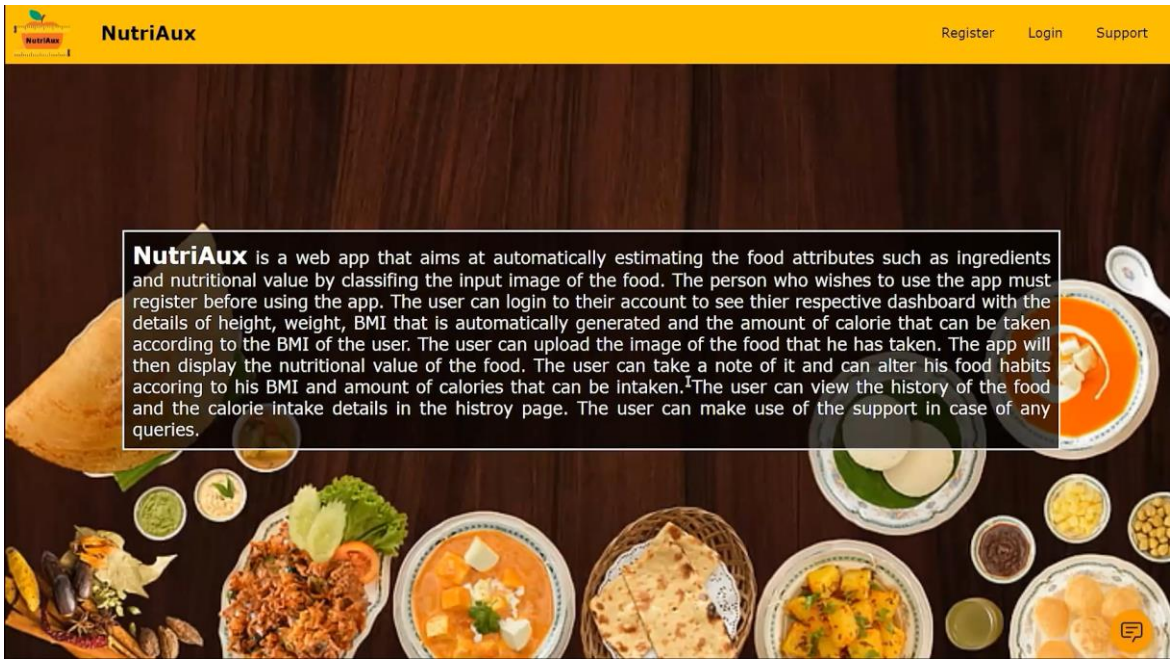
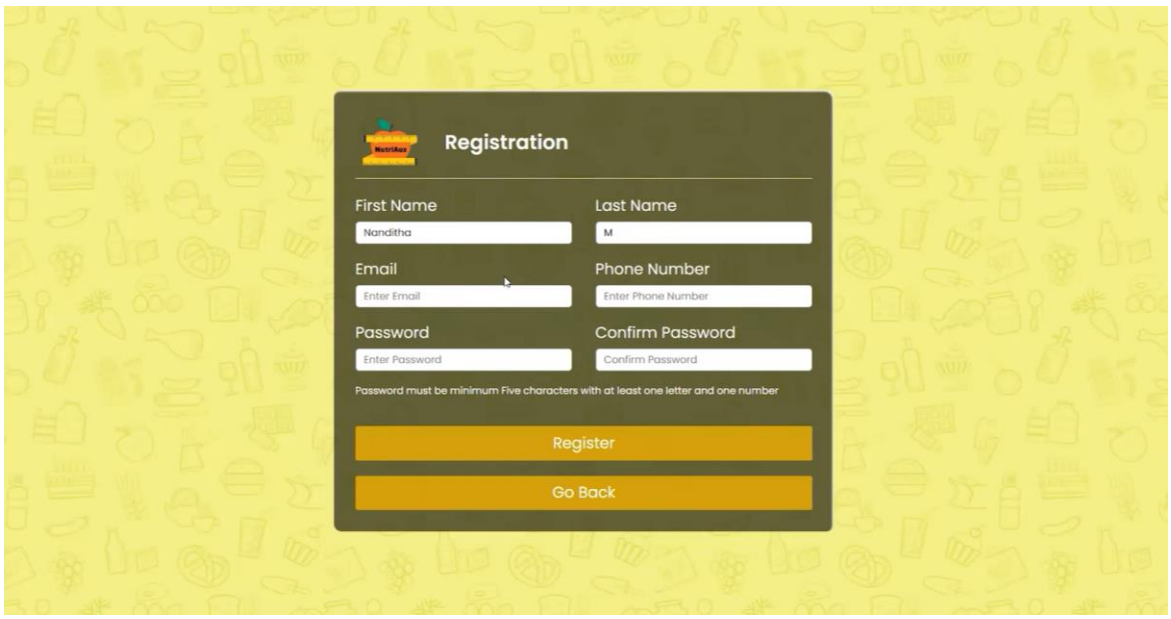
Title	Implementing web application
Team ID	PNT2022TMID46444
Project Name	Project – Nutrition Assistant Application

