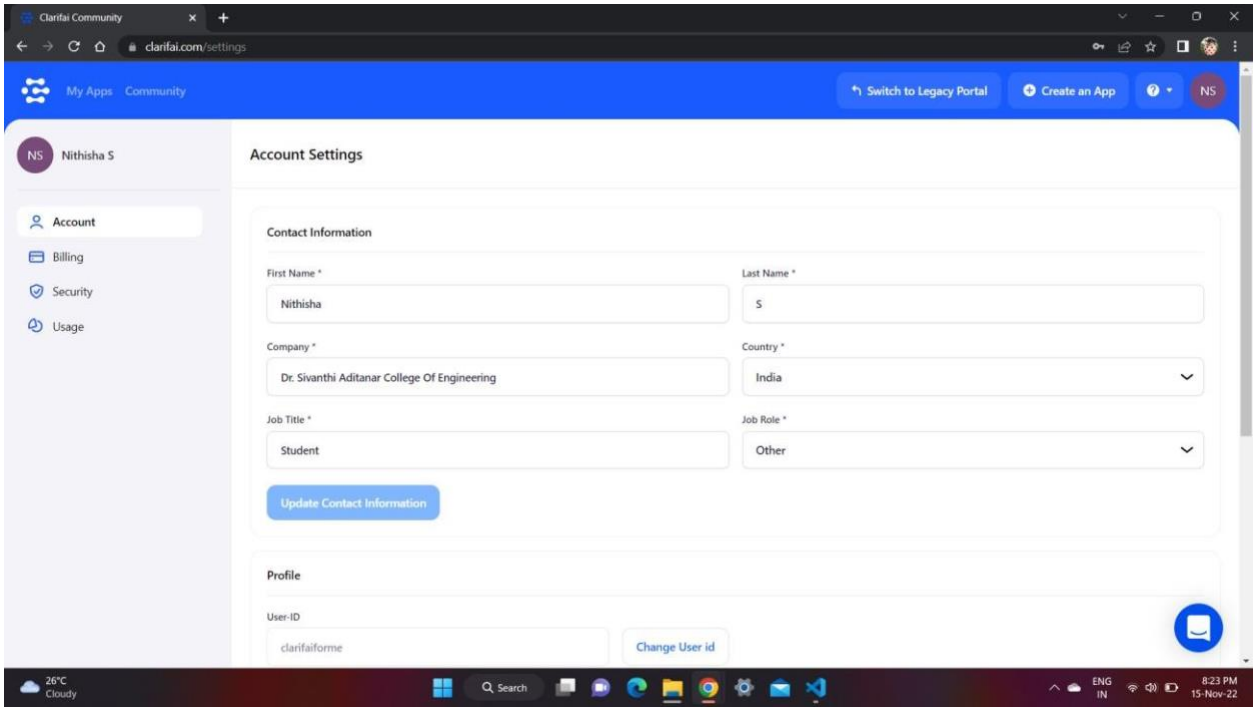
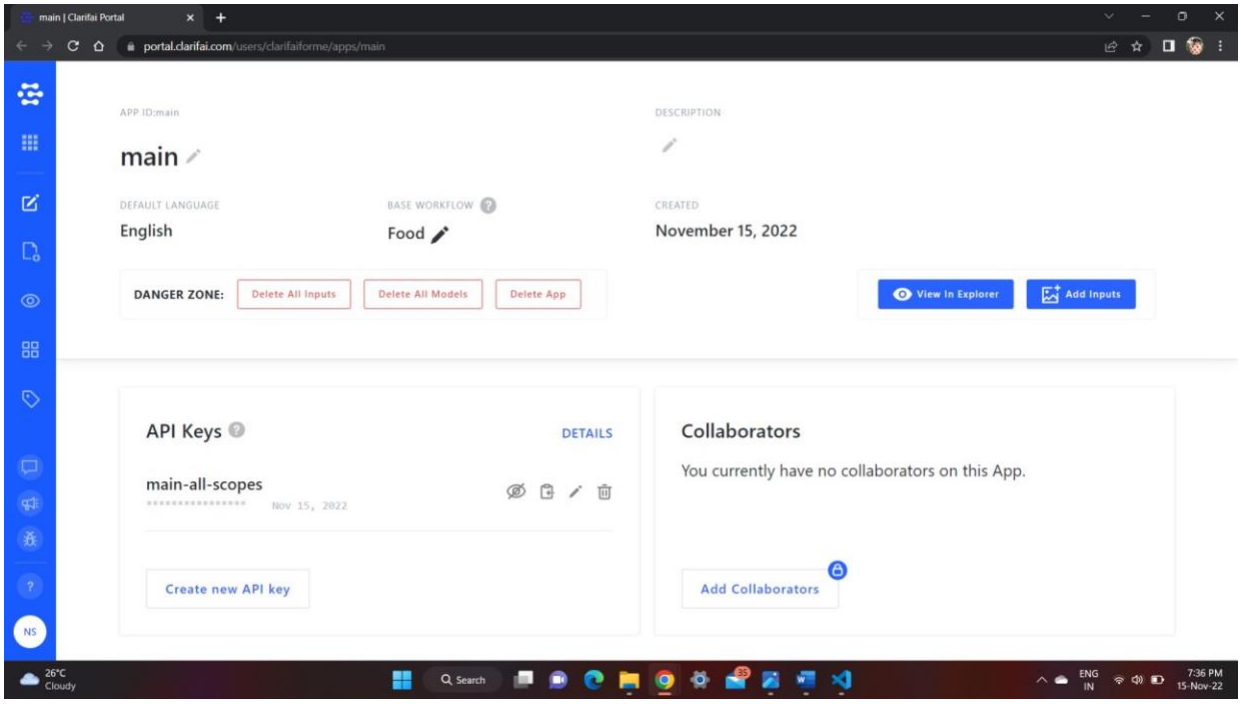
Implementing Web Application
Integrate Nutrition API

Date	18 November 2022
Team ID	PNT2022TMID50239
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
```