

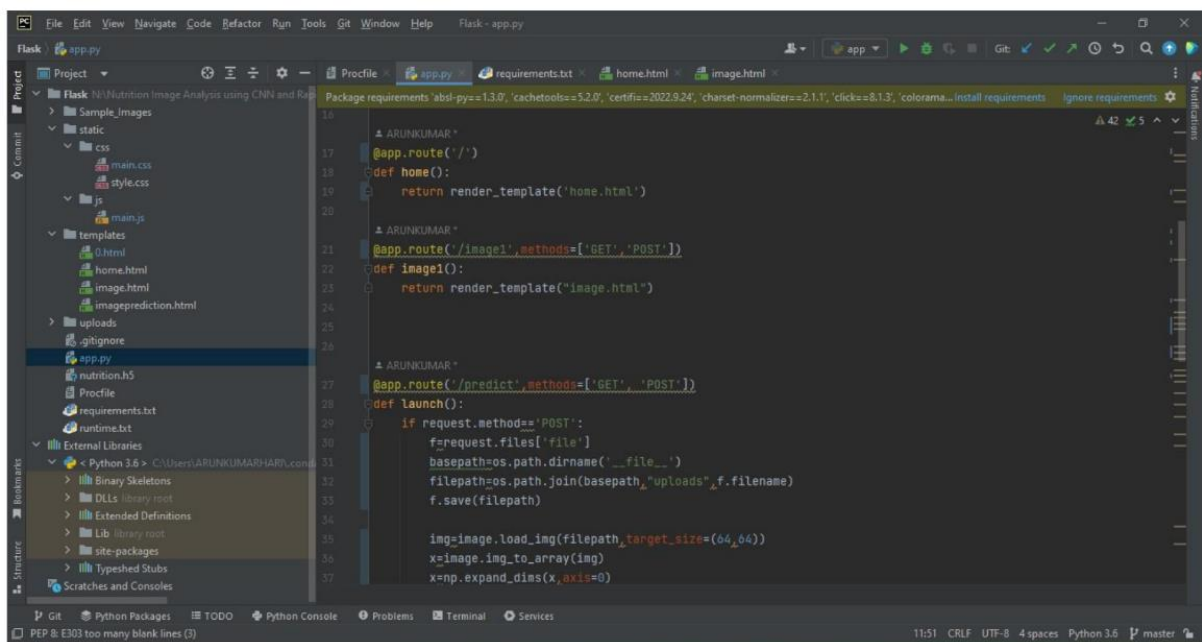
Routing to HTML Pages

Team ID: PNT2022TMID44046

Project Name: AI-powered Nutrition Analyzer for Fitness Enthusiasts

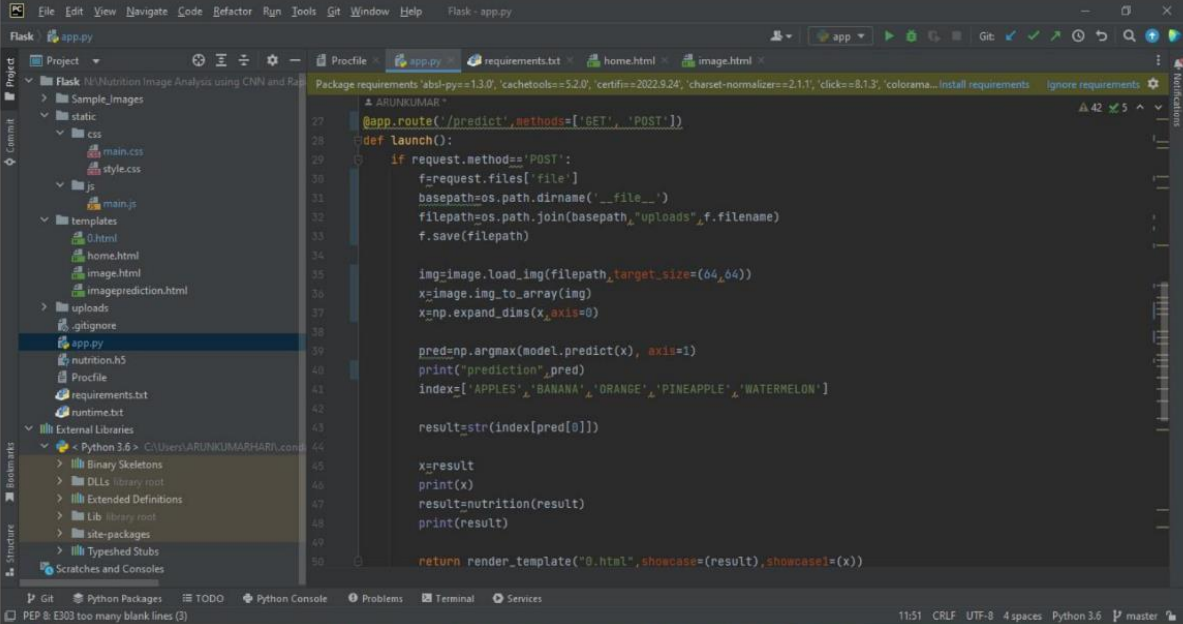
Routing to the HTML pages:

