Routing To The Html Page

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PROJECT NAME : AI-Powered Nutrition Analyzer for fitness enthusiasts

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 web server 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

```
@app.route('/')
def home():
    return render_template('image.html')
@app.route('/image',methods=['GET','POST'])
def image1():
    return render_template('image.html')
```

When "image is uploaded "on the UI, the launch function is executed

```
@app.route('/predict',methods=['GET', 'POST'])
def launch():
```

It will take the image request and we will be storing that image in our local system then we will convert the image into our required size 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.

```
@app.route('/predict',methods=['GET', 'POST'])
def launch():
    if request.method=='POST':
        f=request.files['file']
        basepath=os.path.dirname('C:\\Users\\ELCOT\\Desktop\\loki\\Samp
le_Images\\')
        filepath=os.path.join(basepath+f.filename,)
        f.save(filepath)
        print(filepath)
        img=image.load_img(filepath,target_size=(64,64))
        x=image.img_to_array(img)
        x=np.expand_dims(x,axis=0)
        pred=np.argmax(model.predict(x), axis=1)
        print("prediction",pred)
        index=['APPLES','BANANA','ORANGE','PINEAPPLE','WATERMELON']
        result=str(index[pred[0]])
        x=result
        print(x)
        result=nutrition(result)
        print(result)
        return render_template("0.html",showcase=(result),showcase1=(x))

def nutrition(result):
    url = "https://calorieninjas.p.rapidapi.com/v1/nutrition"
    querystring = {"query": result}
    headers = {
        "X-RapidAPI-Key":
"f2179b0ee2msh46dd220682815e1p1e6122jsnaea9bb30dd96",
        "X-RapidAPI-Host": "calorieninjas.p.rapidapi.com"
    }
    response = requests.request("GET", url, headers=headers,
params=querystring)
    return response.json()['items']
```

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)

```
if __name__ == "__main__":
    app.run(debug=True)
```