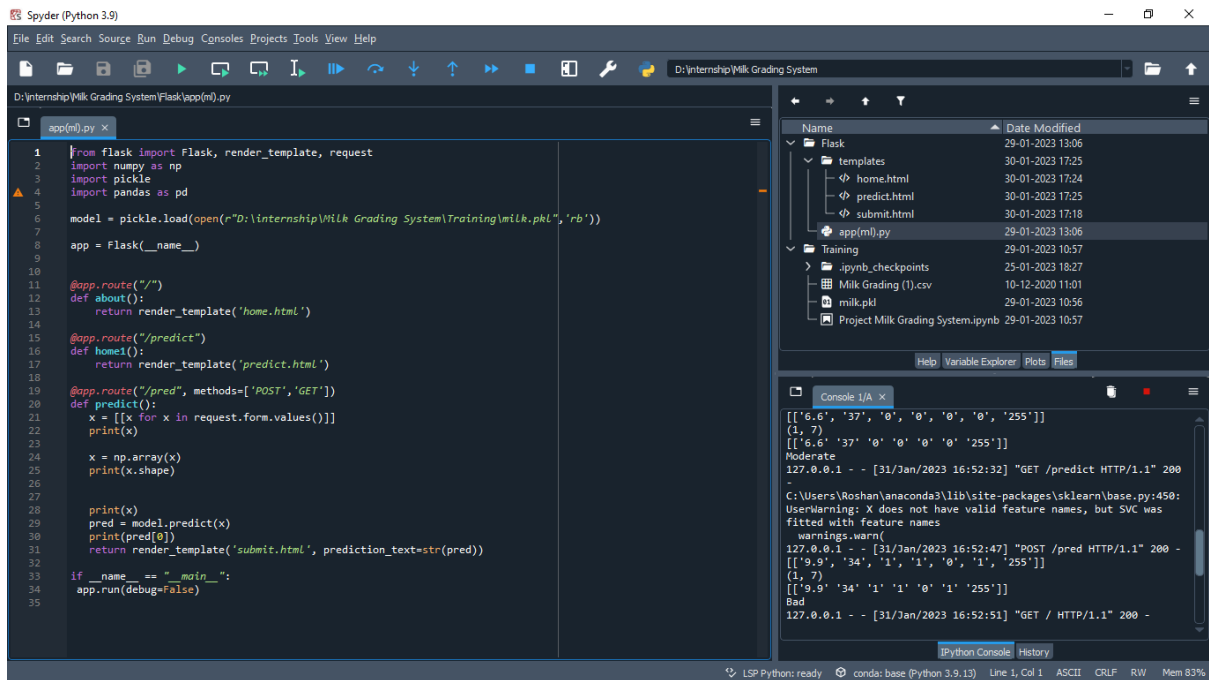


Spyder interface for app(ml).py



The screenshot shows the Spyder Python IDE interface. The main editor displays the `app(ml).py` file, which is a Flask application. The file explorer on the right shows the project structure, including the `templates` folder and the `app(ml).py` file. The IPython console at the bottom shows the output of the application, including a warning about feature names and a prediction result.

```
1 from flask import Flask, render_template, request
2 import numpy as np
3 import pickle
4 import pandas as pd
5
6 model = pickle.load(open(r"D:\Internship\Milk Grading System\Training\milk.pkl", 'rb'))
7
8 app = Flask(__name__)
9
10
11 @app.route("/")
12 def about():
13     return render_template('home.html')
14
15 @app.route("/predict")
16 def home1():
17     return render_template('predict.html')
18
19 @app.route("/pred", methods=['POST', 'GET'])
20 def predict():
21     x = [[x for x in request.form.values()]]
22     print(x)
23
24     x = np.array(x)
25     print(x.shape)
26
27
28     print(x)
29     pred = model.predict(x)
30     print(pred[0])
31     return render_template('submit.html', prediction_text=str(pred))
32
33 if __name__ == "__main__":
34     app.run(debug=False)
35
```

