Title	Integrating Sendgrid service
Team ID	PNT2022TMID27987
Project Name	Project – Nutrition Assistant Application

Sendgrid Integration with python:

```python
from flask import Flask,render_template,request,url_for,redirect,session

from clarifai_grpc.grpc.api import service_pb2,resources_pb2

from clarifai_grpc.grpc.api.status import status_code_pb2

import ibm_db

import os

from sendgrid import SendGridAPIClient

from sendgrid.helpers.mail import Mail

import requests

from clarifai_grpc.channel.clarifai_channel import ClarifaiChannel

from clarifai_grpc.grpc.api import service_pb2_grpc


stub = service_pb2_grpc.V2Stub(ClarifaiChannel.get_grpc_channel())


YOUR_CLARIFAI_API_KEY="747efb7b11334fdab65de5ba402969dd"

YOUR_APPLICATION_ID="nutriaux"


app=Flask(__name__)

app.secret_key='a'

try:

    conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=ba99a9e6-d59e-4883-8fc0-
d6a8c9f7a08f.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=31321;SECURITY=SSL;SSLSer
verCertificate=DigiCertGlobalRootCA.crt;UID=gkr16989;PWD=WvN7xr79Kp6YfdL7","","")

except:

    print("Unable to connect: ",ibm_db.conn_error())
```

```python
@app.route("/")
def home():
    session['status_msg']=' '


    return render_template('Home.html')


@app.route("/reg")
def reg():
    return render_template('Registration.html')


@app.route("/register",methods=["POST","GET"])
def register():
    if request.method == 'POST' :
        firstName = request.form['firstName']
        lastName = request.form['lastName']


        session['email'] = request.form['email']
        phoneNumber = request.form['phoneNumber']
        password = request.form['password']
        sql = "SELECT * FROM registration WHERE EMAIL_ID=?"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt,1,session['email'])
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        print(account)
        message =
Mail(from_email='nutriaux04@gmail.com',to_emails=session['email'],subject="NutriAux -
Registration",html_content='<b>NutriAux welcomes you</b><br/><p>Your account has been
registered successfully</p>')
        try:
```

```python
        #USe the API key given in this link for security purposes -
https://docs.google.com/document/d/1xrF_chjAgbNJOCcsrGuVXtKWexPb5Ff5vmLpkscbgbU/edit?us
p=sharing

        #sg=SendGridAPIClient('##USE THE API GIVEN IN THE ABOVE LINK##')

        response=sg.send(message)

        print(response.status_code)

        print(response.body)

        print(response.headers)

    except Exception as e:

        print(e)

    if account:

        session['status_msg']= 'Account already exists ! Kindly login'

        return redirect(url_for('login'))

    else :

        insert_sql = "INSERT INTO registration VALUES (?,?,?,?,?)"

        prep_stmt = ibm_db.prepare(conn, insert_sql)

        ibm_db.bind_param(prep_stmt, 1, firstName)

        ibm_db.bind_param(prep_stmt, 2, lastName)

        ibm_db.bind_param(prep_stmt, 3, session['email'])

        ibm_db.bind_param(prep_stmt, 4, phoneNumber)

        ibm_db.bind_param(prep_stmt, 5, password)

        ibm_db.execute(prep_stmt)

    print('You have successfully registered !')

    return redirect(url_for('personaldetails'))


if __name__ == '__main__':

    app.run(debug=True)
```