

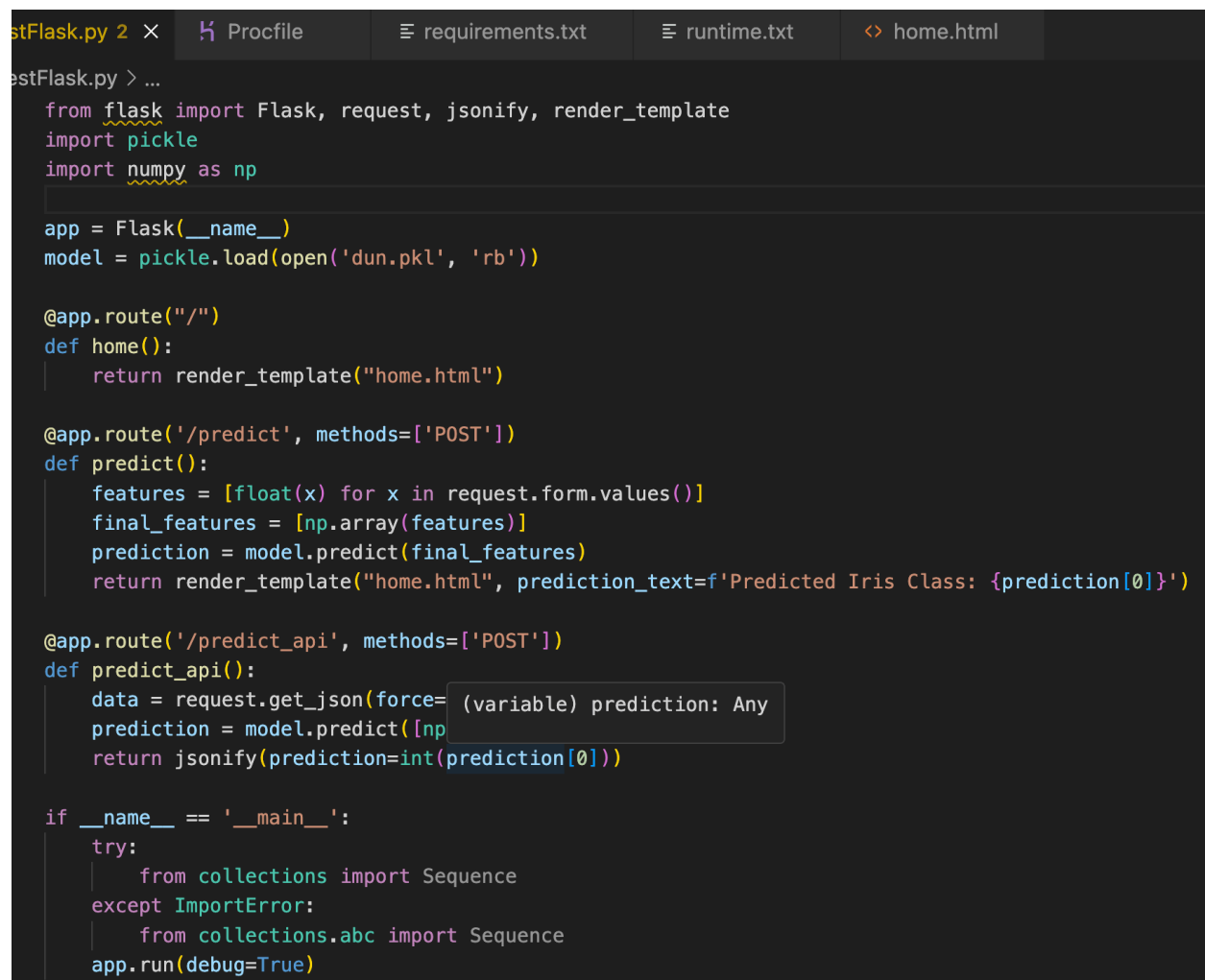
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Batch code -LISUM32.

Submission date – 04/16/2024

Submitted to – Data Glacier

Deployment –



```
stFlask.py 2 ×  Procfile  requirements.txt  runtime.txt  <> home.html
estFlask.py > ...
from flask import Flask, request, jsonify, render_template
import pickle
import numpy as np

app = Flask(__name__)
model = pickle.load(open('dun.pkl', 'rb'))

@app.route("/")
def home():
    return render_template("home.html")

@app.route('/predict', methods=['POST'])
def predict():
    features = [float(x) for x in request.form.values()]
    final_features = [np.array(features)]
    prediction = model.predict(final_features)
    return render_template("home.html", prediction_text=f'Predicted Iris Class: {prediction[0]}')

@app.route('/predict_api', methods=['POST'])
def predict_api():
    data = request.get_json(force=True)
    prediction = model.predict([np.array(list(data.values()))])
    return jsonify(prediction=int(prediction[0]))

if __name__ == '__main__':
    try:
        from collections import Sequence
    except ImportError:
        from collections.abc import Sequence
    app.run(debug=True)
```