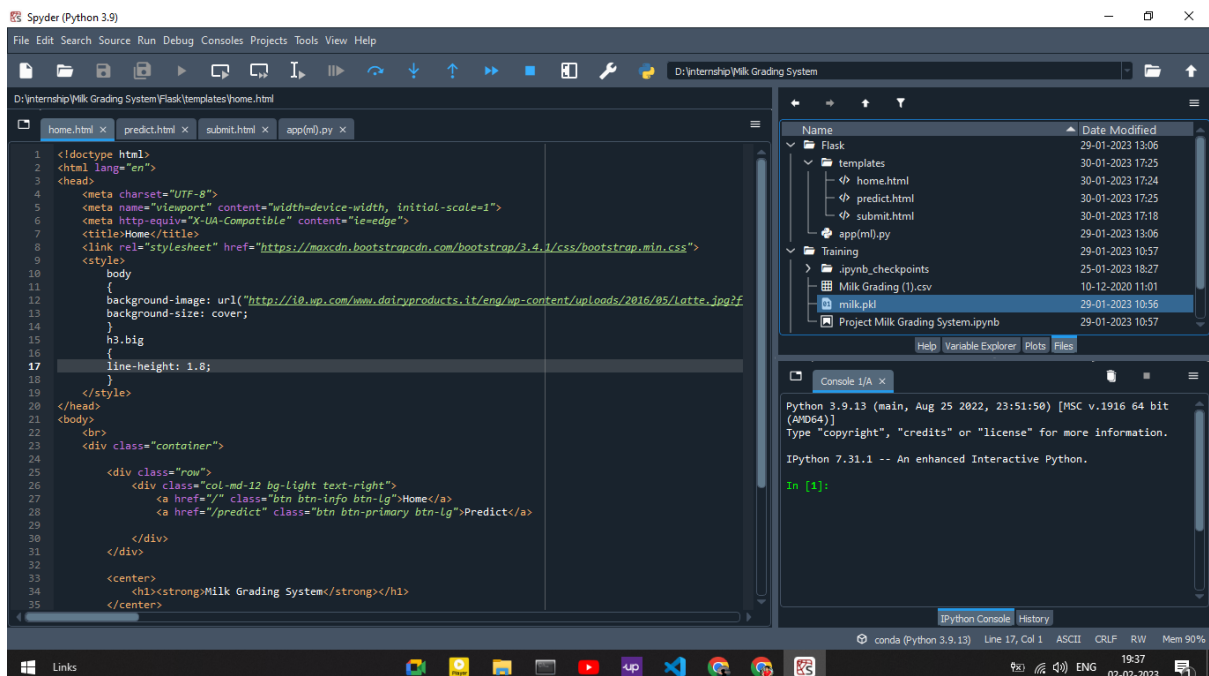
File Explorer:

- Flask
 - templates
 - home.html
 - predict.html
 - submit.html
 - app(ml).py
- Training
 - .ipynb_checkpoints
 - Milk Grading (1).csv
 - milk.pkl
 - Project Milk Grading System.ipynb

Console 1/A X:

```
[[['6.6', '37', '0', '0', '0', '0', '255']]
(1, 7)
[[['6.6', '37', '0', '0', '0', '0', '255']]
Moderate
127.0.0.1 -- [31/Jan/2023 16:52:32] "GET /predict HTTP/1.1" 200
C:\Users\Roshan\anaconda3\lib\site-packages\sklearn\base.py:450:
UserWarning: X does not have valid feature names, but SVC was
fitted with feature names
  warnings.warn(
127.0.0.1 -- [31/Jan/2023 16:52:47] "POST /pred HTTP/1.1" 200 -
[[['9.9', '34', '1', '1', '0', '1', '255']]
(1, 7)
[[['9.9', '34', '1', '1', '0', '1', '255']]
Bad
127.0.0.1 -- [31/Jan/2023 16:52:51] "GET / HTTP/1.1" 200 -
```