Here, the declared constructor is used to route to the HTML page created earlier. In the above example, the '/' URL is bound with the home.html function. Hence, when the home page of the webserver is opened in the browser, the HTML page is rendered. Whenever you enter the values from the HTML page the values can be retrieved using the POST Method. Here, "home.html" is rendered when the home button is clicked on the UI



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```

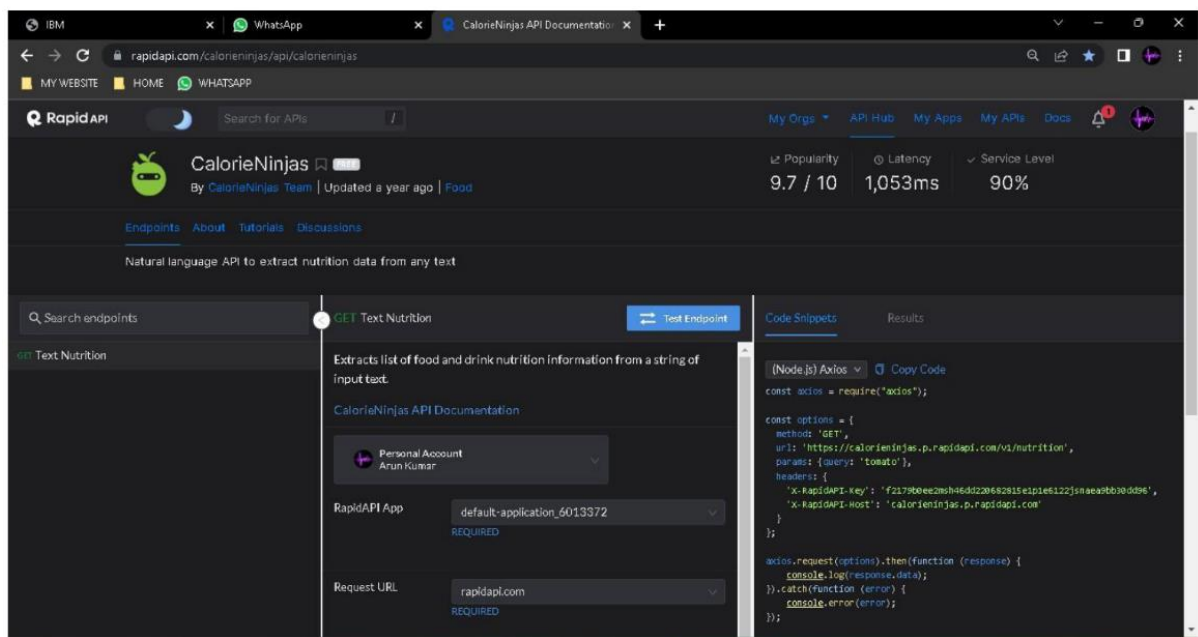
and finally, we will be predicting the results with the help of our model which we trained and depending upon the class identified we will showcase the class name and its properties by rendering the respective html pages.