This is my testFlask.py code, from this code I have fetch the details of the web Brower from html file.

```
stFlask.py 2  Procfile  requirements.txt  runtime.txt  <> home.h
lates > <> home.html > html > body
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Model Deployment</title>
</head>
<body>
  <h1>Model Deployment</h1>
  <form action="/predict" method="post">
    <input type="number" name="feature1" placeholder="Enter feature 1">
    <input type="number" name="feature2" placeholder="Enter feature 2">
    <input type="number" name="feature3" placeholder="Enter feature 3">
    <input type="number" name="feature4" placeholder="Enter feature 4">
    <button type="submit">Predict</button>
  </form>
  {% if prediction_text %}
    <p>Prediction: {{ prediction_text }}</p>
  {% endif %}
</body>
</html>
```

This is my HTML file.

```
runtime.txt
1  python-3.9.13
2  
```

Thiis my runtime text.

Procfile

```
1 web: gunicorn testFlask:app
```

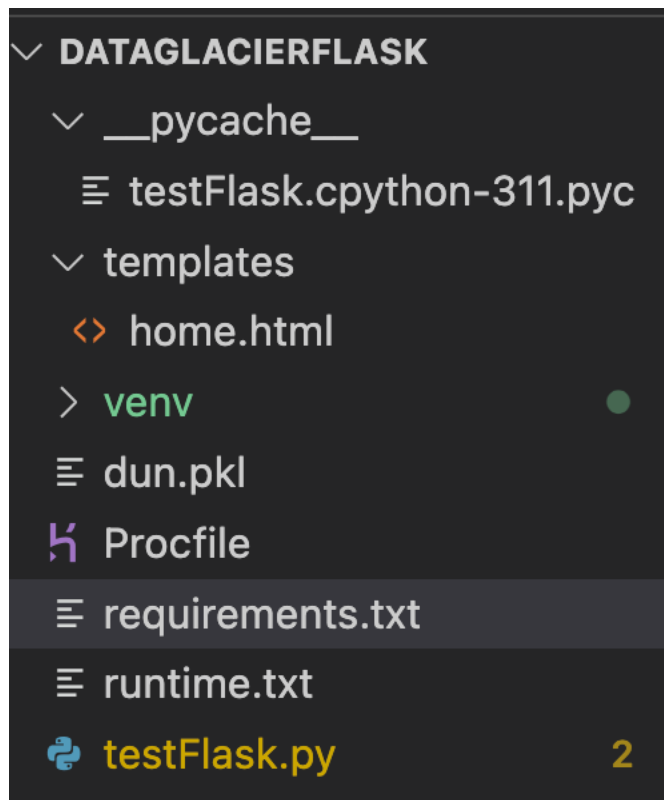
This is Procfile.

requirements.txt

```
1 Flask==2.0.2
2 numpy==1.21.2
3 scikit-learn==0.24.2
4 gunicorn==20.1.0
5 werkzeug==2.0.2
```

This is requirements text file. Imported all the library which I want.

This all are my code, and they are arranging in this manner.



After running the code testFlask.py got a url link which is:

```
Instead:
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
127.0.0.1 - - [15/May/2024 23:02:48] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [15/May/2024 23:03:00] "POST /predict HTTP/1.1" 200 -
127.0.0.1 - - [15/May/2024 23:06:08] "POST /predict HTTP/1.1" 200 -
/usr/local/bin/python3 /Users/vedantpramodwagh/Desktop/DataGlacierFlask/testFlask.p
127.0.0.1 - - [16/May/2024 13:51:21] "GET / HTTP/1.1" 200 -
□
```

This is the web page I received.

Model Deployment

<input type="text" value="Enter feature 1"/>	<input type="text" value="Enter feature 2"/>	<input type="text" value="Enter feature 3"/>	<input type="text" value="Enter feature 4"/>	<input type="button" value="Predict"/>
--	--	--	--	--

After this I download Heroku and connect that to my GitHub link.



Heroku Git
Use Heroku CLI



GitHub
Connected 



Container Registry
Use Heroku CLI

Then deploy the branch.

Deploy a GitHub branch

This will deploy the current state of the branch you specify below. [Learn more.](#)

Choose a branch to deploy

 main



Deploy Branch

Receive code from GitHub