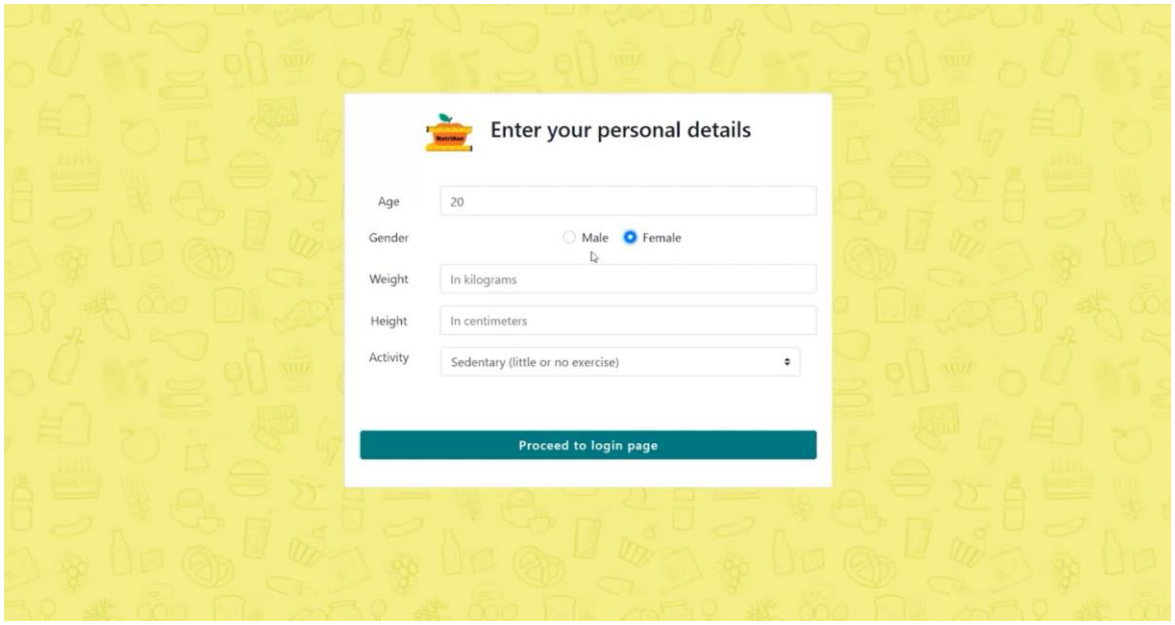
Step 1: Creating UI to interact with web application

Home Page:

