

TEAM ID : PNT2022TMID12147

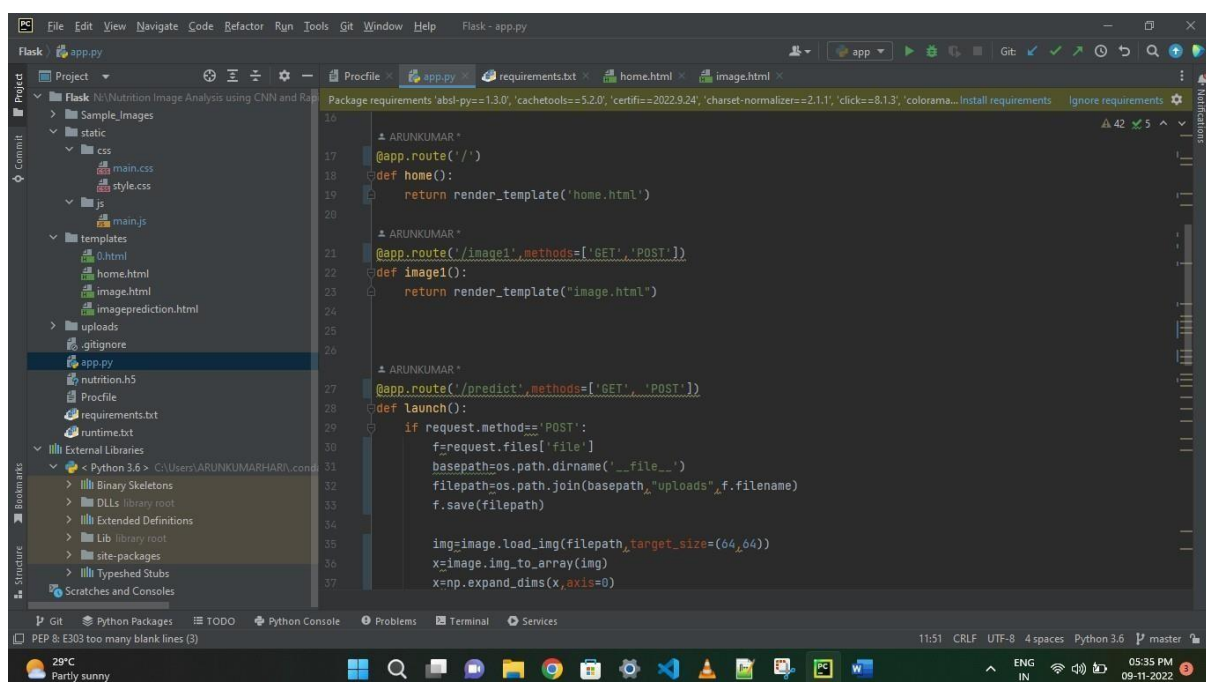
PROJECT NAME : AI-powered Nutrition Analyzer for Fitness Enthusiasts

