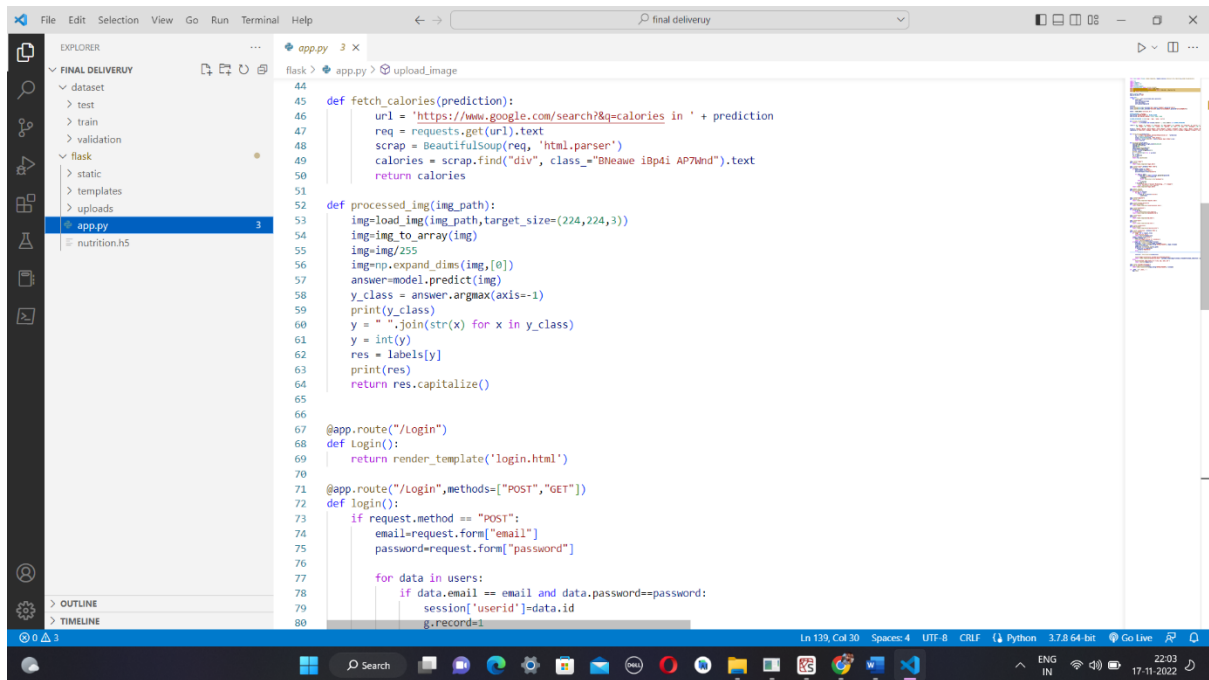


## Project Structure

Team Id	PNT2022TMID07306
Project Name	AI-powered Nutrition Analyzer for Fitness Enthusiasts



The screenshot shows a VS Code editor window with the following structure:

- EXPLORER: A file explorer on the left showing the project structure. The 'FINAL DELIVERY' folder is expanded, showing subfolders: dataset, test, train, validation, flask, static, templates, uploads, and nutrition.h5. The 'app.py' file is selected.
- EDITOR: The main editor area showing the code for 'app.py'. The code includes functions for fetching calories, processing images, and a login route.
- TERMINAL: A terminal window at the bottom showing the command 'python app.py' and its output.

```
44
45 def fetch_calories(prediction):
46     url = 'https://www.google.com/search?q=calories in ' + prediction
47     req = requests.get(url).text
48     scrap = BeautifulSoup(req, 'html.parser')
49     calories = scrap.find("div", class_="BNeawe iBp4i AP7Wnd").text
50     return calories
51
52 def processed_img(img_path):
53     img=load_img(img_path,target_size=(224,224,3))
54     img=img_to_array(img)
55     img=img/255
56     img=np.expand_dims(img,[0])
57     answer=model.predict(img)
58     y_class = answer.argmax(axis=-1)
59     print(y_class)
60     y = " ".join(str(x) for x in y_class)
61     y = int(y)
62     res = labels[y]
63     print(res)
64     return res.capitalize()
65
66
67 @app.route("/login")
68 def login():
69     return render_template('login.html')
70
71 @app.route("/login",methods=["POST","GET"])
72 def login():
73     if request.method == "POST":
74         email=request.form["email"]
75         password=request.form["password"]
76
77         for data in users:
78             if data.email == email and data.password==password:
79                 session['userid']=data.id
80                 gurecord=1
```

- Dataset folder contains the training and testing images for training our model.
- We are building a Flask Application that needs HTML pages stored in the templates folder and a python script app.py for serverside scripting
- we need the model which is saved and the saved model in this content is a nutrition.h5
- templates folder contains home.html, image.html, imageprediction.html pages.
- Statis folder had the css and js files which are necessary for styling the html page and for executing the actions.
- Uploads folder will have the uploaded images(which are already tested).
- Sample\_images will have the images which are used to test or upload.
- Training folder contains the trained model file.