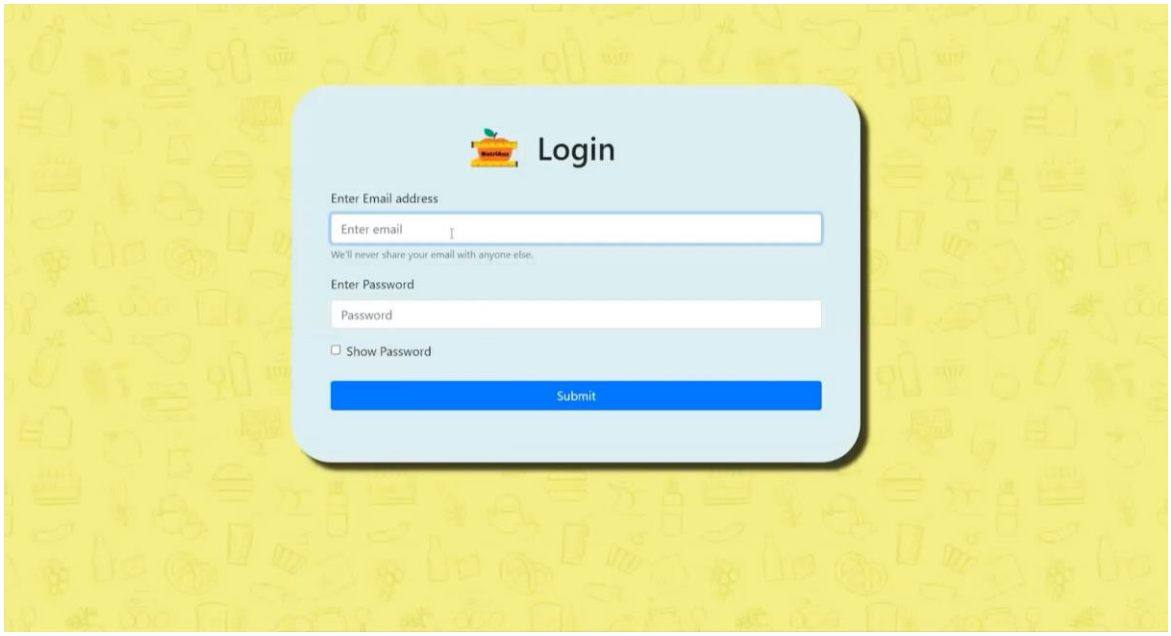


Registration Page:

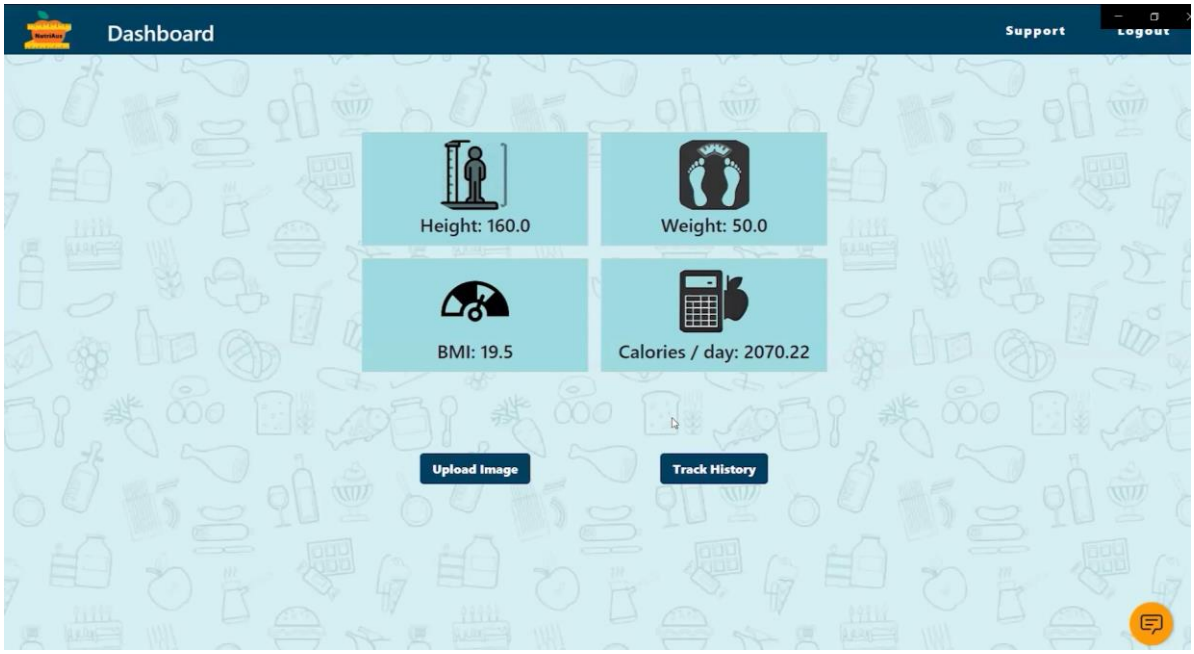



Enter your personal details
Age
20
Gender
Male
Female
Weight
In kilograms
Height
In centimeters
Activity
Sedentary (little or no exercise)
Proceed to login page

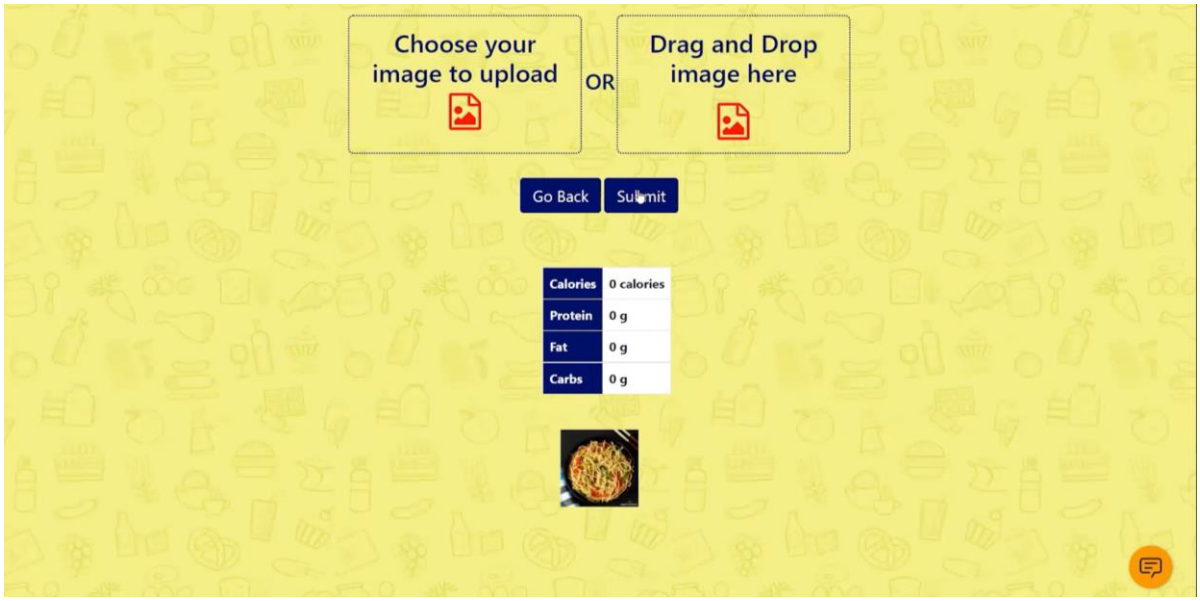
Login Page:


Login
Enter Email address
Enter email
We'll never share your email with anyone else.
Enter Password
Password
Show Password
Submit

