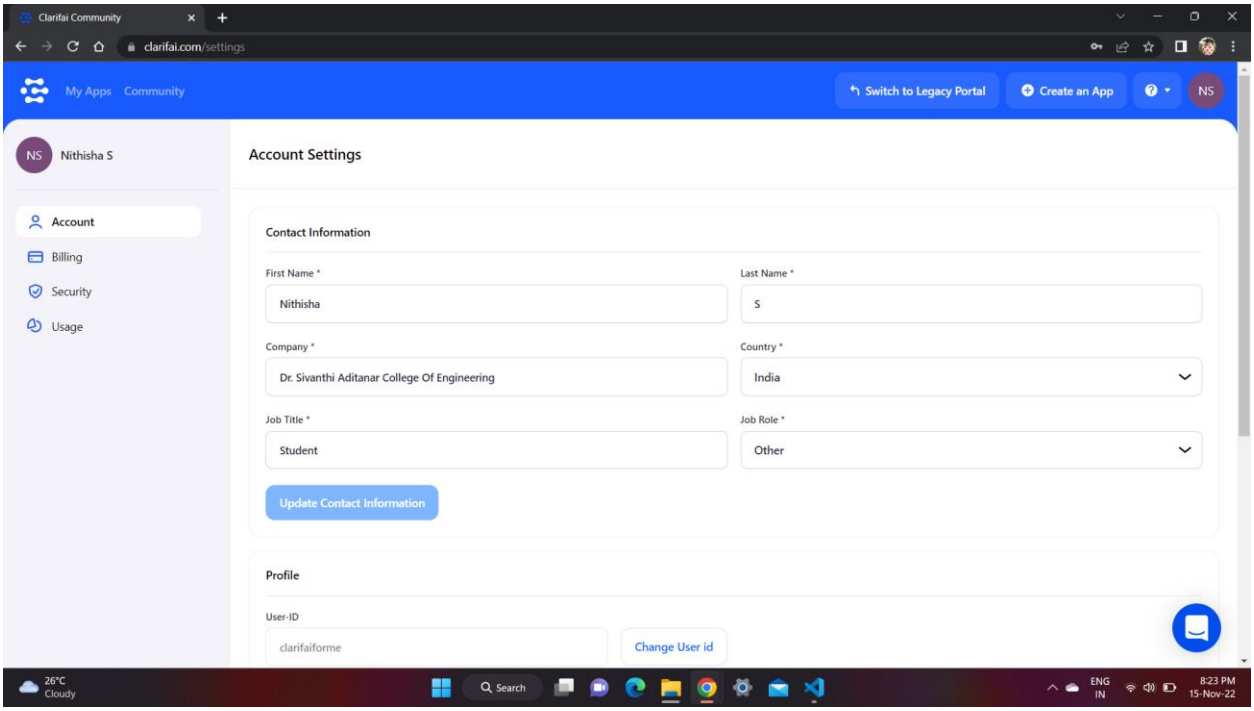
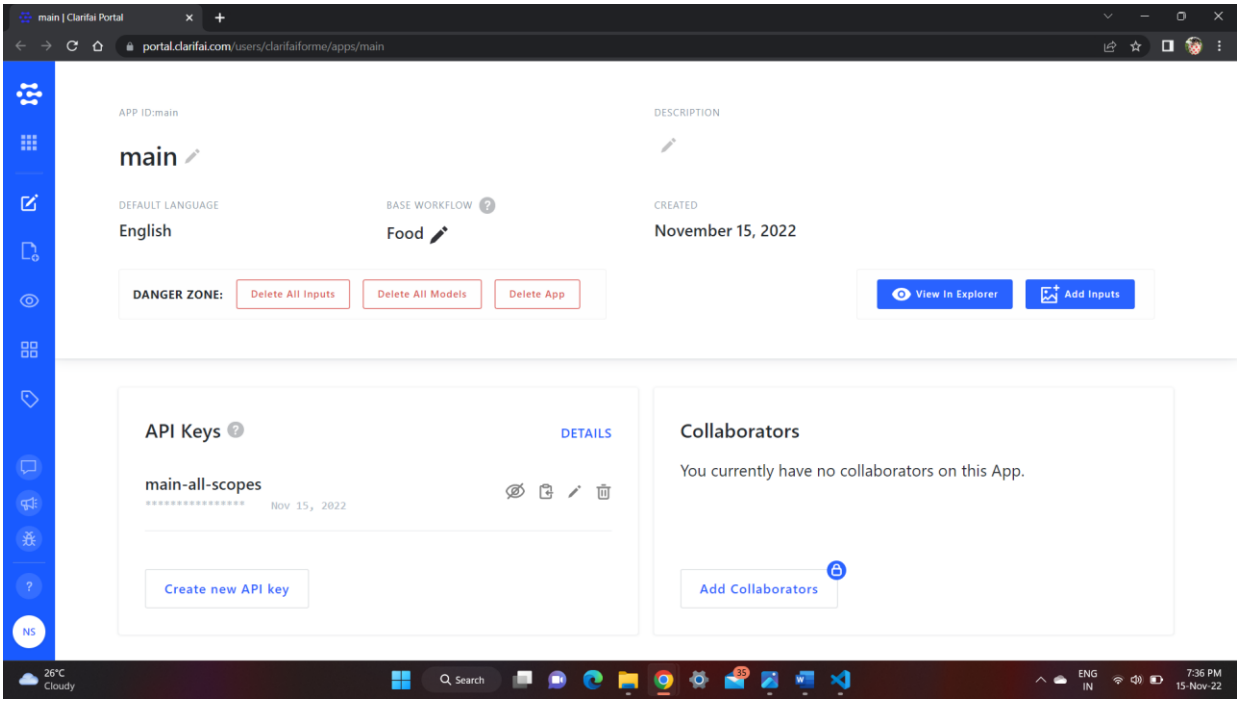
Implementing Web Application
Integrate Nutrition API