Routing To The Html Page

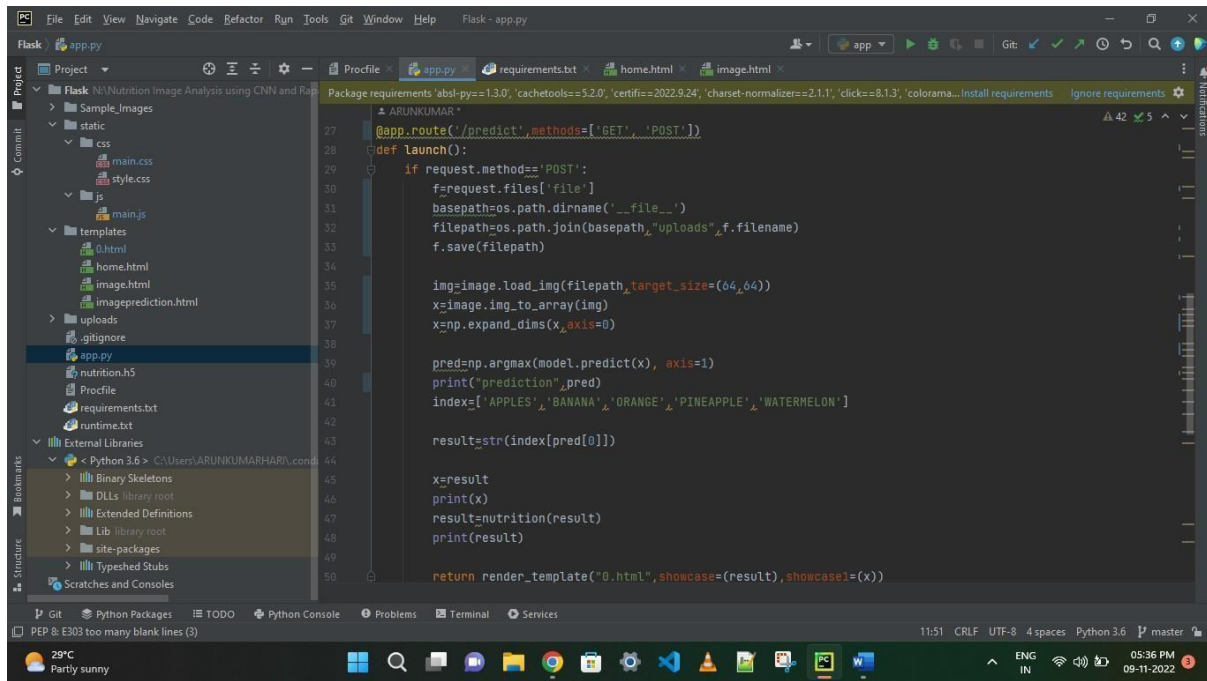
Here, the declared constructor is used to route to the HTML page created earlier.

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



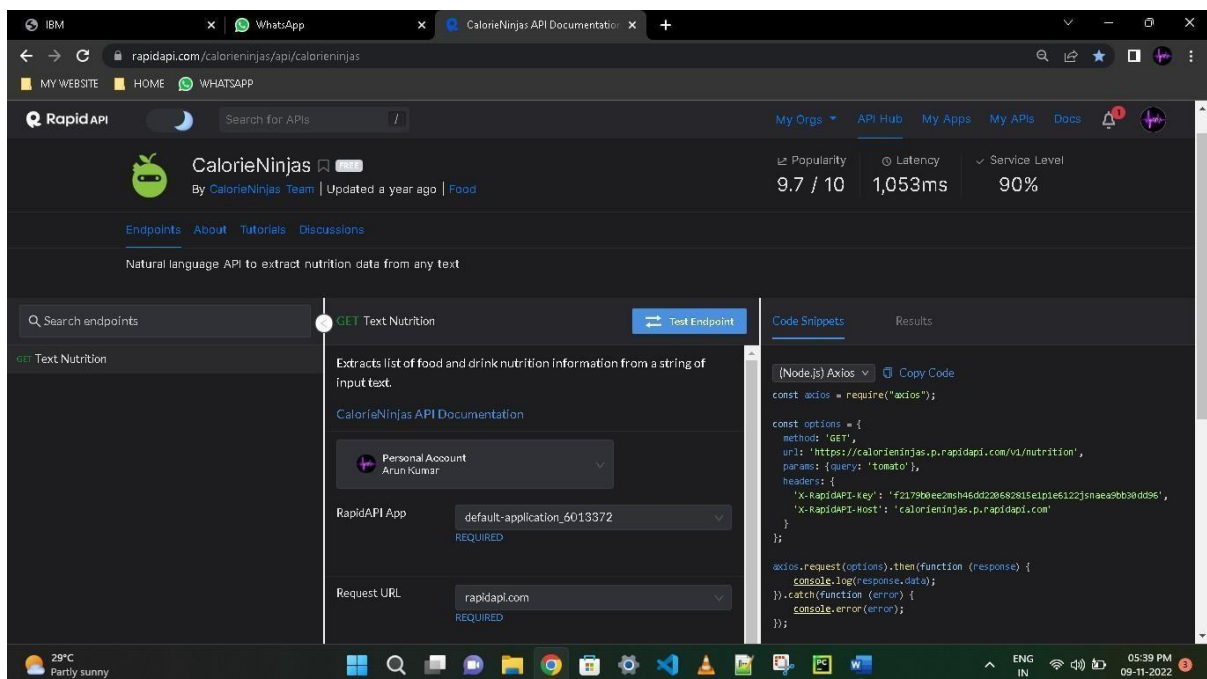
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API Integration:

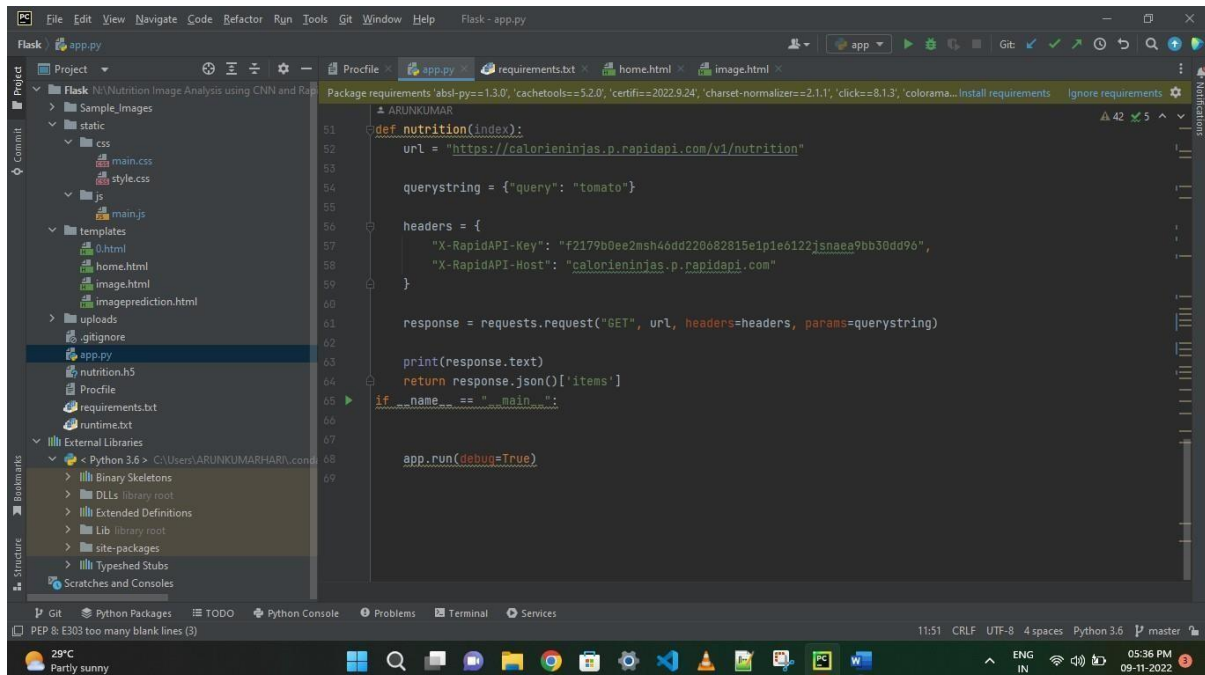
Here we will be using Rapid API

Using RapidAPI, 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 RapidAPI 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.



The screenshot shows a Visual Studio Code editor window with a project named 'Flask - app.py'. The file explorer on the left shows a directory structure with files like 'main.css', 'style.css', 'main.js', 'home.html', 'image.html', 'imageprediction.html', 'app.py', 'nutrition.h5', 'requirements.txt', and 'runtime.txt'. The main editor displays the code for 'app.py', which includes a 'nutrition(index)' function that makes a GET request to a nutrition API. The code is as follows:

```
51 def nutrition(index):
52     url = "https://calorieninjas.p.rapidapi.com/v1/nutrition"
53
54     querystring = {"query": "tomato"}
55
56     headers = {
57         "X-RapidAPI-Key": "f2179b0ee2msh46dd220682815e1p1e6122jsnaea9bb30dd96",
58         "X-RapidAPI-Host": "calorieninjas.p.rapidapi.com"
59     }
60
61     response = requests.request("GET", url, headers=headers, params=querystring)
62
63     print(response.text)
64     return response.json()['items']
65
66 if __name__ == "__main__":
67
68     app.run(debug=True)
69
```

The status bar at the bottom indicates the file is using Python 3.6, has 4 spaces for indentation, and is on the master branch. The system tray shows the date as 09-11-2022 and the time as 05:36 PM.

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)