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1 import urllib.request
2 from random import randint
3 import requests
4 import json
5 from IPython.display import display, HTML
6 from ipywidgets import interact_manual
7 from PIL import Image
8 import time
9
10 url_cocktails = 'https://the-cocktail-db.p.rapidapi.com/random.php'
11 url_recipe = "https://spoonacular-recipe-food-nutrition-v1.p.rapidapi.com/recipes/complexSearch"
12
13 with Image.open("cooking-hotpot.webp") as image:
14     image.show()
15
16 def randomCocktail():
17     url = "https://the-cocktail-db.p.rapidapi.com/random.php"
18
19     headers = {
20         "X-RapidAPI-Host": "the-cocktail-db.p.rapidapi.com",
21         "X-RapidAPI-Key": "5f8016093amsh70f67b889df60c2p19318fjsnc68b4811bde3"
22     }
23
24     response = requests.request("GET", url, headers=headers)
25     data = response.json()
26     responseFinal = data['drinks'][0]['strDrink']
27     return responseFinal
28
29
30 def getFoodImage(food):
31     querystring = {"query" : food,
32                   "addRecipeInformation": "true"}
33
34     headers = {
35         "X-RapidAPI-Host": "spoonacular-recipe-food-nutrition-v1.p.rapidapi.com",
36         "X-RapidAPI-Key": "5f8016093amsh70f67b889df60c2p19318fjsnc68b4811bde3"
37     }
38     response = requests.request("GET", url_recipe, headers=headers, params=querystring)
39     data = response.json()
40
41
42
43 def getFood(food):
44     querystring = {"query" : food,
45                   "addRecipeInformation": "true"}
46
47     headers = {
48         "X-RapidAPI-Host": "spoonacular-recipe-food-nutrition-v1.p.rapidapi.com",
49         "X-RapidAPI-Key": "5f8016093amsh70f67b889df60c2p19318fjsnc68b4811bde3"
50     }

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51 response = requests.request("GET", url_recipe, headers=headers, params=querystring)
52 data = response.json()
53 if len(data['results']) < 1:
54     print('error, no valid recipe')
55 else:
56     print(data['results'][0]['title'])
57
58 def getRecipeID(food):
59     querystring = {"query" : food,
60                   "addRecipeInformation": "true"}
61 }
62 headers = {
63     "X-RapidAPI-Host": "spoonacular-recipe-food-nutrition-v1.p.rapidapi.com",
64     "X-RapidAPI-Key": "5f8016093amsh70f67b889df60c2p19318fjsnc68b4811bde3"}
65 }
66 response = requests.request("GET", url_recipe, headers=headers, params=querystring)
67 data = response.json()
68 if len(data['results']) < 1:
69     return
70 else:
71     data_final = data['results'][0]['id']
72     return data_final
73
74 def getRecipe(data_final):
75     url = f"https://spoonacular-recipe-food-nutrition-v1.p.rapidapi.com/recipes/{data_final}/information"
76     headers = {
77         "X-RapidAPI-Host": "spoonacular-recipe-food-nutrition-v1.p.rapidapi.com",
78         "X-RapidAPI-Key": "5f8016093amsh70f67b889df60c2p19318fjsnc68b4811bde3"}
79     }
80     response = requests.request("GET", url, headers=headers)
81     data = response.json()
82     print(data['instructions'])
83
84 def getSimilarFoods(data_final):
85     recipeList = []
86     url = f"https://spoonacular-recipe-food-nutrition-v1.p.rapidapi.com/recipes/{data_final}/similar"
87     headers = {
88         "X-RapidAPI-Host": "spoonacular-recipe-food-nutrition-v1.p.rapidapi.com",
89         "X-RapidAPI-Key": "5f8016093amsh70f67b889df60c2p19318fjsnc68b4811bde3"}
90     }
91     response = requests.request("GET", url, headers=headers)
92     data = response.json()
93     for i in range(0,2):
94         recipeList.append(data[i]['title'])
95     return recipeList
96
97 def getIngredients(data_final):
98     foodParts = []
99     url = f"https://spoonacular-recipe-food-nutrition-v1.p.rapidapi.com/recipes/{data_final}/ingredientWidget.json"
100

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101     headers = {
102         "X-RapidAPI-Host": "spoonacular-recipe-food-nutrition-v1.p.rapidapi.com",
103         "X-RapidAPI-Key": "5f8016093amsh70f67b889df60c2p19318fjsnc68b4811bde3"
104     }
105
106     response = requests.request("GET", url, headers=headers)
107     data = response.json()
108     for i in range(0, len(data['ingredients'])):
109         foodParts.append(data['ingredients'][i]['name'])
110     return foodParts
111
112 def foodDetails(food):
113     detailList = []
114     url = "https://spoonacular-recipe-food-nutrition-v1.p.rapidapi.com/recipes/complexSearch"
115
116     querystring = {"query": "sushi", "addRecipeInformation": "true"}
117
118     headers = {
119         "X-RapidAPI-Host": "spoonacular-recipe-food-nutrition-v1.p.rapidapi.com",
120         "X-RapidAPI-Key": "5f8016093amsh70f67b889df60c2p19318fjsnc68b4811bde3"
121     }
122
123     response = requests.request("GET", url, headers=headers, params=querystring)
124     data = response.json()
125     detailList.append(data['results'][0]['cuisines'][0])
126     detailList.append(f"Cooking Minutes: {data['results'][0]['cookingMinutes']} minutes")
127     detailList.append(f"Ready in: {data['results'][0]['readyInMinutes']} minutes")
128
129     return detailList
130
131
132
133 @interact_manual(food = "enter a meal that you want to eat")
134 def mainFunction(food):
135     getFoodImage(food)
136     time.sleep(0.2)
137     getFood(food)
138     time.sleep(0.2)
139     print("")
140     print("Ingredients: ")
141     for elements in getIngredients(getRecipeID(food)):
142         print(elements)
143     time.sleep(0.2)
144     print("")
145     print("Method: ")
146     print(getRecipe(getRecipeID(food)))
147     time.sleep(0.2)
148     print("")
149     print("Some Info")
150     for details in foodDetails(food):
151         print(details)
152     time.sleep(0.2)
153     print("")
154     print(f"Some foods you might be interested in:")
155     for food in getSimilarFoods(getRecipeID(food)):
156         print(food)
157     time.sleep(0.2)

```

