

Title	Integrating Sendgrid service
Team ID	PNT2022TMID46444
Project Name	Project – Nutrition Assistant Application

Sendgrid Integration with 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())
```

```

@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:

```

#Use the API key given in this link for security purposes -
https://docs.google.com/document/d/1xrF_chjAgbNJOcCsrGuVXtKWexPb5Ff5vmLpkscbgbU/edit?usp=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(prepare_stmt, 1, firstName)

    ibm_db.bind_param(prepare_stmt, 2, lastName)

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

    ibm_db.bind_param(prepare_stmt, 4, phoneNumber)

    ibm_db.bind_param(prepare_stmt, 5, password)

    ibm_db.execute(prepare_stmt)

    print('You have successfully registered !')

    return redirect(url_for('personaldetails'))

if __name__ == '__main__':

    app.run(debug=True)
```