Team ID	PNT2022TMID49745
Project Name	Nutrition Assistant Application

Clarifai:



Clarifai API:



Python code to integrate with the Nutrition API:

```
from clarifai_grpc.channel.clarifai_channel import ClarifaiChannel
from clarifai_grpc.grpc.api import resources_pb2, service_pb2, service_pb2_grpc
from clarifai_grpc.grpc.api.status import status_pb2, status_code_pb2
import os

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


metadata = (('authorization', 'Key ' + '                                    '),)

userDataObject = resources_pb2.UserAppIDSet(user_id='clarifaiforme',
app_id='main')


def food_identifier(string):
    with open(string, "rb") as f:
        file_bytes = f.read()

    post_model_outputs_response = stub.PostModelOutputs(
        service_pb2.PostModelOutputsRequest(
            user_app_id=userDataObject,
            model_id="food-item-recognition",
```

```
        version_id="1d5fd481e0cf4826aa72ec3ff049e044
            inputs=[
                resources_pb2.Input(
                    data=resources_pb2.Data(
                        image=resources_pb2.Image(
                            base64=file_bytes
                        )
                    )
                )
            ]
        ),
        metadata=metadata
    )

    if post_model_outputs_response.status.code != status_code_pb2.SUCCESS:
        print("There was an error with your request!")
        print("\tCode:
{}".format(post_model_outputs_response.outputs[0].status.code))
        print("\tDescription:
{}".format(post_model_outputs_response.outputs[0].status.description))
        print("\tDetails:
{}".format(post_model_outputs_response.outputs[0].status.details))
        raise Exception("Post model outputs failed, status: " +
post_model_outputs_response.status.description)

    output = post_model_outputs_response.outputs[0]

    print("Predicted concepts:")
    for concept in output.data.concepts:
        print("\t%s %.2f" % (concept.name, concept.value))

    return output.data.concepts[0].name
```