Spyder interface for Home.html



The screenshot shows the Spyder Python IDE interface. The main editor displays the `home.html` file, which is an HTML template. The file explorer on the right shows the project structure, including the `templates` folder and the `home.html` file. The IPython console at the bottom shows the output of the application, including a warning about feature names and a prediction result.

```
1 <!doctype html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1">
6     <meta http-equiv="X-UA-Compatible" content="ie=edge">
7     <title>Home</title>
8     <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
9     <style>
10     {
11         background-image: url("http://i0.wp.com/www.dairyproducts.it/eng/wp-content/uploads/2016/05/Latte.jpg?f");
12         background-size: cover;
13     }
14     h3.big
15     {
16         line-height: 1.8;
17     }
18 </style>
19 </head>
20 <body>
21 <div class="container">
22 <div class="row">
23 <div class="col-md-12 bg-light text-right">
24 <a href="/" class="btn btn-info btn-lg">Home</a>
25 <a href="/predict" class="btn btn-primary btn-lg">Predict</a>
26 </div>
27 </div>
28 <div class="text-center">
29 <h1><strong>Milk Grading System</strong></h1>
30 </div>
31 </body>
32 </html>
33
```

File Explorer:

- Flask
 - templates
 - home.html
 - predict.html
 - submit.html
 - app(ml).py
- Training
 - .ipynb_checkpoints
 - Milk Grading (1).csv
 - milk.pkl
 - Project Milk Grading System.ipynb

Console 1/A X:

```
Python 3.9.13 (main, Aug 25 2022, 23:51:50) [MSC v.1916 64 bit
(AP64)]
Type "copyright", "credits" or "license" for more information.

IPython 7.31.1 -- An enhanced Interactive Python.

In [1]:
```

The screenshot displays the Spyder Python IDE interface. The main editor window shows the code for a web form named 'Milk Grading System'. The code is written in HTML and JavaScript, using Bootstrap classes for styling. The form includes input fields for pH, Temperature, Taste, Odor, and Fat, each with a corresponding label and a placeholder. The pH input has a range from 3 to 10. The Temperature input has a placeholder 'Temperature'. The Taste input has a placeholder 'Taste'. The Odor input has a placeholder 'Odor'. The Fat input has a placeholder 'Fat' and a required attribute 'required'. The form is submitted to the '/pred' endpoint using the POST method.

The file explorer on the right shows the project structure, including the 'Flask' folder, 'templates' folder, and 'app(mil).py' file. The console window at the bottom shows the IPython 3.9.13 environment, indicating that the code is running in a Jupyter Notebook context.

The screenshot displays the Spyder Python IDE interface. The main editor window shows the HTML file 'submit.html' with the following content:

```

4 <meta charset="UTF-8">
5 <title>Output</title>
6 <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.1/css/bootstrap.min.css">
7 <style>
8     body
9     {
10         background-image: url("http://i0.wp.com/www.dairyproducts.it/wp-content/uploads/2016/05/Latte.jpg?f");
11         background-size: cover;
12     }
13     h3.big
14     {
15         line-height: 1.8;
16     }
17 </style>
18 </head>
19 <body>
20 <br>
21 <div class="container">
22
23     <div class="row">
24         <div class="col-md-12 bg-light text-right">
25             <a href="/" class="btn btn-info btn-lg">Home</a>
26             <a href="/predict" class="btn btn-primary btn-lg">Predict</a>
27         </div>
28     </div>
29
30     <br>
31     <h1><strong>Milk Grading System</strong></h1><br>
32     <h3>
33         The predicted grade for the milk is {{prediction_text}}
34     </h3>
35 </div>
36 </body>
37 </html>

```

The file explorer on the right shows the project structure:

- Flask
 - templates
 - home.html
 - predict.html
 - submit.html
 - app(ml).py
- Training
 - ipynb_checkpoints
 - Milk Grading (1).csv
 - milk.pkl
 - Project Milk Grading System.ipynb

The console at the bottom shows the Python 3.9.13 environment and the IPython prompt:

```

Python 3.9.13 (main, Aug 25 2022, 23:51:50) [MSC v.1916 64 bit (AMD64)]
Type "copyright", "credits" or "license()" for more information.

IPython 7.31.1 -- An enhanced Interactive Python.

In [1]:

```

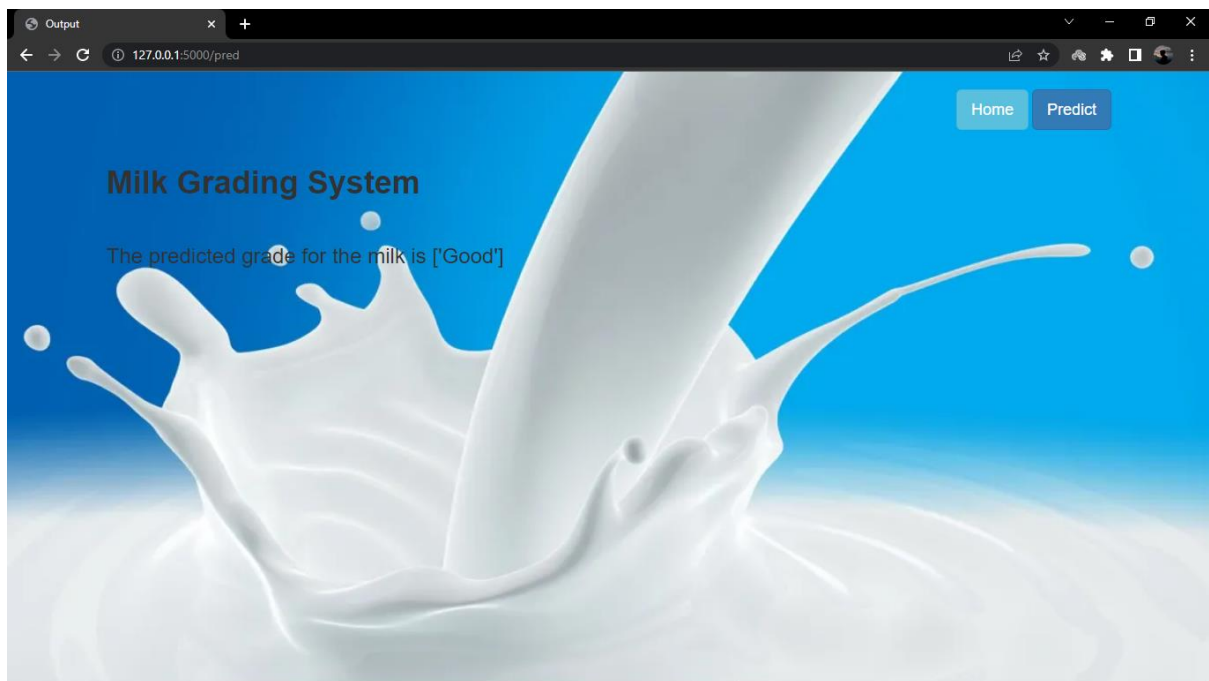
Home page for Milk Grading System



Predict 1 page for Milk Grading System



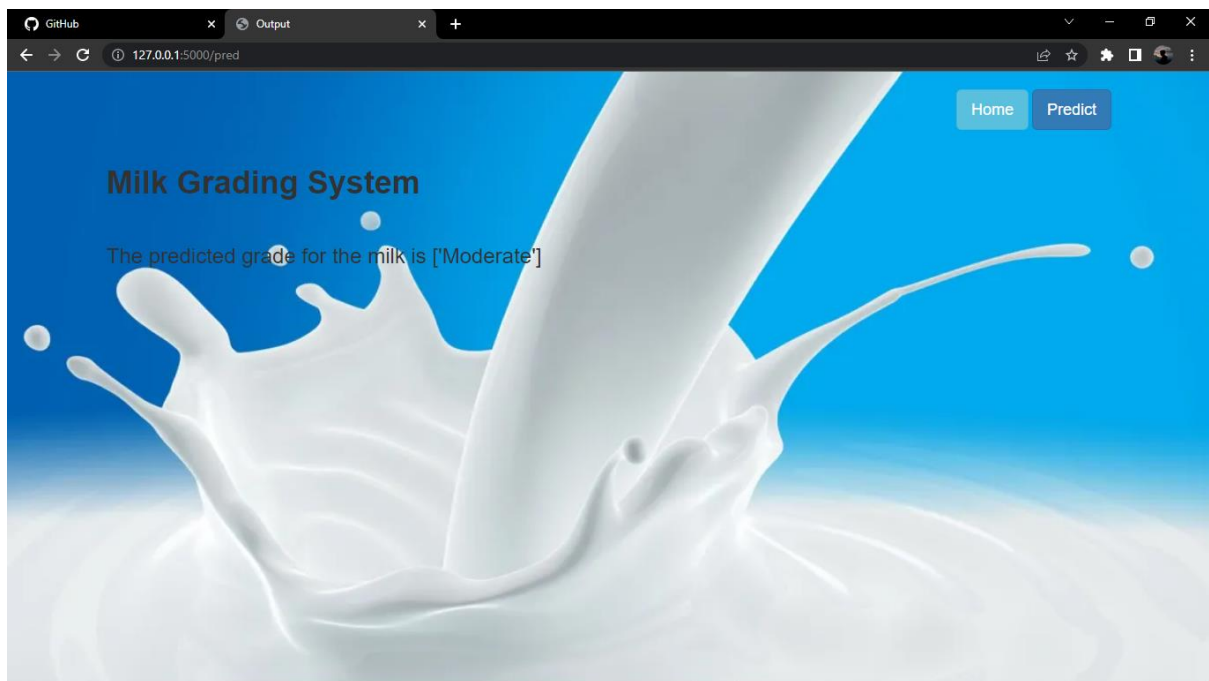
Output 1 page for Milk Grading System