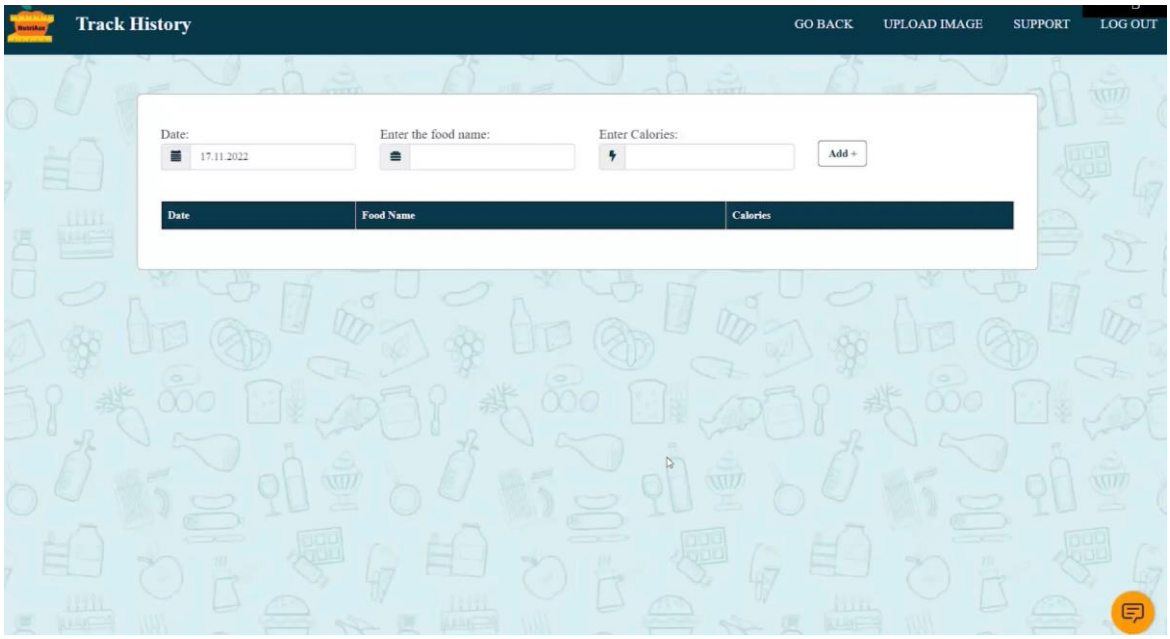
Dashboard:



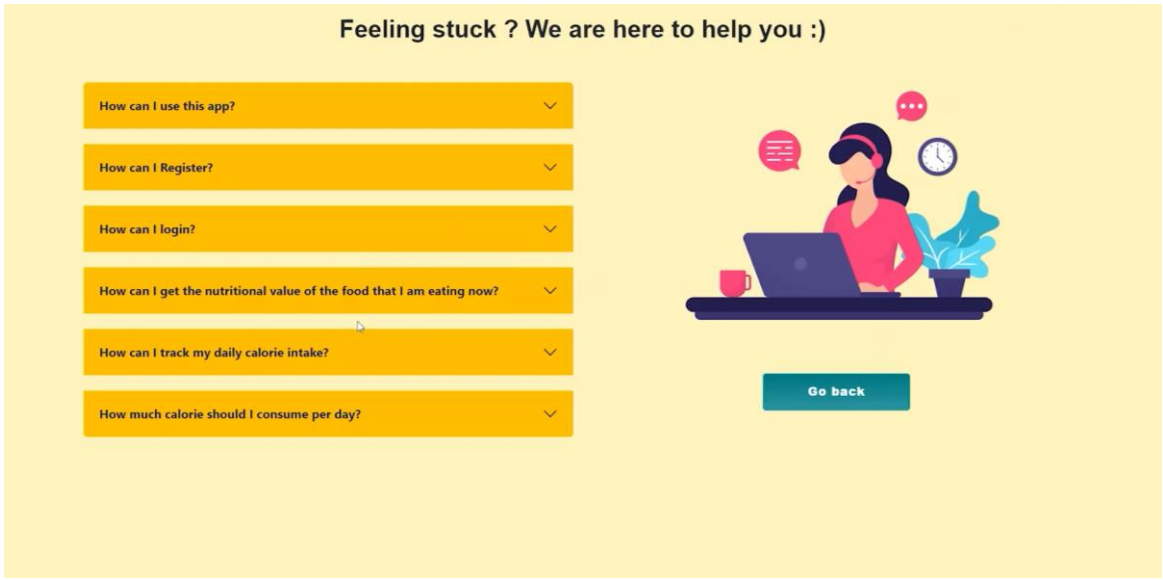
Upload Image:



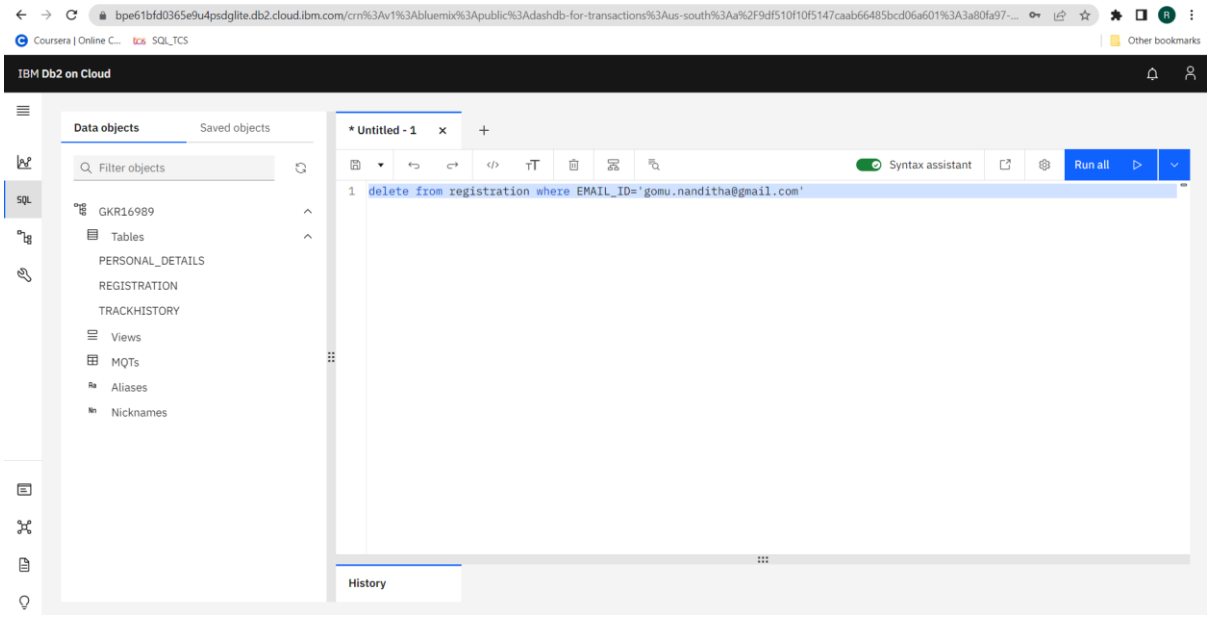
Track history:

