queryStringParameters']['city']

cur.execute('select email from volunteer where city="'+city+'"')

# email="jayrajchoudhury114@gmail.com"

# petname="doggy"

# petbreed="german"

# mobile="9982872722"

# days="10"

# city="dewas"

# cur.execute('select email from volunteer where city="dewas"')

response=cur.fetchall()

json\_data=[]

for result in response:

json\_data.append(result[0])

print(json\_data)

cur.execute('select \* from volunteer where city="'+city+'"')

# cur.execute('select \* from volunteer where city="dewas"')

row\_headers=[x[0] for x in cur.description]

response1=cur.fetchall()

volunteer\_data=[]

for result in response1:

volunteer\_data.append(dict(zip(row\_headers,result)))

conn.commit()

conn.close()

sent\_from = "noreply.petnation@gmail.com"

to = json\_data

print(to)

subject = 'Looking for volunteer.'

body = """Hi Dear,\nWe are from petnation!\nOur friend need a caretaker for his pet.\nPlease help if you can. Details are listed below--

Pet Owner: %s

Pet Name: %s

Pet Breed: %s

Owner\'s Mobile No.: %s

City: %s

Days: %s

Have a nice day.

"""%(email,petname,petbreed,mobile,city,days)

email\_text = """\

From: %s

To: %s

Subject: %s

%s

""" % (sent\_from, ", ".join(to), subject, body)

try:

smtp\_server = smtplib.SMTP\_SSL('smtp.gmail.com', 465)

smtp\_server.ehlo()

smtp\_server.login(sent\_from, rds\_config.gmail\_password)

smtp\_server.sendmail(sent\_from, to, email\_text)

smtp\_server.close()

print("Email sent successfully!")

except Exception as ex:

print("Something went wrong….",ex)

sent\_from = "noreply.petnation@gmail.com"

to = email

print(to)

subject = 'Details for volunteer.'

body = """Hi Dear,\nWe are from petnation! Don\'t worry..we will help you \nDetails of volunteer are listed below--

%s

Have a nice day.

"""%(json.dumps(volunteer\_data))

email\_text = """\

From: %s

To: %s

Subject: %s

%s

""" % (sent\_from, ", ".join(to), subject, body)

try:

smtp\_server = smtplib.SMTP\_SSL('smtp.gmail.com', 465)

smtp\_server.ehlo()

smtp\_server.login(sent\_from, rds\_config.gmail\_password)

smtp\_server.sendmail(sent\_from, to, email\_text)

smtp\_server.close()

print("Email sent successfully!")

except Exception as ex:

print("Something went wrong….",ex)

return {

"statusCode": 200,

"headers": {

"Content-Type": "application/json",

"Access-Control-Allow-Origin": "\*",

'Access-Control-Allow-Headers': 'Content-Type',

'Access-Control-Allow-Methods': 'OPTIONS,POST,GET'

},

"body": json.dumps(volunteer\_data)

}

**rds\_config.py**

#config file containing credentials for RDS MySQL instance

db\_username = "admin"

db\_password = "12345678"

db\_name = "petnation"

gmail\_user = "noreply.petnation@gmail.com"

gmail\_password = "Quantiphi"

**petnation\_request\_pending**

**lambda\_function.py**

import json

import sys

import logging

import rds\_config

import package.pymysql

# pip install --target ./package pymysql

# rds settings

rds\_host = "petnation.cdwhwe3geatz.us-east-1.rds.amazonaws.com"

username = rds\_config.db\_username

password = rds\_config.db\_password

db\_name = rds\_config.db\_name

def lambda\_handler(event, context):

logger = logging.getLogger()

logger.setLevel(logging.INFO)

try:

conn = package.pymysql.connect(rds\_host, user=username, passwd=password, db=db\_name, connect\_timeout=5)

except package.pymysql.MySQLError as e:

logger.error("ERROR: Unexpected error: Could not connect to MySQL instance.")

logger.error(e)

sys.exit()

logger.info("SUCCESS: Connection to RDS MySQL instance succeeded")

cur=conn.cursor()

email=event['queryStringParameters']['email']

cur.execute('select \* from request where petowner="'+email+'" and caretaker is NULL')

# cur.execute('select \* from request where petowner="chhavi@gmail.com" and caretaker is NULL')

row\_headers=[x[0] for x in cur.description]

response=cur.fetchall()

conn.commit()

conn.close()

print(response)

json\_data=[]

for result in response:

json\_data.append(dict(zip(row\_headers,result)))

return {

"statusCode": 200,

"headers": {

"Content-Type": "application/json",

"Access-Control-Allow-Origin": "\*",

'Access-Control-Allow-Headers': 'Content-Type',

'Access-Control-Allow-Methods': 'OPTIONS,POST,GET'