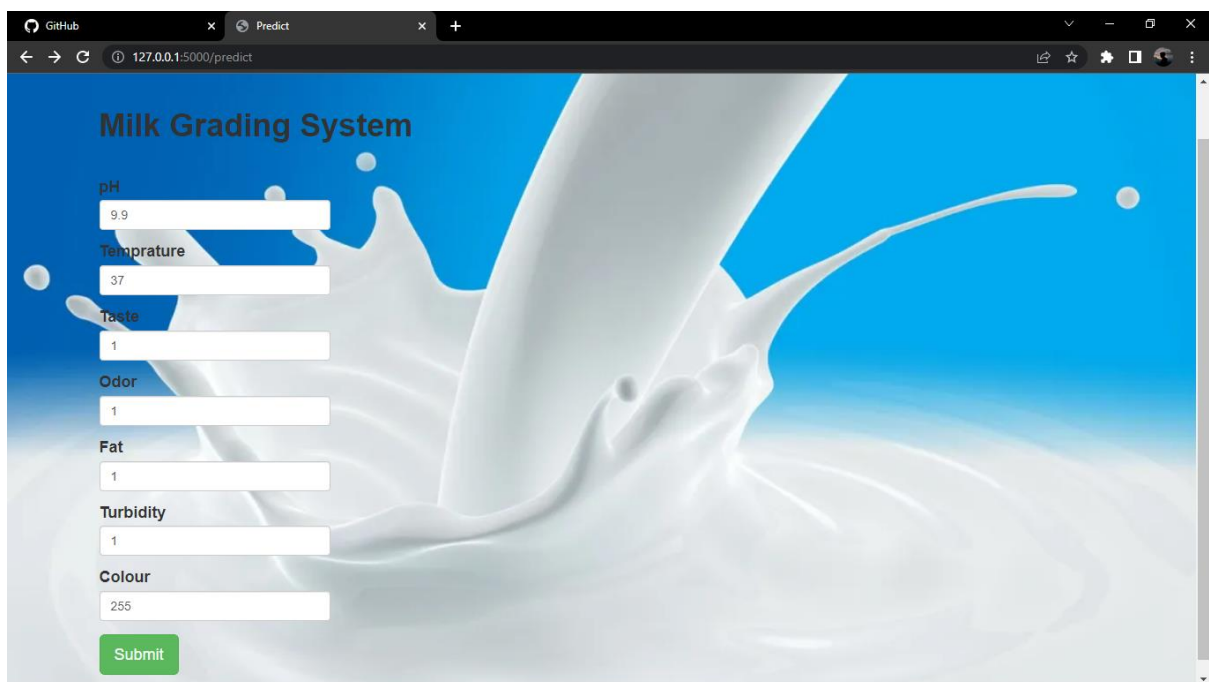
Predict 2 page for Milk Grading System



Output 2 page for Milk Grading System



Predict 3 page for Milk Grading System



Output 3 page for Milk Grading System