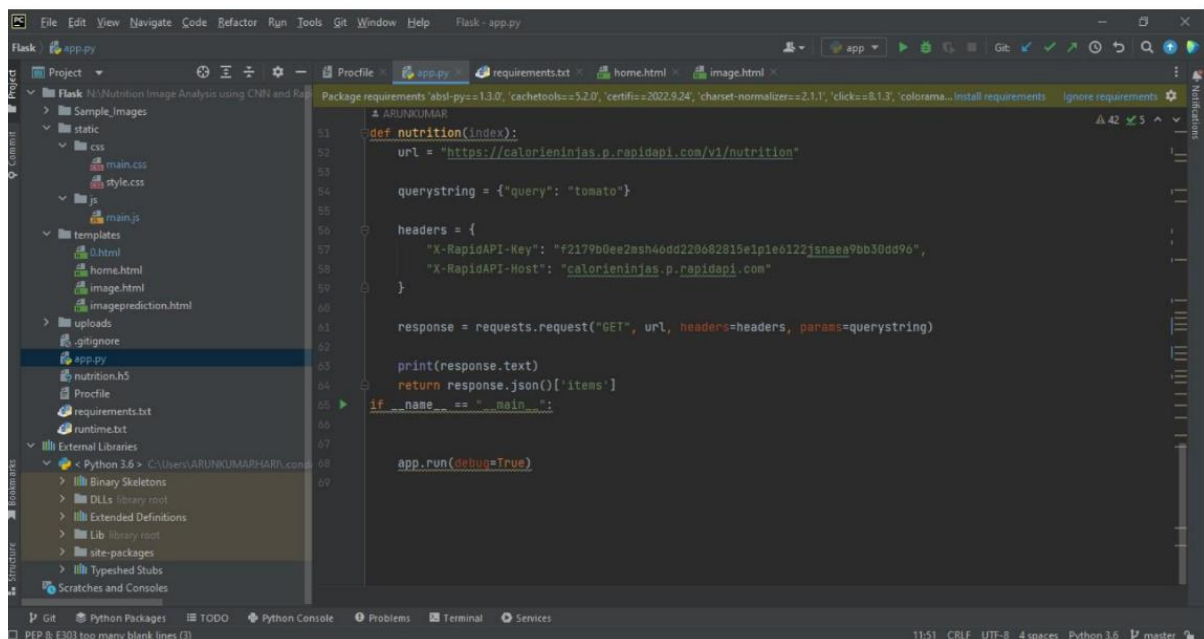
The screenshot shows a PyCharm IDE with a Flask application. The left sidebar displays the project structure, including folders for static files (css, js, templates) and uploads. The main editor window shows the `app.py` file with the following code:

```
27 @app.route('/predict', methods=['GET', 'POST'])
28 def launch():
29     if request.method == 'POST':
30         f = request.files['file']
31         basepath = os.path.dirname(__file__)
32         filepath = os.path.join(basepath, 'uploads', f.filename)
33         f.save(filepath)
34
35         img = image.load_img(filepath, target_size=(64, 64))
36         x = image.img_to_array(img)
37         x = np.expand_dims(x, axis=0)
38
39         pred = np.argmax(model.predict(x), axis=1)
40         print("prediction", pred)
41         index = ['APPLES', 'BANANA', 'ORANGE', 'PINEAPPLE', 'WATERMELON']
42
43         result = str(index[pred[0]])
44
45         x = result
46         print(x)
47         result = nutrition(result)
48         print(result)
49
50     return render_template("0.html", showcase=(result), showcase1=(x))
```

Here we will be using Rapid API Using Rapid API, developers can search and test the APIs, subscribe, and connect to the APIs— all with a single account, single API key and single SDK. Engineering teams also use Rapid API to share internal APIs and microservice documentation.



The link above will allow us to test the food item and will result the nutrition content present in the food item. NOTE: When we keep hitting the API the limit of it might expire. So making a smart use of it will be an efficient way.



Finally, Run the application This is used to run the application in a localhost. The local host runs on port number 5000.(We can give different port numbers).