},

"body": json.dumps(json\_data)

}

**rds\_config.py**

#config file containing credentials for RDS MySQL instance

db\_username = "admin"

db\_password = "12345678"

db\_name = "petnation"

**petnation\_request\_past**

**lambda\_function.py**

import json

import sys

import logging

import rds\_config

import package.pymysql

import os

import boto3

# from base64 import b64decode

# ENCRYPTED = os.environ['db\_ps']

# password = boto3.client('kms').decrypt(

# CiphertextBlob=b64decode(ENCRYPTED),

# EncryptionContext={'LambdaFunctionName': os.environ['AWS\_LAMBDA\_FUNCTION\_NAME']}

# )['Plaintext'].decode('utf-8')

rds\_host = "petnation.cdwhwe3geatz.us-east-1.rds.amazonaws.com"

username = rds\_config.db\_username

# password = rds\_config.db\_password

password=os.environ['db\_ps']

db\_name = rds\_config.db\_name

def lambda\_handler(event, context):

logger = logging.getLogger()

logger.setLevel(logging.INFO)

try:

conn = package.pymysql.connect(rds\_host, user=username, passwd=password, db=db\_name, connect\_timeout=5)

except package.pymysql.MySQLError as e:

logger.error("ERROR: Unexpected error: Could not connect to MySQL instance.")

logger.error(e)

sys.exit()

logger.info("SUCCESS: Connection to RDS MySQL instance succeeded")

cur=conn.cursor()

email=event['queryStringParameters']['email']

cur.execute('select \* from request where petowner="'+email+'" and caretaker is not NULL and caretaker !="delete@gmail.com"')

# cur.execute('select \* from request where petowner="chhavi@gmail.com" and caretaker is not NULL')

row\_headers=[x[0] for x in cur.description]

response=cur.fetchall()

conn.commit()

conn.close()

print(response)

json\_data=[]

for result in response:

json\_data.append(dict(zip(row\_headers,result)))

return {

"statusCode": 200,

"headers": {

"Content-Type": "application/json",

"Access-Control-Allow-Origin": "\*",

'Access-Control-Allow-Headers': 'Content-Type',

'Access-Control-Allow-Methods': 'OPTIONS,POST,GET'

},

"body": json.dumps(json\_data)

}

**rds\_config.py**

#config file containing credentials for RDS MySQL instance

db\_username = "admin"

db\_password = "12345678"

db\_name = "petnation"

**petnation\_owner\_put**

**lambda\_function.py**

import json

import sys

import logging

import rds\_config

import package.pymysql

# pip install --target ./package pymysql

# rds settings

rds\_host = "petnation.cdwhwe3geatz.us-east-1.rds.amazonaws.com"

username = rds\_config.db\_username

password = rds\_config.db\_password

db\_name = rds\_config.db\_name

def lambda\_handler(event, context):

logger = logging.getLogger()

logger.setLevel(logging.INFO)

try:

conn = package.pymysql.connect(rds\_host, user=username, passwd=password, db=db\_name, connect\_timeout=5)

except package.pymysql.MySQLError as e:

logger.error("ERROR: Unexpected error: Could not connect to MySQL instance.")

logger.error(e)

sys.exit()

logger.info("SUCCESS: Connection to RDS MySQL instance succeeded")

cur=conn.cursor()

body=json.loads(event['body'])

email=body['email']

name=body['name']

mobile=body['mobile']

city=body['city']

state=body['state']

print(email+name+mobile+city+state)

cur.execute('insert into owner values("'+email+'","'+name+'","'+mobile+'","'+city+'","'+state+'")')

# cur.execute('insert into owner values("nihar@gmail.com","nihar","871322322","dewas","gujarat")')

# cur.execute('select \* from volunteer')

response=cur.fetchall()

conn.commit()

conn.close()

print(response)

return {

"statusCode": 200,

"headers": {

"Content-Type": "application/json",

"Access-Control-Allow-Origin": "\*",

'Access-Control-Allow-Headers': 'Content-Type',

'Access-Control-Allow-Methods': 'OPTIONS,POST,GET'

},

"body": "insert successfull"

}

**rds\_config.py**

#config file containing credentials for RDS MySQL instance

db\_username = "admin"

db\_password = "12345678"

db\_name = "petnation"