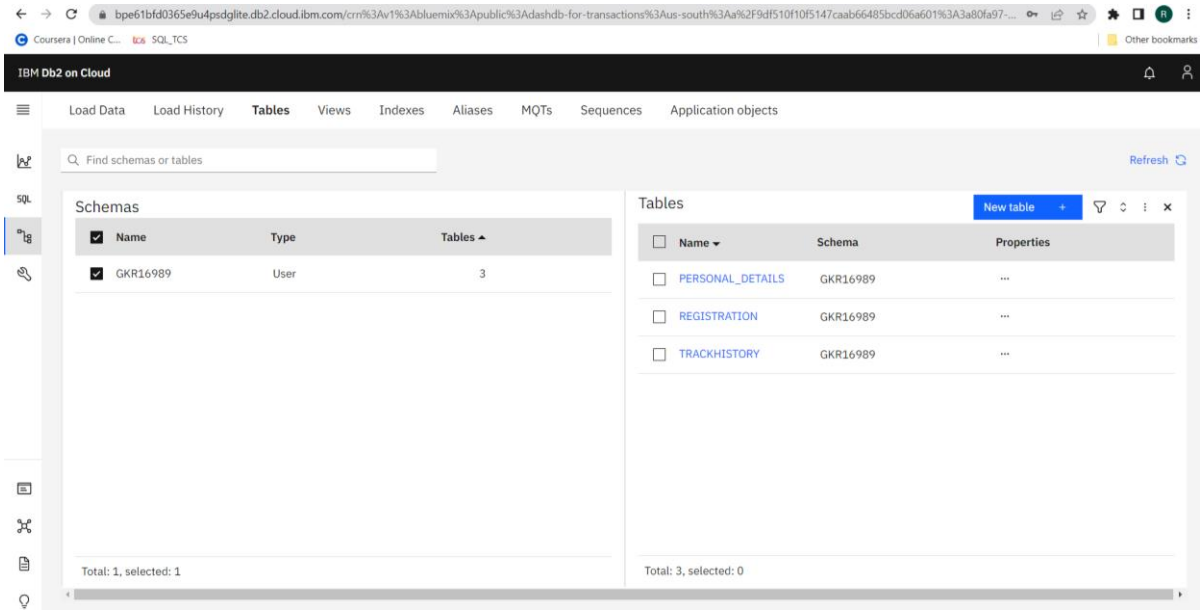


Support Page:



Step 2: Create IBM DB2 and connect with python





Connection with python

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;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=gkr16989;PWD=WvN7xr79Kp6YfdL7","","")

except:

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

Step 3: API connectio code python

```
from clarifai_grpc.grpc.api import service_pb2,resources_pb2
from clarifai_grpc.grpc.api.status import status_code_pb2
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"
img = request.files['file']
        print("working")

        path='./static/'+session['email']+'.jpg'
        img.save(path)

        metadata=(('authorization','Key '+YOUR_CLARIFAI_API_KEY),)
        with open(path,"rb") as f:
           file_bytes=f.read()
           request1=service_pb2.PostModelOutputsRequest(
              model_id='9504135848be0dd2c39bdab0002f78e9',
              inputs=[
                 resources_pb2.Input(
                    data=resources_pb2.Data(
                       image=resources_pb2.Image(
                          base64=file_bytes
                       )
                    )
                 )
              ])
```

```
        response =stub.PostModelOutputs(request1, metadata=metadata)
        if response.status.code != status_code_pb2.SUCCESS:
            raise Exception("Request failed, status code: " + str(response.status.code))


        for concept in response.outputs[0].data.concepts:
            print('%12s: %.2f' % (concept.name, concept.value))
        api_url = 'https://api.spoonacular.com/recipes/guessNutrition?title='
        query = response.outputs[0].data.concepts[0].name
        response = requests.get(api_url + query, headers={'X-Api-Key':
'8f123f2f983b4b69bfe1e4a25f7bfb06'})
        if response.status_code == requests.codes.ok:
            fullresponse=response.json()
            calories=str(fullresponse['calories']['value'])+' '+str(fullresponse['calories']['unit'])
            protein=str(fullresponse['protein']['value'])+' '+str(fullresponse['protein']['unit'])
            fat=str(fullresponse['fat']['value'])+' '+str(fullresponse['fat']['unit'])
            carbs=str(fullresponse['carbs']['value'])+' '+str(fullresponse['carbs']['unit'])
            print(calories,protein,fat,carbs)
            print(type(fullresponse['calories']['value']))
            print(fullresponse)
        else:
            print("Error:", response.status_code, response.text)
        return render_template('upload.html',calories=calories,fat=fat,protein=protein,carbs=carbs)
    except Exception as e:
        print(e)
    return "Error Occured"
```